

Should questions arise during the processing of this application please contact:
Steve Hannula ERO Resources Corp. (208) 373-7983

RECEIVED

JAN 29 2008

**WATER RESOURCES
WESTERN REGION**

**STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES**

**APPLICATION FOR TRANSFER OF WATER RIGHT
PART 1**

Name of applicant Harris Family Limited Partnership Phone (208) 344-1131

Post Office address 4940 E. Mill Station Dr, Boise, ID 83716

A. Purpose of Transfer

1. ☒ Change point of diversion ☐ Add diversion point(s) ☐ Change place of use
☐ Change nature of use ☐ Change period of use ☐ Other _____
2. Describe the reason for the proposed changes To move the point of diversion from an existing well that is no longer owned by the applicant to a series of ponds that intercepts ground water and an existing well.

B. DESCRIPTION OF RIGHT(S) OR PORTION THEREOF, AFTER THE REQUESTED CHANGE

1. Right Number	Priority	Amount (cfs/ac-ft)	Nature of Use	Period of Use
<u>63-2973</u>	<u>12-28-1953</u>	<u>0.42 cfs</u>	<u>Irrigation</u>	<u>3/1 to 11/15</u>
<u>63-7103</u>	<u>6-25-1968</u>	<u>1.2 cfs</u>	<u>Irrigation</u>	<u>4/1 to 11/1</u>

NOTE: Irrigation is the listed use on the license 63-2973, but will be changed to include mitigation following an administrative change in lieu of transfer resulting from a mitigation plan submitted in January 2008.

2. Total amount of water being transferred 1.62 cubic feet per second and/or _____ acre-feet per annum.
3. Source of water Ground water tributary to N/A
4. Point(s) of Diversion:

Lot	1/4	1/4	1/4	Sec	Twp	Rge	County	Local name for diversion
		SW	SE	19	3N	3E	Ada	Irrigation Pond
		SW	SE	19	3N	3E	Ada	Detention Pond 1
		NE	SW	19	3N	3E	Ada	Detention Pond 2
		NE	SW	20	3N	3E	Ada	Existing well

5. Lands irrigated or place of use: **(NO CHANGE)**

Twp	Rge	Sec	NE 1/4				NW 1/4				SW 1/4				SE 1/4				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
3N	3E	19									4			0.5	18		15.7	32.5	70.7
		20									7	24	38	20					89
		29					16.7	34	38	17.3	19	19	2	8					154
		30	27	7.3		7													41.3

Total acres 355

Superseded

PART 1

6. General Information:

- a. Description of diversion system Shallow pond excavated to below ground water level. Lift pump will pump water from pond to pressurized irrigation system. Existing well has a submersible pump.
- b. Are the lands from which you propose to transfer the water right subject to any liens, deeds of trust, mortgages, or contracts? ____ Yes X No. If yes, provide a notarized statement from the holder of the lien, deed of trust, mortgage or contract agreeing to the proposed changes.
- c. Describe the affect on the land now irrigated if the place of use is changed pursuant to this transfer: No change to the Place of Use
- d. Remarks: See Attachment 1 for justification that the new points of diversion are tapping the same water source as the original point of diversion. See Figures 1 and 2 for location of project and location of the proposed points of diversion.

ACTION OF THE DIRECTOR, DEPARTMENT OF WATER RESOURCES

This is to certify that I have examined Application for Transfer of Water Rights No. _____
And said application is hereby _____, subject to the following limitations and conditions:

Witness my hand this _____ day of _____, 20 _____.

For the Director

**STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES**

APPLICATION FOR TRANSFER OF WATER RIGHT

PART 2

(Attach one copy for each right)

A. DESCRIPTION OF RIGHT AS RECORDED

1. Right evidenced by:

- a. Decree No. _____ Decreed to _____
in case of _____ vs. _____
dated _____ in _____ county of _____
- b. License No. 63-2973 issued by the Idaho Department of Water Resources.
- c. Claim No. _____ on file with the Idaho Department of Water Resources.
- d. Transfer No. _____ which produced this right.

2. Attach copy of last year's tax notice for the property to which the water right is appurtenant or other documents which show ownership. Label document as attachment A. Check appropriate box below:

☐ Tax Notice ☐ Warranty Deed ☐ Other _____

3. Source of water _____

Entire Water Right Will Be Changed

4. Date of priority _____

5. Water is used for the following purpose:

Amount _____ for _____ purposes from _____ to _____
(cfs/ac-ft)

Amount _____ for _____ purposes from _____ to _____
(cfs/ac-ft)

Amount _____ for _____ purposes from _____ to _____
(cfs/ac-ft)

6. Total amount of water under right _____ cubic feet per second and/or _____ acre-feet per annum.

7. Point(s) of Diversion:

Lot	1/4	1/4	1/4	Sec	Twp	Rge	County	Local name for diversion

8. Lands irrigated or place of use:

Twp	Rge	Sec	NE 1/4				NW 1/4				SW 1/4				SE 1/4				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	

Total acres _____

9. Describe any other water rights used for the same purpose as described above 63-7103, 63-365, 63-8627

PART 2 (63-2973)

10. To your knowledge, has any portion of this water right undergone a period of five or more consecutive years of non-use?
NO If yes, describe _____

B. DESCRIPTION OF PORTION OF RIGHT BEING TRANSFERRED

(If the entire right is to be changed by the applicant, omit part B and C.)

1. Amount _____ for _____ purposes from _____ to _____
 (cfs/ac-ft)
 Amount _____ for _____ purposes from _____ to _____
 (cfs/ac-ft)
 Amount _____ for _____ purposes from _____ to _____
 (cfs/ac-ft)

2. Point(s) of Diversion:

Lot	¼	¼	¼	Sec	Twp	Rge	County	Local name for diversion

3. Lands irrigated or place of use:

Twp	Rge	Sec	NE ¼				NW ¼				SW ¼				SE ¼				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	

Total acres _____

C. DESCRIPTION OF UNCHANGED PORTION OF RIGHT (omit if there is no change)

1. Amount _____ for _____ purposes from _____ to _____
 (cfs/ac-ft)
 Amount _____ for _____ purposes from _____ to _____
 (cfs/ac-ft)
 Amount _____ for _____ purposes from _____ to _____
 (cfs/ac-ft)

2. Point(s) of Diversion:

Lot	¼	¼	¼	Sec	Twp	Rge	County	Local name for diversion

3. Lands irrigated or place of use:

Twp	Rge	Sec	NE ¼				NW ¼				SW ¼				SE ¼				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	

Total acres _____

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

APPLICATION FOR TRANSFER OF WATER RIGHT

PART 2

(Attach one copy for each right)

A. DESCRIPTION OF RIGHT AS RECORDED

1. Right evidenced by:

- a. Decree No. _____ Decreed to _____
in case of _____ vs. _____
dated _____ in _____ county of _____
- b. License No. 63-7103 issued by the Idaho Department of Water Resources.
- c. Claim No. _____ on file with the Idaho Department of Water Resources.
- d. Transfer No. _____ which produced this right.

2. Attach copy of last year's tax notice for the property to which the water right is appurtenant or other documents which show ownership. Label document as attachment A. Check appropriate box below:

☐ Tax Notice ☐ Warranty Deed ☐ Other _____

3. Source of water _____ tributary to _____

4. Date of priority _____

5. Water is used for the following purpose:

Amount _____ for _____ purposes from _____ to _____
(cfs/ac-ft)

Amount _____ from _____ to _____
(cfs/ac-ft)

Amount _____ from _____ to _____
(cfs/ac-ft)

Entire Water Right Will Be Changed

6. Total amount of water under right _____ cubic feet per second and/or _____ acre-feet per annum.

7. Point(s) of Diversion:

Lot	¼	¼	¼	Sec	Twp	Rge	County	Local name for diversion

8. Lands irrigated or place of use:

Twp	Rge	Sec	NE ¼				NW ¼				SW ¼				SE ¼				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	

Total acres _____

9. Describe any other water rights used for the same purpose as described above 63-2973, 63-365, 63-8627

PART 2 (63-7103)

10. To your knowledge, has any portion of this water right undergone a period of five or more consecutive years of non-use?

NO If yes, describe _____

B. DESCRIPTION OF PORTION OF RIGHT BEING TRANSFERRED*(If the entire right is to be changed by the applicant, omit part B and C.)*

1. Amount _____ for _____ purposes from _____ to _____
 (cfs/ac-ft)
 Amount _____ for _____ purposes from _____ to _____
 (cfs/ac-ft)
 Amount _____ for _____ purposes from _____ to _____
 (cfs/ac-ft)

2. Point(s) of Diversion:

Lot	¼	¼	¼	Sec	Twp	Rge	County	Local name for diversion

3. Lands irrigated or place of use:

Twp	Rge	Sec	NE ¼				NW ¼				SW ¼				SE ¼				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	

Total acres _____

C. DESCRIPTION OF UNCHANGED PORTION OF RIGHT (omit if there is no change)

1. Amount _____ for _____ purposes from _____ to _____
 (cfs/ac-ft)
 Amount _____ for _____ purposes from _____ to _____
 (cfs/ac-ft)
 Amount _____ for _____ purposes from _____ to _____
 (cfs/ac-ft)

2. Point(s) of Diversion:

Lot	¼	¼	¼	Sec	Twp	Rge	County	Local name for diversion

3. Lands irrigated or place of use:

Twp	Rge	Sec	NE ¼				NW ¼				SW ¼				SE ¼				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	

Total acres _____

PART 3**B. CHANGES IN NATURE OF USE**

1.	<u>New Nature of Use</u>	<u>Amount</u> (cfs/ac-ft)	<u>Hours/days/year</u>	<u>Period of Use</u>
	_____	_____	_____	_____ to _____
	_____	_____	_____	_____ to _____

2. Quantity and quality of return flows and location of discharge:

3. Describe effects on other water uses resulting from the proposed change:

I hereby assert that no one will be injured by such change and that the change does not constitute an enlargement in use of the original right. The information contained in this application is true to the best of my knowledge.

I understand that any willful misrepresentations made in this application may result in voiding its approval.

Leticia Benhaila

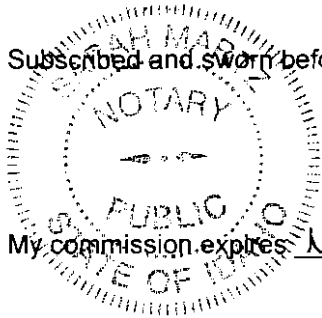
(Signature of Applicant)

Subscribed and sworn before me this 3 day of January, 20 08

Sarah M. [Signature]

(Notary Public)

My commission expires November 10, 2011

**FOR DEPARTMENT USE ONLY**

Transfer contains _____ pages and _____ attachments

Received by DB for G.V.O. Date 1-29-08 Protest filed by _____

Prelim. Check by _____ Fee \$290.00

Receipted by 40036113 Date Jan 29, 2008

Published in _____ Copies of protest forwarded by _____

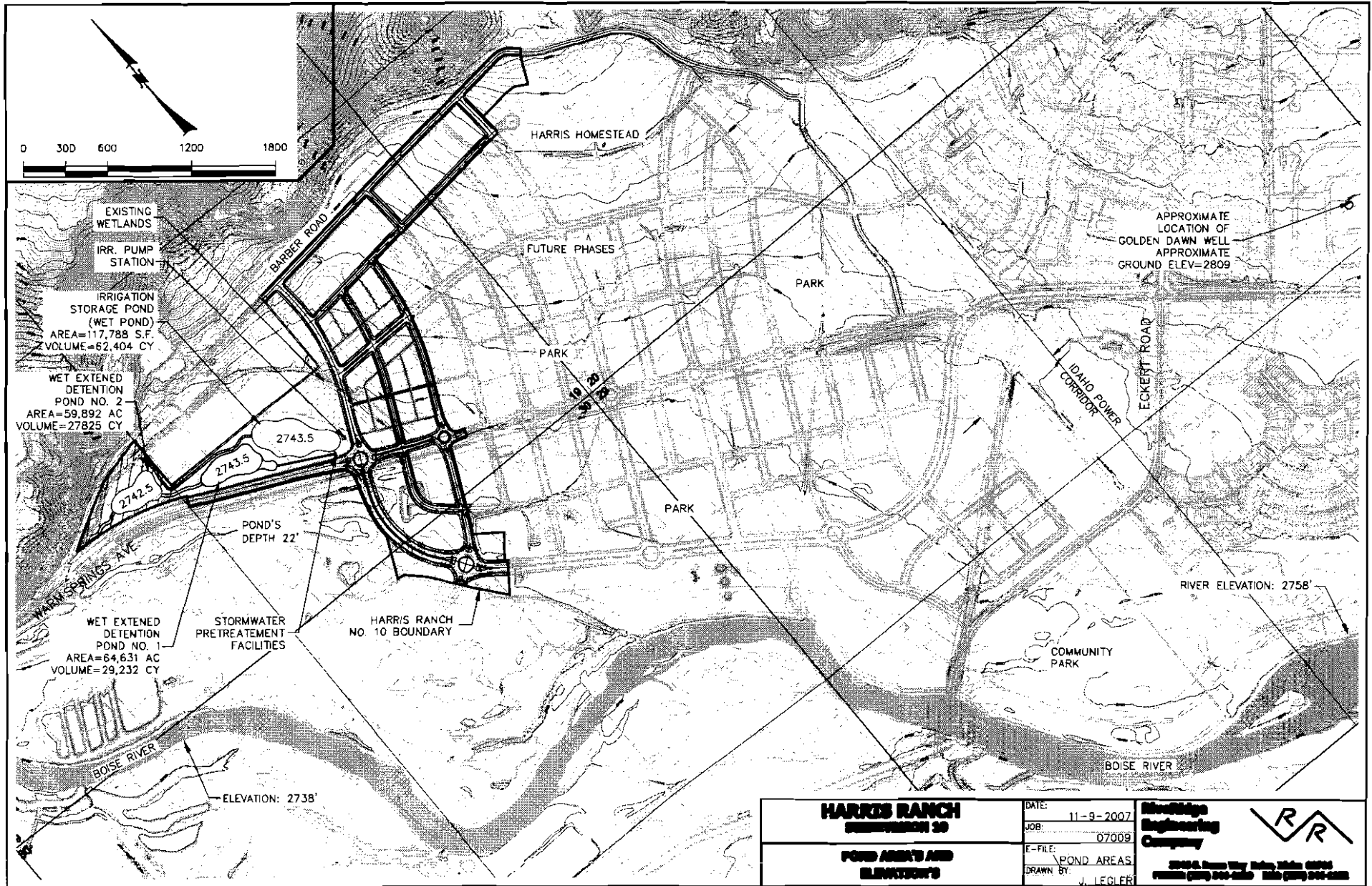
Pub. Dates _____ Hearing held by _____ Date _____

Watermaster recommendation requested on _____ Recommended for ☐ approval ☐ denial

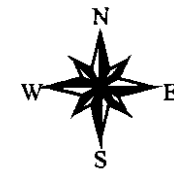
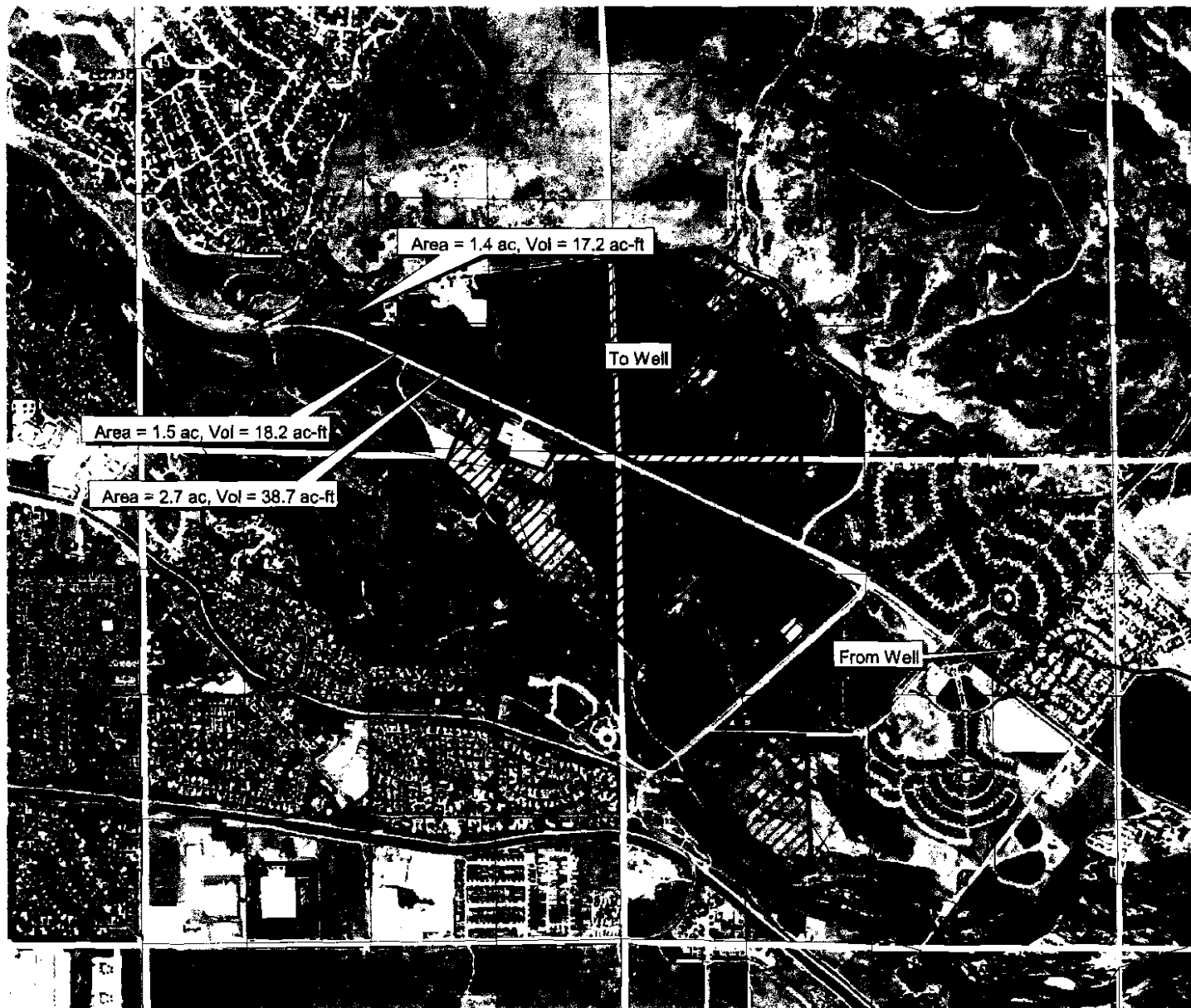
_____ received _____ by _____

Copy of transfer sent to lien holder _____

Figure 1 Proposed Ponds on Harris Ranch (T3N, R3E, Ada County)



**Figure 2 Harris Family Ltd Partnership Points of Diversion
(T3N, R3E, Ada County)**



- Existing Well
- Ponds
- ▤ Penitentiary Canal
- ▲ Ground Water Well
- ▨ IDWR Recommended PPU for 63-2973 and 63-7103
- QQ Sections

0.25 0 0.25 0.5 0.75 1 Miles

Prepared by ERO Resources
3314 Grace St
Boise, ID 83703
(208) 373-7983

ATTACHMENT 1

HYDROLOGIC CONNECTION BETWEEN GOLDEN DAWN WELL, SHALLOW GROUND WATER, AND THE BOISE RIVER

Introduction

Water right nos. 63-2973 and 63-7103 are owned by the Harris Family Limited Partnership (Harris Family LP), and authorize the use of ground water to irrigate 24 and 80.5 acres of land, respectively. Each water right currently identifies the same point of diversion (PD) in the SENE Sec 29, T3N, R3E, which is in the Golden Dawn Trailer Estates along Warm Springs Avenue in Ada County. The well is better known as the Golden Dawn Well (Figure 1).

In a recent agreement between the Harris Family LP and the Harris Ranch Homeowners Association (HRHOA), the Golden Dawn well was given to the HRHOA for use in their irrigation system. Harris Family LP retained rights 63-2973 and 63-7103. The Harris Family LP no longer has access to that well.

The development plans of Harris Ranch propose to excavate three ponds that will intercept ground water. Two ponds will be in the SWSE Section 19 and one will be in the NESW Section 19 (Figure 1 and 2). All three ponds will have evaporation losses that need to be mitigated. To authorize the ponds to store water, Harris Family LP will file an Application for Permit. The mitigation plan that accompanies the Application for Permit refers to the following analysis as to why the ground water rights offered for mitigation are appropriate.

Secondly, in a completely separate submittal, the Harris Family LP will file an Application for Transfer to change the PD listed on 63-2973 and 63-7103 to one pond proposed in the SWSE Section 19. Idaho code 42-222 allows a PD to be changed provided that no other water rights are injured and other criteria are satisfied. To successfully change the PD from the Golden Dawn Well to the pond, the Harris Family LP will need to demonstrate that the Golden Dawn Well and the pond divert from the same ground water source.

The following report identifies the available data and the basis for the conclusion that the water pumped from the Golden Dawn well is the same water as would be exposed by the proposed shallow ponds.

Elevations

As shown in Figure 1, the topography of the Harris Ranch property gently slopes south toward the Boise River across relatively flat pasture. The slope is steeper at the base of the foothills and flattens near the river. Standard practice is to assume that the ground water gradient will follow topography, which is confirmed by the static water elevations described below.

Appendix 1 contains four driller reports of wells located in Section 29 T3N, R3E. IDWR has record of other wells located in the same section, but those cannot be correlated to existing wells, suggesting that either the driller reports did not accurately locate the well, or that the wells no longer exist. However, a driller report is included for a well labeled

as the Barber Trailer Court that is listed in the NENW Section 29, but could not be found. This particular driller report is included because by its name and listed location is assumed to be in close proximity to the Golden Dawn Well, and also that it was completed in the same time period and of similar construction as the Golden Dawn Well. The Golden Dawn Well (identified as Barber Trailer Court) is located in the SENE and was completed on May 2, 1967 to a total depth of 101 feet, similar to the Barber Trailer Court Well in the NENW.

The surface elevation of the Golden Dawn Well is approximately 2809 feet (Figure 1). No static water level is identified for the Golden Dawn Well. However, the driller report lists the first occurrence of water at approximately 46 feet, which puts the water elevation at approximately 2763 ft. The elevation of the Boise River at the closest distance from the Golden Dawn Well is approximately 2758, which is about 5 feet lower than the static water level in the Golden Dawn Well, suggesting a ground water gradient toward the river, consistent with the surface topography.

Similarly, the Idaho Power well located in the SENW Section 29 is 57 feet deep and has a static water depth of 6 feet. The surface elevation at the well is approximately 2763 ft. The static water elevation is therefore approximately 2757 ft. The elevation of the Boise River at the closest distance from the Idaho Power well is approximately 2750, which is about 7 feet lower than the static water level in the well. This head difference supports the idea that the direction of ground water flow is toward the river.

The first water encountered in the Barber Trailer Court irrigation well is approximately 46 feet with a final static level of 40 feet. The lithology from 30 to 100 feet is listed as sand and gravel, suggesting that the first water and the final static should coincide and that the 6 feet of difference is likely a function of drilling conditions and not necessarily an indication of a confined aquifer.

The proposed ponds have a land surface elevation of approximately 2743 feet. The ponds are proposed to be 20 to 25 feet deep, with a bottom elevation of approximately 2718 to 2723 feet. The water level at the pond area is about 4 to 5 feet below land, at an elevation of approximately 2739. The elevation of the Boise River southwest of the proposed ponds is approximately 2738 feet, which is consistent with the water level in the test pits. The correlation of water elevations between the Boise River, the test pits, and the Golden Dawn Well demonstrate that they form a contiguous surface.

Lithology

The lithology described in the driller report for the Idaho Power well lists gravel and boulders down to 57 feet. The water bearing zone in the Golden Dawn well (46 to 101 feet) is described as sand and gravel. The clay listed in the Golden Dawn well is only in the upper 30 feet of the borehole and is not interbedded with the gravel or in the water bearing interval. The driller report for the Producers Lumber well located in the SENE Section 29 has gravel listed from 0 to 42 feet.

Strata Inc. ("Strata") conducted a field investigation consisting of shallow test pits and boreholes, located throughout the development (Appendix 2). Strata concluded that the soil conditions in the proposed pond area consist of relatively granular soil with poorly-graded sand or gravel present at depths of less than 4 feet. However, in other test pits north of Warm Springs Avenue, Strata observed clayey or silty soil extending to 12 feet. A borehole located near the proposed pond area encountered clayey sand and sand in the top 7.5 feet, consistent with the test pit descriptions, and then poorly graded gravel from 7.5 to 26.5 feet where the borehole was terminated. Water level in the borehole was at 6 feet below ground surface.

Strata's observations show the near surface lithology is clay rich, but below 7 feet, poorly graded gravels are encountered to at least 26 feet. This gravel layer will be exposed during the excavation of the ponds and is therefore the water bearing interval.

The presence of sand, gravel and boulders throughout the water bearing zones in the wells and in the shallow excavations, without the presence of any interbedded clay layers is evidence that the local aquifer is unconfined and can be correlated across the Harris property.

Other Considerations

Because the Golden Dawn Well and the ponds tap the same water bearing gravel, moving the PD from the well to the pond will have no net impact to the aquifer.

The distance that the well and pond are offset from the Boise River is roughly the same. Therefore, there should be no significant difference in the timing of impact to the Boise River due to pumping at the pond or pumping at the well. Similarly, the mitigative effects of retiring acres from irrigation by ground water will be timely to offset the evaporative losses from the ponds.

The proposed ponds are approximately 1 mile northwest of the Golden Dawn Well. By relocating the PD from the Golden Dawn Well to the pond, the increased separation distance works to the benefit of the water users near the Golden Dawn Well. However, there are a number of domestic wells in the south half of Section 19 that will then be within a ½ mile radius of the proposed ponds. The drawdown due to the evaporative losses from all three ponds and pumping from one of the ponds may have an effect on the nearby wells. The effect is expected to be negligible because the water bearing interval is composed of transmissive sands and gravel and is in direct hydraulic connection to the Boise River. Furthermore, the ponds will be no greater than 25 feet deep, therefore limiting the available drawdown.

Conclusions

The water elevations determined from topographic maps, the depth to water in the Golden Dawn Well and the Idaho Power well, and the subsurface investigation by Strata demonstrate that the ground water gradient is sloping toward the Boise River, consistent with the surface topography.

The lithology listed for the wells in the vicinity of the Golden Dawn Well and the shallow excavations on the Harris Ranch property demonstrates that the aquifer is comprised of sand, gravel, and boulders, with no interbedded clay layers. The depth to water, correlation of lithology, and the observation that the first water encountered matches the final static level leads to the conclusion that the shallow aquifer is unconfined.

The correlation between the static water levels in the wells, shallow excavations and the Boise River along with the contiguous presence of the gravel layer demonstrates that the water bearing interval in the Golden Dawn Well is hydraulically connected to and is the same water interval as what would be exposed in the proposed ponds. The water bearing interval is hydraulically connected to the Boise River.

Moving the PD from the Golden Dawn Well to one of the proposed ponds will not injure nearby ground water or Boise River water users. Because the pond is in the same source as the ground water well, there will be a zero net effect to the aquifer. The similar offset distance from the river suggests that the timing of impacts will be the same for either pumping from the Golden Dawn Well or from the pond. Similarly, mitigative effects of retiring acres from irrigation will enjoy the same timing.

Appendix 1

Driller Reports from Section 29, T3N, R3E, Ada County

REPORT OF WELL DRILLER
State of Idaho

RECEIVED
APR 2 1968

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

WELL OWNER:

Name Dallas Harris
Address Barbara Trailer Court
Boise, Idaho

Owner's Permit No. 63-2103

NATURE OF WORK (check): Replacement well ☐
New well ☒ Deepened ☐ Abandoned ☐

Water is to be used for: Domestic Purposes

METHOD OF CONSTRUCTION: Rotary ☐ Cable ☒
Dug ☐ Other ☐

(explain)
CASING SCHEDULE: Threaded ☐ Welded ☒

12 "Diam. from 0 ft. to 100 ft.

"Diam. from ft. to ft.

"Diam. from ft. to ft.

"Diam. from ft. to ft.

Thickness of casing: 250 Material:

Steel ☒ concrete ☐ wood ☐ other ☐

(explain)
PERFORATED? Yes ☒ No ☐ Type of
perforator used: Miller Knife

Size of perforations: 4 " by 10 "

~~8~~ perforations from 81 ft. to 96 ft.

perforations from ft. to ft.

perforations from ft. to ft.

perforations from ft. to ft.

WAS SCREEN INSTALLED? Yes ☐ No ☒

Manufacturer's name

Type Model No.

Diam. Slot size Set from ft. to ft.

Diam. Slot size Set from ft. to ft.

CONSTRUCTION: Well gravel packed? Yes ☐

No. ☐ size of gravel Gravel

placed from ft. to ft. Surface seal

provided? Yes ☐ No ☐ To what depth?

 ft. Material used in seal:

Did any strata contain unusable water? Yes ☐

No. ☒ Type of water:

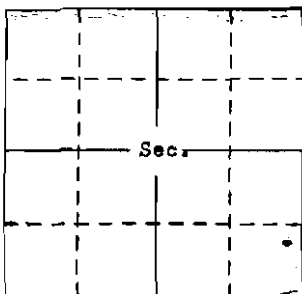
Depth of strata ft. Method of sealing

strata off:

Surface casing used? Yes ☐ No. ☒

Cemented in place? Yes ☒ No ☐

Locate well in section



LOCATION OF WELL: County Ada
SE 1/4 NE 1/4 Sec. 29 T. 3 N. R. 30 E

Use other side for additional remarks

Size of drilled hole: 12 " Total
depth of well: 101 Standing water
level below ground: Temp.
Fahr. ° Test delivery: gpm
or cfs Pump? ☒ Bail ☐
Size of pump and motor used to make test:

Length of time of test: Hrs. Min.

Drawdown: ft. Artesian pressure: ft.

above land surface Give flow cfs

or gpm. Shutoff pressure:

Controlled by: Valve ☐ Cap ☐ Plug ☐

No control ☐ Does well leak around casing?

Yes ☐ No ☒

DEPTH MATERIAL WATER

FROM TO YES OR NO

FEET FEET

0 1 Top Soil No

1 15 Brown Clay No

15 30 Reddish Brown Clay No

30 40 Hard Grey Gravel No

40 46 Sand & Gravel No

46 47 Sand & Gravel Yes

47 101 Sand & Gravel Yes

601354

Work started:

Work finished: May 2/67

Well Driller's Statement: This well was
drilled under my supervision and this report
is true to the best of my knowledge.

Name: Merriell L. Lusk

Address: 2500 W Boise Ave

Signed by: Donald S. Drake

License No. 4 Date:

USGS

REPORT OF WELL DRILLER
State of Idaho

RECEIVED
JUL 27 1967

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

WELL OWNER: Dallas Harris
Name
Address Bauman Trailer Court
Borise Idaho
Owner's Permit No. _____
NATURE OF WORK (check): Replacement well ☐
New well ☒ Deepened ☐ Abandoned ☐
Water is to be used for: Irrigation
METHOD OF CONSTRUCTION: Rotary ☐ Cable ☒
Dug ☐ Other _____

(explain)
CASING SCHEDULE: Threaded _____ Welded ☒
12" Diam. from 0 ft. to 100 ft.
"Diam. from _____ ft. to _____ ft.
"Diam. from _____ ft. to _____ ft.
"Diam. from _____ ft. to _____ ft.
Thickness of casing: 2.80 WALL Material: _____
Steel ☒ concrete ☐ wood ☐ other ☐

(explain)
PERFORATED? Yes ☒ No ☐ Type of
perforator used: Milly Knife
Chute Slot
Size of perforations: 1 1/2" by 3/8"
perforations from 87 ft. to 46 ft.
perforations from _____ ft. to _____ ft.
perforations from _____ ft. to _____ ft.
perforations from _____ ft. to _____ ft.
WAS SCREEN INSTALLED? Yes ☐ No ☒
Manufacturer's name _____

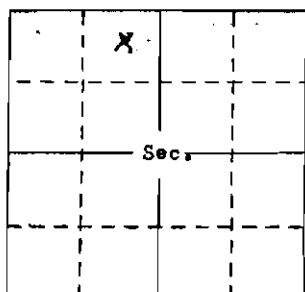
Type _____ Model No. _____
Diam. _____ Slot size _____ Set from _____ ft. to _____ ft.
Diam. _____ Slot size _____ Set from _____ ft. to _____ ft.

CONSTRUCTION: Well gravel packed? Yes ☐
No ☐ size of gravel _____ Gravel
placed from _____ ft. to _____ ft. Surface seal
provided? Yes ☐ No ☒ To what depth?
_____ ft. Material used in seal: _____

Did any strata contain unusable water? Yes ☐
No ☒ Type of water: _____
Depth of strata _____ ft. Method of sealing
strata off: _____

Surface casing used? Yes ☐ No ☒
Cemented in place? Yes ☐ No ☐

Locate well in section



LOCATION OF WELL: County ADA
NE 1/4 NW 1/4 Sec. 29 T. 3 N S R. 3 E W

Use other side for additional remarks

Size of drilled hole: 12" Total
depth of well: 101 Standing water
level below ground: 40 Temp. _____
Fahr. _____ Test delivery: _____ gpm
or _____ cfs Pump? ☐ Bail ☐
Size of pump and motor used to make test:
The well tested by B & M Equipment Co.
Length of time of test: _____ Hrs. Min. _____
Drawdown: _____ ft. Artesian pressure: ft. _____
above land surface Give flow _____ cfs
or _____ gpm. Shutoff pressure: _____
Controlled by: Valve ☐ Cap ☐ Plug ☐
No control ☐ Does well leak around casing?
Yes ☐ No ☒

DEPTH	MATERIAL	WATER
FROM	TO	YES OR NO
FEET	FEET	
0'	1'	top Soil
1'	15'	fine Clay (few boulders)
15'	20'	reddish fine Clay (very drilling)
20'	46'	Sand & gravel
46'	47'	Coarse Sand & Gravel (SEEP)
47'	57'	fine Muddy Sand & Gravel
57'	67'	Sand & Gravel
67'	77'	Coarse Sand (few boulders)
77'	87'	Heavy Gravel (Coarse Sand)
87'	97'	Coarse Sand & Gravel
97'	100'	Gravel
100'	101'	Heavy Sandy Clay

001319

Work started: March 28, 1967
Work finished: May 2, 1967
Well Driller's Statement: This well was
drilled under my supervision and this report
is true to the best of my knowledge.
Name: Don Drake
Address: 2500 W Boise Ave
Signed by: Jesus Hill
License No. 231 Date: July 13-67

USGS

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 Producers Lumber Co.Address Barber, Idaho

Owner's Permit No. _____

7. WATER LEVEL

Static water level 5 feet below land surfaceFlowing? ☐ 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 ☐ Bailer ☒ Other

Discharge G.P.M.

25

Draw Down

Hours Pumped

2

3. PROPOSED USE

☐ Domestic ☐ Irrigation ☐ Test☐ Municipal ☒ Industrial ☐ Stock

4. METHOD DRILLED

☒ Cable ☐ Rotary ☐ Dug ☐ Other

5. WELL CONSTRUCTION

Diameter of hole 6 inches Total depth 42 feetCasing schedule: ☒ Steel ☐ Concrete

Thickness	Diameter	From	To
<u>0.25</u> inches	<u>6</u> inches	<u>1</u> feet	<u>42</u> feet
_____ inches	_____ inches	_____ feet	_____ feet
_____ inches	_____ inches	_____ feet	_____ feet
_____ inches	_____ inches	_____ feet	_____ feet
_____ inches	_____ inches	_____ feet	_____ feet

Was a packer or seal used? ☐ Yes ☒ NoPerforated? ☐ Yes ☒ NoHow 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

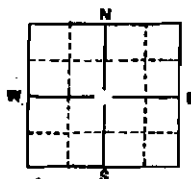
Gravel packed? ☐ Yes ☒ No Size of gravel _____

Placed from _____ feet to _____ feet

Surface seal? ☒ Yes ☐ No To what depth _____ feetMaterial used in seal ☐ Cement grout ☒ Pudding clay

6. LOCATION OF WELL

Sketch map location must agree with written location.

County AdaSE 1/4 NE 1/4 Sec. 29, T. 3 N, R. 3 E

10.

Work started 6-69 finished 6-69

11. DRILLER'S CERTIFICATION

This well was drilled under my supervision and this report is
true to the best of my knowledge.Russel Cove Drilling Co. 65
Driller's or Firm's Name NumberBoise, Idaho
AddressRussel Cove
Signed By Date

835617

Inspected by _____
Twp _____ Rge _____ Sec _____
_____ 1/4 _____ 1/4 _____ 1/4
Lat: : : Long: : :

Other IDWR No.

State ID Zip 83707

Sketch map location must agree with written location.



Twp. 3 North ☒ or South ☐
 Rge. 3 East ☒ or West ☐
 Sec. 29 1/4 SE 1/4 NW 1/4
 Gov't Lot _____ 40 acres 160 acres
 County Ada
 Lat: _____ Long: _____
 Address of Well Site 4501 E. Warm Springs
 Rd Eckert Sub. City Boise
 (Give at least name of road + Distance to Road or Landmark)
 Lt. _____ Blk. _____ Sub. Name _____

☐ Domestic ☐ Municipal ☐ Monitor ☒ Irrigation
☐ Thermal ☐ Injection ☐ Other

☒ New Well ☐ Modify ☐ Abandonment ☐ Other☒ Air Rotary ☐ Cable ☐ Mud Rotary ☐ Other

Seal/Filter Pack			AMOUNT	METHOD
Material	From	To	Sacks or Pounds	
Bentonite	0	18	400 lbs	Overbore

Was drive shoe seal tested? ☐ Y ☒ N How?

Diameter	From	To	Gauge	Material	Casing	liner	Welded	Threaded
6"	+2	48	.250	Steel	☒	☐	☒	☐
					☐	☐	☐	☐
					☐	☐	☐	☐

Length of Tailpipe 0

Johnson Stainless Steel

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
47	57	.020		5"	SS	☐	☒
						☐	☐
						☐	☐

devices: Cap

Yield gal./min.	Drawdown	Pumping Level	Time
50	40	40	2 Hrs.

Depth first Water Encounter 6

Water

[illegible]

(Sign once if Firm Official & Operator)

Appendix 2

Strata's Subsurface Investigation Report