

RECEIVED

FORM 1111 MAY 14 2014

Ident. No. 63-33895

AMENDED
WATER RESOURCES
WESTERN REGIONSTATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
APPLICATION FOR PERMIT
To appropriate the public waters of the State of Idaho

1. Name of applicant(s) Greg Troost Phone (208) 722-7325
 Name connector (check one): ☐ and ☐ or ☐ and/or
 Mailing address 30540 Sabin City Parma
 State ID Zip 83660 Email _____

2. Source of water supply Ground water which is a tributary of _____

3. Location of point(s) of diversion:

TWP	RGE	SEC	Govt Lot	¼	¼	¼	County	Source	Local name or tag #
4N	5W	21		NW	SE	SW	Canyon	Ground water	

4. Water will be used for the following purposes:

Amount 5.57 cfs for irrigation purposes from 3/1 to 11/15 (both dates inclusive)
 (cfs or acre-feet per year)

Amount _____ for _____ purposes from _____ to _____ (both dates inclusive)
 (cfs or acre-feet per year)

Amount _____ for _____ purposes from _____ to _____ (both dates inclusive)
 (cfs or acre-feet per year)

Amount _____ for _____ purposes from _____ to _____ (both dates inclusive)
 (cfs or acre-feet per year)

5. Total quantity to be appropriated is (a) 5.57 cubic feet per second (cfs) and/or (b) _____ acre feet per year (af).

6. Proposed diverting works:

a. Describe type and size of devices used to divert water from the source. New well to be constructed

b. Height of storage dam _____ feet; active reservoir capacity _____ acre-feet; total reservoir capacity _____ acre-feet. If the reservoir will be filled more than once each year, describe the refill plan in item 11. For dams 10 feet or more in height OR reservoirs with a total storage capacity of 50 acre-feet or more, submit a separate Application for Construction or Enlargement of a New or Existing Dam. Application required? ☐ Yes ☐ No

c. Proposed well diameter is 24 inches; proposed depth of well is 100 feet.

d. Is ground water with a temperature of greater than 85°F being sought? ☐ Yes ☒ No

e. If well is already drilled, when? _____; drilling firm _____;
 well was drilled for (well owner) _____; Drilling Permit No. _____.

7. Description of proposed uses (if irrigation only, go to item 8):

a. Hydropower; show total feet of head and proposed capacity in kW. _____

b. Stockwatering; list number and kind of livestock. _____

c. Municipal; complete and attach the Municipal Water Right Application Checklist.

d. Domestic; show number of households _____

e. Other; describe fully. _____

8. Description of place of use:

- a. If water is for irrigation, indicate acreage in each subdivision in the tabulation below.
- b. If water is used for other purposes, place a symbol of the use (example: D for Domestic) in the corresponding place of use below.
See instructions for standard symbols.

TWP	RGE	SEC	NE				NW				SW				SE				TOTALS
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
4N	5W	12													35				35
		20															38	30	68
		21									39	39	39	34		21	35		207
		22							38										38
		23																38	38

Total number of acres to be irrigated: 819 (Continued on page 3)

9. Describe any other water rights used for the same purposes as described above. Include water delivered by a municipality, canal company, or irrigation district. If this application is for domestic purposes, do you intend to use this water, water from another source, or both, to irrigate your lawn, garden, and/or landscaping?

Surface water supplied from a variety of sources, this ground water right is supplemental only.

10. a. Who owns the property at the point of diversion? Applicant
- b. Who owns the land to be irrigated or place of use? Applicant
- c. If the property is owned by a person other than the applicant, describe the arrangement enabling the applicant to make this filing:

11. Describe your proposal in narrative form, and provide additional explanation for any of the items above. Attach additional pages if necessary.

Applicant seeks a supplemental ground water for shoulder season use and to supplement when surface water sources are reduced by limited surface water supply. Water bearing zone to be appropriated is from 20 to 100 feet.

12. Time required for completion of works and application of water to proposed beneficial use is 5 years (minimum 1 year).

13. **MAP OF PROPOSED PROJECT REQUIRED** - Attach an 8½" x 11" map clearly identifying the proposed point of diversion, place of use, section #, township & range. A photocopy of a USGS 7.5 minute topographic quadrangle map is preferred.

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 rejection of the application or cancellation of an approval.

Signature of Applicant

Signature of Applicant

Print Name (and title, if applicable)

Print Name (and title, if applicable)

For Department Use:

Received by KW Date 5/14/2014 Time — Preliminary check by KW
 Fee \$ 450.00 Receipted by RS Receipt No. W041774 Date 1-16-14

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

Ident. No. 63-33895

Point of Diversion/Place of Use Supplement

Attachment to: ☒ Application for Permit to Appropriate Water ☐ Application for Transfer** ☐ Adjudication Claim
☐ Application for Amendment of Permit ☐ Beneficial Use Field Report ☐ Statutory Claim

Location of points of diversion (POD):

New POD?	Twp	Rge	Sec	Govt Lot	1/4	1/4	1/4	County	Source	Local name or well/diversion tag #
☐ Yes										
☐ Yes										
☐ Yes										
☐ Yes										
☐ Yes										
☐ Yes										
☐ Yes										
☐ Yes										
☐ Yes										
☐ Yes										
☐ Yes										

Description of place of use (POU):

- a. If water is for irrigation, indicate acreage in each subdivision in the tabulation below.
b. If water is used for other purposes, place a symbol of the use (example: D for Domestic) in the corresponding place of use below.

TWP	RGE	SEC	NE				NW				SW				SE				TOTALS
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
4N	5W	25					35	34											69
		26										30	40						70
		27								38									38
		28															35		35
		29	11	18		36													65
		33		40			36												76
		35									40			40					80

Greg Troost Application for Permit



Greg Troost Application for Permit



Based on 2011 NAIP Photography

Prepared for Greg Troost by ERO 1-2014

63-33895

RECEIVED

JAN 16 2014

WATER RESOURCES
WESTERN REGIONSTATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
APPLICATION FOR PERMIT
To appropriate the public waters of the State of Idaho

1. Name of applicant(s) Greg Troost Phone (208) 722-7325
 Name connector (check one): ☐ and ☐ or ☐ and/or
 Mailing address 30540 Sabin City Parma
 State ID Zip 83660 Email _____

2. Source of water supply Ground Water which is a tributary of _____

3. Location of point(s) of diversion:

TWP	RGE	SEC	Govt Lot	1/4	1/4	1/4	County	Source	Local name or tag #
4N	5W	21		NW	SE	SW	Canyon	Ground Water	

4. Water will be used for the following purposes:

Amount 5.57 cfs for Irrigation purposes from 3/1 to 11/15 (both dates inclusive)
 (cfs or acre-feet per year)

Amount _____ for _____ purposes from _____ to _____ (both dates inclusive)
 (cfs or acre-feet per year)

Amount _____ for _____ purposes from _____ to _____ (both dates inclusive)
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Amount _____ for _____ purposes from _____ to _____ (both dates inclusive)
 (cfs or acre-feet per year)

5. Total quantity to be appropriated is (a) 5.57 cubic feet per second (cfs) and/or (b) _____ acre feet per year (af).

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a. Describe type and size of devices used to divert water from the source. New well to be constructed

b. Height of storage dam _____ feet; active reservoir capacity _____ acre-feet; total reservoir capacity _____ acre-feet. If the reservoir will be filled more than once each year, describe the refill plan in item 11. For dams 10 feet or more in height OR reservoirs with a total storage capacity of 50 acre-feet or more, submit a separate Application for Construction or Enlargement of a New or Existing Dam. Application required? ☐ Yes ☐ No

c. Proposed well diameter is 24 inches; proposed depth of well is 100 feet.

d. Is ground water with a temperature of greater than 85°F being sought? ☐ Yes ☒ No

e. If well is already drilled, when? _____; drilling firm _____;
 well was drilled for (well owner) _____; Drilling Permit No. _____.

7. Description of proposed uses (if irrigation only, go to item 8):

a. Hydropower; show total feet of head and proposed capacity in kW. _____

b. Stockwatering; list number and kind of livestock. _____

c. Municipal; complete and attach the Municipal Water Right Application Checklist.

d. Domestic; show number of households _____

e. Other; describe fully. _____

Superseded by Amended App. of 5/14/14.

8. Description of place of use:

- a. If water is for irrigation, indicate acreage in each subdivision in the tabulation below.
- b. If water is used for other purposes, place a symbol of the use (example: D for Domestic) in the corresponding place of use below.
See instructions for standard symbols.

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			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
4N	5W	12													35				35
		20															38	30	68
		21									39	39	39	34		21	35		207
		22							38										38

Total number of acres to be irrigated: 893

9. Describe any other water rights used for the same purposes as described municipality, canal company, or irrigation district. If this application is for domestic purposes, or both, to irrigate your lawn, garden, and/or landscaping?
Surface water supplied from a variety of sources, this ground water

↑ continued next pg.
-JL

10. a. Who owns the property at the point of diversion? Applicant
- b. Who owns the land to be irrigated or place of use? Applicant
- c. If the property is owned by a person other than the applicant, describe the arrangement enabling the applicant to make this filing:

11. Describe your proposal in narrative form, and provide additional explanation for any of the items above. Attach additional pages if necessary.

Applicant seeks a supplemental ground water right for shoulder season use and to supplement when surface water sources are reduced by limited surface water supply.

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13. **MAP OF PROPOSED PROJECT REQUIRED** - Attach an 8½" x 11" map clearly identifying the proposed point of diversion, place of use, section #, township & range. A photocopy of a USGS 7.5 minute topographic quadrangle map is preferred.

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 rejection of the application or cancellation of an approval.

Signature of Applicant

Signature of Applicant

Print Name (and title, if applicable)

Print Name (and title, if applicable)

For Department Use:

Received by RS Date 1-16-14 Time 11:00 am Preliminary check by _____
Fee \$ 450 Received by RS Receipt No. W041774 Date 1-16-14

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

Ident. No. _____

Point of Diversion/Place of Use Supplement

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☐ Application for Amendment of Permit ☐ Beneficial Use Field Report ☐ Statutory Claim

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New POD?	Twp	Rge	Sec	Govt Lot	¼	¼	¼	County	Source	Local name or well/diversion tag #
☐ Yes										
☐ Yes										
☐ Yes										
☐ Yes										
☐ Yes										
☐ Yes										
☐ Yes										
☐ Yes										
☐ Yes										
☐ Yes										

Description of place of use (POU):

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			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
4N	5W	23																38	38
		25					35	34											69
		26										30	40						70
		27								38									38
		28	39			35											35		109
		29	11	18		36													65
		33		40			36												76
		35									40			40					80



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

June 3, 2014

C. L. "BUTCH" OTTER
Governor

GARY SPACKMAN
Director

MR. & MRS. ANTHONY DE ROSE
27803 LOWER PLEASANT
WILDER ID 83676

Re: Application for Permit No: 63-33895

Dear Interested Party:

The above referenced application may be of interest to you. I would like to inform you that the application has been submitted to the *Idaho Press Tribune* for advertising. I have enclosed a copy of the application for your convenience. This information is also available on our website www.idwr.idaho.gov.

If you desire to file a formal protest against approval of the application, a written protest along with the \$25.00 protest fee must be received in this office by June 23, 2014. A copy of the protest must also be sent to the applicant.

If you have any questions regarding the application, please contact this office at 208-334-2190.

Sincerely,

Rachel Sommer
Administrative Assistant I
Western Regional Office

Enclosures

Sommer, Rachel

From: Sommer, Rachel
Sent: Thursday, May 29, 2014 3:53 PM
To: 'LEGALS@IDAHO PRESS.COM'
Subject: Canyon Legal Ad
Attachments: Canyon Cover Letter.docx; Canyon Legal Ad.docx

Good Afternoon Legal Clerk,

Please see the attached ad for publication on 6/5/2014 & 6/12/2014.

Please confirm these are okay to publish as shown.

Thank you,

Rachel Sommer

Administrative Assistant
Dept. of Water Resources
Western Regional Office
2735 Airport Way, Boise ID 83705
Phone 208-334-2190 | Fax 208-334-2348
Email: rachel.sommer@idwr.idaho.gov

May 29, 2014

LEGAL NOTICE DEPARTMENT
PRESS TRIBUNE
PO BOX 9399
NAMPA, ID 83652

RE: Application For Permit No's: 63-33895, 63-33907

Dear Legal Notice Department:

Please publish the enclosed legal notice on the dates indicated (once a week for two consecutive weekly issues). If you cannot publish the notice on the proposed dates, please contact us immediately.

An affidavit of publication must be submitted to the Department along with the publication bill. Please send the affidavit and bill to this office before 6/23/2014. Your cooperation is appreciated.

Sincerely,

Rachel Sommer
Administrative Assistant

Enclosures

The following applications have been filed to appropriate the public waters of the State of Idaho:

63-33895

GREG TROOST
30540 SABIN RD
PARMA, ID 83660
Point of Diversion SESW S21 T04N R05W CANYON County Source GROUND WATER
Use: IRRIGATION 03/01 to 11/15 5.57 CFS
Total Diversion: 5.57 CFS
Date Filed: 1/16/2014
Place of Use: IRRIGATION
T04N R05W S12 NESE
T04N R05W S20 SWSE SESE
T04N R05W S21 SW(ALL) NWSE SWSE
T04N R05W S22 SWNW
T04N R05W S23 SESE
T04N R05W S25 NENW NWNW
T04N R05W S26 NWSW SWSW
T04N R05W S27 SENW
T04N R05W S28 SESE
T04N R05W S29 NENE L1(NWNE) SENE
T04N R05W S33 NWNE NENW
T04N R05W S35 NESW SESW
Total Acres: 819
Water bearing zone to be appropriated is from 20 to 100 feet.

63-33907

PLACES LLC
PO BOX 300
PARMA, ID 83660
Points of Diversion SWNE SWNW NESW NWSW NESE S5 T05N R05W CANYON County Source UNNAMED DRAIN Tributary SAND
HOLLOW CREEK
Use: IRRIGATION 03/01 to 11/15 5.82 CFS
Total Diversion: 5.82 CFS
Date Filed: 1/29/2014
Place of Use: IRRIGATION
T05N R05W S5 SWNE SENE SWNW SENW NESW NWSW NESE NWSE
Total Acres: 291

Permits will be subject to all prior water rights. For additional information concerning the property location, contact Western Region office at (208) 334-2190; or for a full description of the right(s), please see www.idwr.idaho.gov/apps/ExtSearch/WRFiling.asp. Protests may be submitted based on the criteria of Idaho Code § 42-203A. Any protest against the approval of this application must be filed with the Director, Dept. of Water Resources, Western Region, 2735 Airport Way, Boise ID 83705 together with a protest fee of \$25.00 for each application on or before 6/23/2014. The protestant must also send a copy of the protest to the applicant.

GARY SPACKMAN, Director

Published on 6/5/2014 and 6/12/2014



RECEIVED
MAY 14 2014
WATER RESOURCES
WESTERN REGION

May 12, 2014

Kay Walker
Sr. Water Resource Agent
Idaho Department of Water Resources
2735 Airport Way
Boise, ID 83705-5082

RE: Amended Application for Permit No. 63-33895

Dear Kay:

Enclosed is the signed amended application for Permit No. 63-33895. The water bearing zone statement has been completed under Item 11. Please let me know if you need anything additional.

Thank you.

Yours truly,

A handwritten signature in cursive script that reads "Dave".

David Shaw/pjs

Denver
1842 Clarkson St.
Denver, CO 80218
303.830.1188

Enc.

Durango
1015 1/2 Main Avenue
Durango, CO 81301
970.422.2136

Hotchkiss
P.O. Box 932
161 South 2nd St.
Hotchkiss, CO 81419
970.872.3020

Idaho
4001 East Main Street
Emmett, ID 83617
208.365.7684

Consultants in
Natural Resources



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
Director

May 1, 2014

ERO RESOURCES CORP
ATTN: DAVID SHAW
4001 E MAIN ST
EMMETT ID 83617

Re: Application for Permit No. 63-33895

Dear Mr. Shaw:

We have completed our review of the above referenced application for permit. Pursuant to our prior correspondences, I have prepared an "Amended" Application for Permit for signature. The amended application was prepared to remove the 74 acres from the NE1/4, Section 28, Twp. 4N, Rge. 5W. I was advised that we had to have an amended application to remove those lands. We also need to have the water bearing zone statement completed under Item 11 on the form. Once we receive the signed, amended application we will be able to route this proposal for advertising.

IDWR rules, forms and other information are available on the Internet at www.idwr.idaho.gov. Please feel free to contact me at 208-334-2190 if you need more information. Thank you for your attention to these matters.

Sincerely,

KAY WALKER
Sr. Water Resource Agent

Enclosure

Walker, Kay

From: Dave Shaw [dshaw@eroresources.com]
Sent: Friday, April 11, 2014 3:27 PM
To: Walker, Kay
Subject: RE: Application for Permit 63-33895 - Greg Troost
Attachments: Kay Walker Response 4-11-14.pdf

Kay,

Attached is a response to your March 13, 2014 letter requesting additional information for application for permit 63-33895.

Please let me know if you would like a hard copy and I will be happy to send one to you. Also, if there is any additional information I can provide to you, please let me know.

Thank you Kay,
Dave

David Shaw

ERO Resources Corporation

208.365.7684 dshaw@eroresources.com | www.eroresources.com

From: Walker, Kay [<mailto:Kay.Walker@idwr.idaho.gov>]
Sent: Tuesday, March 18, 2014 9:58 AM
To: Dave Shaw
Cc: Walker, Kay
Subject: RE: Application for Permit 63-33895 - Greg Troost

Hi, Dave!

The taxlot information was last updated in January of 2013 for this area so it may not be as bad as it appears. The lands that are found to be under a different ownership are identified below:

S½SE¼, Sec. 20

N½SW¼, SW¼SW¼, NW¼SE¼, Sec. 21

SW¼NW¼, Sec. 22

W¼SW¼, Sec. 26

E½NE¼, SE¼SE¼, Sec. 28

Portions of NW¼, Sec. 29 ← *should say NE¼, not NW¼ - kw*

NW¼NE¼, NE¼NW¼, Sec. 33

And E½SW¼, Sec. 35

All in Twp. 4N, Rge. 5W

If I can provide more information, please feel free to contact me.

Kay

334-2190

From: Dave Shaw [<mailto:dshaw@eroresources.com>]
Sent: Tuesday, March 18, 2014 8:59 AM
To: Walker, Kay
Subject: Application for Permit 63-33895 - Greg Troost

Good Morning Kay:

In you March 13 letter you noted some of the land in the place of use does not appear to be owned by the applicant. Can you please send me a list of those lands so we can more easily resolve that issue?

Thank you Kay,
Dave

David Shaw

ERO Resources Corporation

Consultants in Natural Resources and the Environment

4001 E Main St | Emmett, ID 83617

208.365.7684

dshaw@eroresources.com | www.eroresources.com

April 11, 2014

Kay Walker
Idaho Department of Water Resources
2735 Airport Way
Boise, ID 83705-5082

RE: Application for Permit No. 63-33895 – Greg Troost

Dear Ms. Walker:

This information is in response to your request dated March 13, 2014 on behalf of Greg Troost. Your letter requested information to meet the requirements of Water Appropriation Rules 40.05.c through 40.05.g. You asked specifically for information regarding Rules 40.05.c.ii, 40.05.c.iii, 40.05.d.i, and 40.05.d.ii. Additionally, you requested information regarding items A. through D. in your letter. Items A. through D. will be covered first. If there are still outstanding information needs after you receive this information, please let me know so the additional information can be collected and provided to you.

A. We need specific information on how the water will be delivered from the well to each of the properties identified as a place of use under this proposal.

The applicant only recently purchased this property and believes there is an existing pressure irrigation system connecting the various parcels. It is the applicant's intent to use the existing system. If some of the parcels do not have an existing connection the applicant can decide if he will add the connection or allow the acres to be removed at the time of license.

B. We found that the land in the E½NE¼ Section 28 already has an existing supplemental water right on it. The water right covering those acres was issued to Richard Owen under Rt. 63-11219. Please advise us, in writing, if you want to remove those 74 acres from the application form.

Yes, those 74 acres were inadvertently included in the application and should be removed. Their removal will not decrease the amount of water applied for but will reduce the acreage applied for to 819 acres.

C. We need to have a water bearing zone to be appropriated since this application falls within Basin 63.

Denver
1842 Clarkson St.
Denver, CO 80218
303.830.1188

Durango
1015 ½ Main Avenue
Durango, CO 81301
970.422.2136

Hotchkiss
P.O. Box 932
161 South 2nd St.
Hotchkiss, CO 81419
970.872.3020

Idaho
4001 East Main Street
Emmett, ID 83617
208.365.7684

www.eroresources.com

Consultants in
Natural Resources
and the Environment

The applicant wants to be able to develop the full depth of the well from the surface seal to the bottom of the well. The well is not proposed to be deeper than 100 feet but if an adequate water supply can be developed with a shallower well the shallower well will be constructed.

✓ **D. While reviewing the place of use locations under this application it was noticed that the county tax lot information shows some of the lands are not owned by the applicant as stated in 10b. Please explain how the applicant has possessory interest in the place of use under this application.**

By email dated March 18, 2014 you provided the list of lands that you were concerned about in item D. above. That list included the following:

S½SE¼ Section 20,
N½SW¼, SW¼SW¼, NW¼SE¼ Section 21,
SW¼NW¼ Section 22,
W½SW¼ Section 26,
E½NE¼, SE¼SE¼ Section 28,
Portions of NW¼ Section 29,
NW¼NE¼, NE¼NW¼ Section 33,
E½SW¼ Section 35 all in Twp 4N Rge 5W

The deed included in Exhibit 1, attached, shows the lands described above were purchased by the applicant in December 2012 with the exception of portions of the NW¼ Section 29. The application does not include any lands in the NW¼ Section 29 but does include lands in the NE¼ Section 29. The lands in the NE¼ Section 29 are also covered by the attached deed.

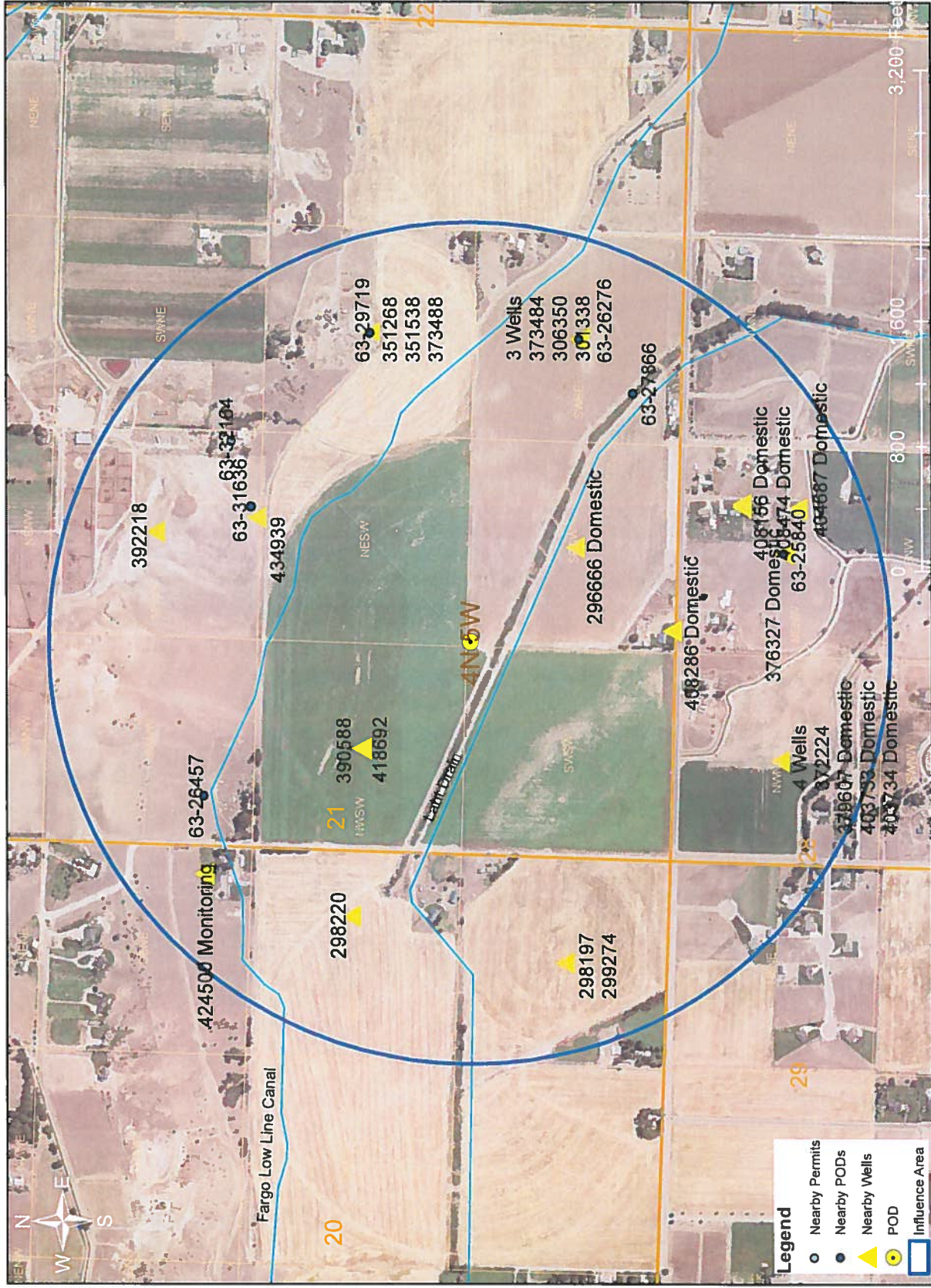
Identified Wells and Springs

The area encompassed within a one-half mile radius of the proposed point of diversion is shown in the attached Figures 1a and 1b identified as Influence Area. Two figures are supplied to show the land use in the area in one figure with an aerial photo background and another figure to make the annotations easier to read.

A search of IDWR's point-of-diversion GIS water right and water right permit data base located 7 wells and no springs within the Influence Area. A search of IDWR's GIS well data base located 24 wells identified with their 6 digit Well ID. A search of IDWR's well log data base showed 34 well logs for wells potentially within the influence area. Since the influence area does not follow sixteenth section boundaries and well logs are located by sixteenth section, some well logs may be for wells within a sixteenth section partially included in the influence area but outside of the one-half mile zone. Copies of the 34 well logs are included in Exhibit 2, attached.

The wells shown by the well GIS layer to be nearest the proposed well appear to be located at the center of the sixteenth section rather than where the well is actually

Greg Troost Application for Permit

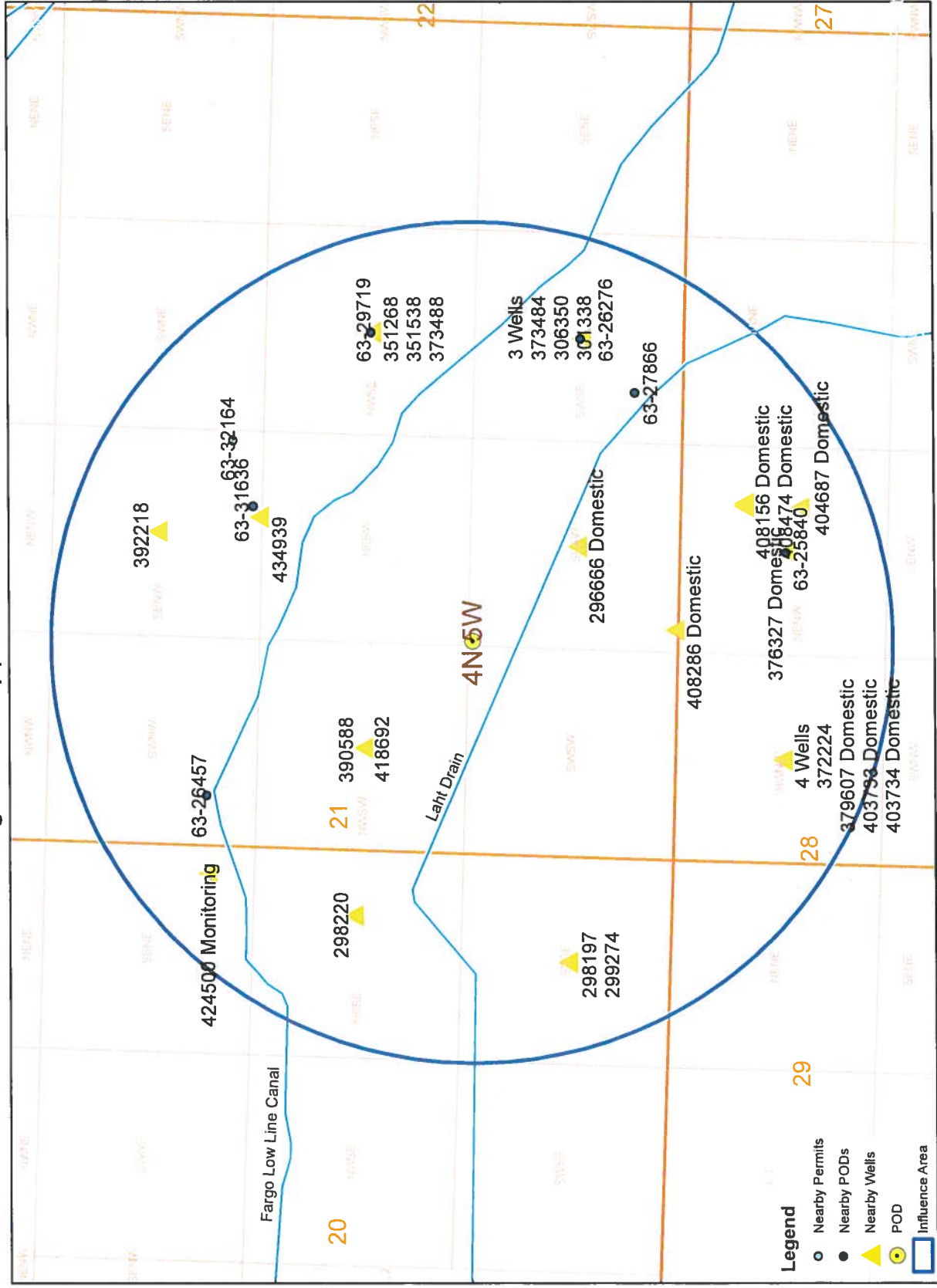


Based on 2011 NAIP Photography

Figure 1a

Prepared for Greg Troost by ERO 4-2014

Greg Troost Application for Permit



Based on 2011 NAIP Photography

Figure 1b

Prepared for Greg Troost by ERO 4-2014

located. This is indicated by the wells appearing to be in the middle of fields owned by the applicant as shown on Figure 1a. This Figure shows the nearest well is about $\frac{1}{4}$ mile from the proposed well.

The well logs show some wells extend to deeper aquifers and will not be impacted by the proposed well that will not seek water below 100 feet in depth. Those wells tapping the shallow sand and gravel aquifer sought by the applicant encounter artesian head allowing the water to rise in the well above the sand and gravel zone. For example, the J&M Cattle well log, tag number D0000726 and included in Exhibit 2, encountered the first water at 45 feet in depth but the water level in the finished well was 15 feet in depth.¹ A 4 hour pump test at 500 gpm from an 8 inch well produced 20 feet of drawdown indicating the water supply was adequate to keep the water level in the well above the zone in which the water was encountered during the pump test.

Water Requirements

The applicant proposes to provide supplemental irrigation water for up to 819 acres of surface water irrigated land with a maximum diversion rate of 5.57 cfs or about 0.007 cfs per acre. Since this is a supplemental well actual use will depend upon the water supply from the surface water source for these lands.

Earlier this year, the Boise Project Board of Control estimated their water delivery for the season would be 1.4 acre-feet per acre at the field headgate. Assuming the 1.4 acre-feet supply is a severe water shortage, the estimated diversion from the proposed well would be about 980 ac-ft based upon the assumptions in Table 1 below to supplement the 1.4 acre-feet to a full water supply. The ground water depletion for this severe water shortage situation would be about 830 ac-ft and the well would need to be used for about 90 days to provide the needed water supply.

¹ The correlation between the 6 digit Well ID numbers in the GIS well data base and displayed on Figures 1a and 1b, and well logs has not been determined. Therefore, the location of the J&M Cattle well can only be determined by the legal description on the well log.

Table 1. Volume per Acre for Selected Crops with 1.4 Ac-Ft Surface Water Supply

Crop ^a	CIR ^b Ac-Ft/Acre	Volume @ 85% Efficiency ^c	Volume of Surface Water ^d	Volume of GW Needed
Alfalfa	2.94	3.46	1.4	2.06
Field Corn	2.06	2.43	1.4	1.03
Small Grain	1.61	1.90	1.4	0.50
Averages	2.20	2.60		1.20

^a Crops are selected based upon typical crops for a dairy. Alfalfa is assumed frequent cuttings and spring grain is used because of a slightly higher CIR.

^b CIR based upon average precipitation deficit from ETIdaho for the Parma AgriMet station.

^c Assumed field efficiency of 85% for sprinkler irrigation, primarily pivots.

^d Early season water supply estimate by the Boise Project Board of Control

Assuming the 819 acres are evenly divided into alfalfa, field corn and spring grain the average water shortage would have been 1.20 acre-feet per acre or about 980 acre-feet.

Since this is a supplemental well there will be years in which no water may be diverted thus an average diversion is difficult to estimate. A worst case water supply may require more than 980 acre-feet per year to be diverted but that quantity of water use is unlikely. The more normal water use will be from zero up to 980 acre-feet per year.

Water Level Hydrographs and Aquifer Characteristics

Water level data for the shallow aquifer are limited in the immediate vicinity of the proposed new well but depth to water data for 3 wells were located. Hydrographs were prepared with these data and are shown in Figure 2. One hydrograph is for the period late 1972 through mid-2010 and 2 of the wells have shorter measurement periods from mid-1991 to mid-2008.

Trendlines were used to estimate water level trends for the period of record of the 3 wells. Both the hydrographs and trendlines indicate relatively stable water level conditions with the existing level of development in the area. The only decline occurred in well 4N5W23CBB1 and is about 0.003 feet per year for the 38 years of record.

A Theis analysis of the expected drawdown for the proposed well is attached as Exhibit 3. This analysis shows a drawdown of about 2 feet at one-half mile after pumping at the full 5.57 cfs for 90 days as could be expected after a serious surface

water shortage. As noted above, diversions from this well will not impact deeper wells because this well proposes to divert only from the shallow aquifer. The drawdowns estimated by the Theis analysis should not adversely impact any shallow wells in the area since they are about one-quarter mile away or further from the proposed well. Any drawdown caused by the proposed well will not cause the shallow wells in the area to be deprived of their water supply given the history of those wells and pump test of the J&M Cattle well.

Summary

1. The wells located within one-half mile of the proposed new well are either diverting water from a deeper aquifer that will not be impacted by the new well or are far enough away they will not be injured by proposed diversions from the new well.
2. The ground water levels in the vicinity of the proposed new well are relatively stable. Given the length on one of the hydrographs, the ground water levels have likely been stable for many years and the water supply is expected to be adequate for the proposed supplemental development.
3. The applicant seeks to develop the entire well profile since the well is intended to only penetrate and develop the shallow sand and gravel aquifer.
4. The Wilder Irrigation District and the Boise Project Board of Control were contacted regarding this proposed ground water development. Neither has expressed concerns about the water development since the proposed well is more than 5 miles from Lake Lowell. The Boise Project Board of Control wants to be certain the well is not located on any canal or drain easement. I will continue to work with the applicant and the Project to be certain the actual well location is not on any Project easement.

Please contact me if you have questions or need additional information regarding this analysis or any other information to allow the application to be processed. Thank you in advance for your consideration.

Yours truly,



David Shaw

Attachments

cc: Greg Troost

Shallow Aquifer Water Surface Elevations

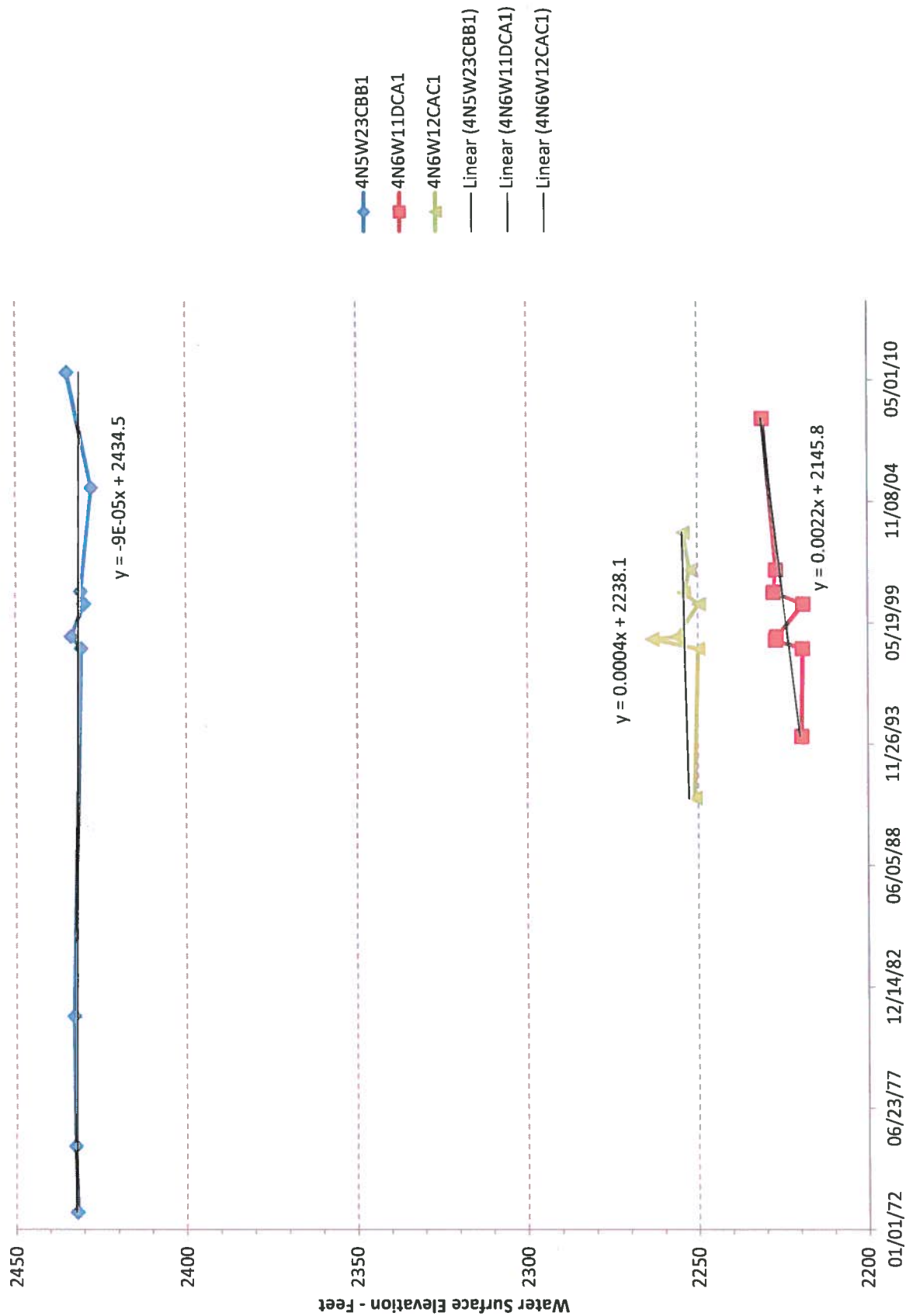


Figure 2

Exhibit 1



610 S. Kimball Avenue
Caldwell, ID 83605

ELECTRONICALLY RECORDED-DO NOT
REMOVE THE COUNTY STAMPED FIRST
PAGE AS IT IS NOW INCORPORATED AS
PART OF THE ORIGINAL DOCUMENT

File No. 517535

WARRANTY DEED

For Value Received

Mark Schroeder also known as Mark G. Schroeder and Peggy Schroeder also known as Peggy L. Schroeder, husband and wife

hereinafter referred to as Grantor, does hereby grant, bargain, sell, warrant and convey unto

Gregory T. Troost and Joyce K. Troost, as Trustees of The Troost Family Living Trust, u/v/a dated April 28, 1997

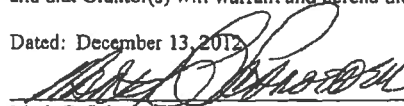
hereinafter referred to as Grantee, whose current address is 30540 Sabin Road Parma, ID 83660

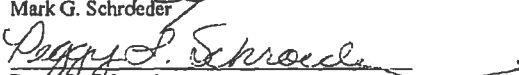
The following described premises, to-wit:

See Exhibit A attached hereto and made a part hereof.

TO HAVE AND TO HOLD the said premises, with their appurtenances unto the said Grantee(s), and Grantees(s) heirs and assigns forever. And the said Grantor(s) does (do) hereby covenant to and with the said Grantee(s), the Grantor(s) is/are the owner(s) in fee simple of said premises; that said premises are free from all encumbrances EXCEPT those to which this conveyance is expressly made subject and those made, suffered or done by the Grantee(s); and subject to U.S. Patent reservations, restrictions, dedications, easements, rights of way and agreements, (if any) of record, and current years taxes, levies, and assessments, includes irrigation and utility assessments, (if any) which are not yet due and payable, and that Grantor(s) will warrant and defend the same from all lawful claims whatsoever.

Dated: December 13, 2012


Mark G. Schroeder


Peggy L. Schroeder

State of Idaho, County of Canyon

On this 14th day of December in the year of 2012, before me, the undersigned, a Notary Public in and for said State, personally appeared Mark G. Schroeder and Peggy L. Schroeder known or identified to me to be the person/persons whose name(s) is/are subscribed to the within instrument, and acknowledged to me that he/she/they executed the same.


Residing at: Caldwell

Commission Expires: 11/2/2013

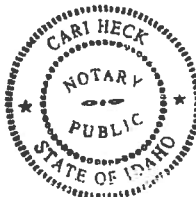


EXHIBIT A

✓ Parcel 1:

The Northwest Quarter of the Northeast Quarter and the Northeast Quarter of the Northwest Quarter, all in Section 33, Township 4 North, Range 5 West Boise Meridian, Canyon County, Idaho.

EXCEPTING THEREFROM

BEGINNING at the Northwest corner of the said Northeast Quarter of the Northwest Quarter and thence running in a

Southerly direction along the West boundary line of said Northeast Quarter of the Northwest Quarter a distance of 249 feet; thence in an

Easterly direction and parallel to the North line of said Northeast Quarter of the Northwest Quarter a distance of 518 feet; thence in a

Northerly direction and parallel to the Westerly boundary line of the said Northeast Quarter of the Northwest Quarter a distance of 249 feet to a point in the North boundary line of the said Northeast Quarter of the Northwest Quarter; thence in a

Westerly direction and along the Northerly line of said Northeast Quarter of the Northwest Quarter a distance of 518 feet to the POINT OF BEGINNING.

✓ Parcel 2:

The Northeast Quarter of the Northeast Quarter of Section 28, Township 4 North, Range 5 West of the Boise Meridian, Canyon County, Idaho.

✓ Parcel 3:

Land within the Southeast Quarter of the Northeast Quarter of Section 29, Township 4 North, Range 5 West, Boise Meridian, Canyon County, Idaho.

BEGINNING at the Northwest corner of said Southeast Quarter of the Northeast Quarter, an aluminum cap monument as per corner perpetuation record Inst. No. 200508303, Canyon County, Idaho records; thence along the North line of said Southeast Quarter of the Northeast Quarter, South 89° 22' 25" East, 1329.98 feet, to a brass cap monument marking the North 1/16 Corner common to Sections 29 and 28, as per Corner Perpetuation Record Inst. No. 9522767; thence along the line common to said Sections 29 and 28,

South 00° 38' 34" West, 572.61 feet; thence

North 89° 19' 38" West, 296.20 feet; thence

South 00° 29' 45" West, 318.05 feet; thence

North 87° 21' 49" East, 5.39 feet, to a found 1/2 inch rebar with a survey cap marked "PLS 8960"; thence

South 00° 38' 34" West, 445.09 feet, to a found 1/2 inch rebar with a survey cap marked "PLS 3627" on the South

line of said Southeast Quarter of the Northeast Quarter; thence along said South line,

North 89° 21' 22" West, 1035.77 feet, to an aluminum cap monument marking the C-E 1/16 Corner of said Section

29 as per Corner Perpetuation Record Inst. No. 200508302; thence along the West line of said Southeast Quarter of the Northeast Quarter,

North 00° 27' 44" East, 1334.89 feet, to the POINT OF BEGINNING.

✓ Parcel 4:

Land within the Northeast Quarter of the Southwest Quarter and the Northwest Quarter of the Southeast Quarter of Section 21, Township 4 North, Range 5 West, Boise Meridian, Canyon County, Idaho as follows:

BEGINNING at the Center 1/4 Corner of said Section 21, marked by a brass cap monument as per Corner

Perpetuation Record, Inst. No. 9730607; thence along the East-West Centerline of said Section 21,

South 89° 32' 31" East, 416.14 feet to a set 5/8 inch rebar, with a plastic cap marked "TVEI PLS 10782", hereinafter referred to simply as a "set 5/8 inch rebar" thence

South 00° 28' 08" West, 530.77 feet, to a found 1/2 inch inside diameter iron pipe; thence

South 49° 52' 31" East, 186.20 feet, to a found 1/2 inch rebar with a plastic survey cap marked "TVEI PLS 10782"; thence

South 89° 32' 14" East, 769.83 feet, to a set 5/8 inch rebar on the East line of the Northwest Quarter of the Southeast Quarter of said Section 21; thence along said East Line,

South 00° 13' 25" West, 510.10 feet; thence parallel with the South line of said Northwest Quarter of the Southeast Quarter,

North 89° 34' 05" West, 220.00 feet; thence parallel with the East line of said Northwest Quarter of the Southeast Quarter,

South 00° 13' 25" West, 175.00 feet, to a point of the South Line of said Northwest Quarter of the Southeast Quarter; thence along the South line of the Northwest Quarter of the Southeast Quarter and Northeast Quarter of the

Southwest Quarter of said Section 21,

North 89° 34' 05" West, 2429.99 feet, to the Southwest Corner of said Northeast Quarter of the Southwest Quarter of said Section 21, marked by a found 5/8 inch rebar and cap marked "PLS 7729"; thence along the West line of said

Northeast Quarter of the Southwest Quarter,

North 00° 04' 54" East, 1336.09 feet, to the Northwest Corner thereof, marked by a found 5/8 inch rebar and cap

marked "PLS 3627", as per Corner Perpetuation Record, Inst. No. 9848120; thence along the North line of said

Northeast Quarter of the Southwest Quarter,

South 89° 32' 20" East, 1326.78 feet, to the POINT OF BEGINNING.

✓ Parcel 5:

M.S.P.
P.S.

The West One-Half of the Southwest Quarter of Section 21, Township 4 North, Range 5 West, Boise Meridian, Canyon County, described by metes and bounds as follows:

BEGINNING at the Southwest Corner of said Section 21, marked by a brass cap monument, as per Corner Perpetuation Record, Inst. No. 9522763; thence, along the West line of the Southwest Quarter of the Southwest Quarter of said Section 21,
 North 00° 00' 18" East, 1337.64 feet, to the South 1/16 Corner, common to Sections 20 and 21, Township 4 North, Range 5 West, Boise Meridian, marked by a 5/8 inch rebar, as per Corner Perpetuation Record Inst. No. 9604558; thence along the West line of the Northwest Quarter of the Southwest Quarter of said Section 21,
 North 00° 00' 40" East, 1336.52 feet, to the Northwest Corner thereof, marked by a found 5/8 inch rebar, with a plastic survey cap marked "PLS 3627", as per Corner Perpetuation Record, Inst. No. 779351; thence along the North line of said Northwest Quarter of the Southwest Quarter,
 South 89° 32' 20" East, 1326.77 feet, to the Northeast Corner thereof, marked by a found 5/8 inch rebar, with a plastic survey cap marked "PLS 3627", as per Corner Perpetuation Record, Inst. No. 9848120; thence along the East line of said Northwest Quarter of the Southwest Quarter,
 South 00° 04' 54" West, 1336.09 feet, to the Southeast Corner thereof (Southwest 1/16 corner of said Section 21), marked by a found 5/8 inch rebar, with a plastic survey cap marked "PLS 7729"; thence along the East line of the Southwest Quarter of the Southwest Quarter of said Section 21,
 South 00° 04' 31" West, 1336.44 feet, to the Southeast Corner thereof, marked by a found 5/8 inch rebar as per Corner Perpetuation Record, Inst. No. 9522766; thence along the South line of said Southwest Quarter of the Southwest Quarter,
 North 89° 36' 31" West, 1323.48 feet, to the POINT OF BEGINNING.

✓ Parcel 6:

The Southwest Quarter of the Northwest Quarter of Section 27, Township 4 North, Range 5 West of the Boise Meridian, Canyon County, Idaho.

✓ Parcel 7:

The Southeast Quarter of the Southeast Quarter of Section 28, Township 4 North, Range 5 West of the Boise Meridian in Canyon County, Idaho:

EXCEPTING THEREFROM:

BEGINNING at the Northeast Corner of the Southeast Quarter of the Southeast Quarter of Section 28, Township 4 North, Range 5 West of the Boise Meridian; running thence
 West 295 feet; thence
 South 295 feet; thence
 East 295 feet; thence
 North 295 feet to the Place of Beginning; being a Tract of Land 295 feet Square lying in the Northeast Corner of said Southeast Quarter of the Southeast Quarter of said Section 28.

ALSO EXCEPTING THEREFROM:

A Parcel of land being in the Southeast Quarter of the Southeast Quarter of Section 28, Township 4 North, Range 5 West, Boise Meridian, Canyon County, Idaho, more particularly described as follows:

BEGINNING at a Point in the South boundary of the said Southeast Quarter of the Southeast Quarter, which is 230 feet East of the Southwest Corner of the said Southeast Quarter of the Southeast Quarter; thence
 North 230 feet; thence
 East 473 feet; thence
 South 230 feet, more or less, to the South boundary of the said Southeast Quarter of the Southeast Quarter;
 thence
 West along the South boundary of the said Southeast Quarter of the Southeast Quarter 473 feet, more or less, to the BEGINNING POINT.

✓ Parcel 8

That portion of the West Half of the Southwest Quarter of Section 26, Township 4 North, Range 5 West, Boise Meridian, Canyon County, Idaho, lying South and West of the centerline of the Fargo Highline Canal.

EXCEPTING THEREFROM:

A parcel of land being on both sides of the centerline of U.S. Highway No. 95, Project No. F-3311(11) Highway Survey as shown on the plans thereof now on file in the office of the Department of Highways of the State of Idaho, and being a portion of the West Half of the Southwest Quarter of Section 26, Township 4 North, Range 5 West, Boise Meridian, Canyon County, Idaho, described as follows, to-wit:

BEGINNING at the Southwest corner of Section 26, Township 4 North, Range 5 West, Boise Meridian, Canyon County, Idaho; thence
 South 89° 44' 30" East along the South line of said Section 26 a distance of 90 feet, more or less, to a point in a line parallel with and 80 feet Easterly from the centerline of said U.S. Highway No. 95, Project No. F-3311(11) Highway Survey; thence
 North 0° 30' 25" East along said parallel line 168 feet, more or less to a point opposite Station 281+00.0 of said Highway Survey; thence
 North 7° 05' 15" West 151.33 feet to a point in a line parallel with and 60 feet Easterly from the centerline and opposite Station 282+50.0 of said Highway Survey; thence

North 0° 30' 25" East along said last parallel line 500 feet to a point opposite Station 287+50.0 of said Highway Survey; thence
 North 40° 19' 15" East 451 feet to a point in a line parallel with and 90 feet Easterly from the centerline and opposite Station 292+00.0 of said Highway Survey; thence
 North 0° 30' 25" East along said last parallel line 1,100 feet to a point opposite Station 303+00 of said Highway Survey; thence
 North 8° 40' 42" West 313.23 feet to a point in the North line of the Northwest Quarter of the Southwest Quarter of said Section 26; thence
 North 89° 29' 35" West along said North line 44.95 feet to the Northwest corner of said Northwest Quarter of the Southwest Quarter; thence
 South 0° 35' 59" West along the West line of said Section 26 a distance of 2,677 feet, more or less.

✓ Parcel 9:

The East Half of the Southwest Quarter of Section 35, Township 4 North, Range 5 West, Boise Meridian, Canyon County, Idaho

✓ Parcel 10:

A portion of the Northeast Quarter of the Northeast Quarter of Section 33, Township 4 North, Range 5 West of the Boise Meridian, Canyon County, Idaho and is more particularly described as follows:

COMMENCING at the Southeast corner of said Northeast Quarter of the Northeast Quarter; thence
 North 0° 24' 19" East along the East boundary of said Northeast Quarter of the Northeast Quarter, a distance of 175.00 feet to the TRUE POINT OF BEGINNING; thence
 North 89° 32' 45" West parallel with the South boundary of said Northeast Quarter of the Northeast Quarter, a distance of 550 feet; thence
 South 0° 24' 19" West parallel to said East line 175.00 feet to a point on the South boundary of said Northeast Quarter of the Northeast Quarter; thence
 North 89° 32' 45" West along the south boundary of said Northeast Quarter of the Northeast Quarter a distance of 770.21 feet to the Southwest corner of said Northeast Quarter of the Northeast Quarter; thence
 North 0° 23' 36" East along the West boundary of said Northeast Quarter of the Northeast Quarter, a distance of 1,320.74 feet to the Northwest corner of said Northeast Quarter of the Northeast Quarter; thence
 South 89° 32' 45" East along the North boundary of said Northeast Quarter of the Northeast Quarter, a distance of 1,320.48 feet to the Northeast corner of said Northeast Quarter of the Northeast Quarter; thence South 0° 24' 19" West along the East boundary of said Northeast Quarter of the Northeast Quarter, a distance of 1,145.75 feet to the TRUE POINT OF BEGINNING.

✓ Parcel 11:

Land within Government Lot 1 and the North One-Half of the Northeast Quarter of the Northeast Quarter of Section 29, Township 4 North, Range 5 West, Boise Meridian, Canyon County, Idaho as follows:

COMMENCING at the Northwest Corner of said Government Lot 1, a brass cap monument, as per corner perpetuation record Inst. No. 200417627, Canyon County, Idaho records; thence along the North Line of said Section 29,
 South 89° 23' 40" East, 1019.15 feet, to the East right-of-way of Sandy Beach Drive, as per deed Inst. No. 200512734, and as shown on the Plat of Sandy Beach Subdivision, in Book 35, at Page 46, Canyon County Plat Records, and the POINT OF BEGINNING; thence continuing along said North Line,
 South 89° 23' 40" East, 986.15 feet, to a set 5/8 inch rebar; thence
 South 00° 35' 26" West, 666.52 feet, to a found 1/2 inch rebar with a plastic cap marked "PLS 8960" on the North Line of Kaweah Estates Subdivision, in Book 34, at Page 26, Canyon County Plats, as per Recorded Survey, Inst. No. 200519323; thence along said North Line,
 North 89° 16' 57" West, 662.44 feet, to a found 5/8 inch rebar and cap marked "PLS 3627", marking the Northwest corner of said Kaweah Estates Subdivision; thence along the West Line thereof,
 South 00° 32' 39" West, 669.75 feet, to a point on the South Line of the Northeast Quarter of the Northeast Quarter of said Section 29; thence along said South Line, and the South Line of said Government Lot 1,
 North 89° 22' 25" West, 321.28 feet, to a found 5/8 inch rebar, marking the East right-of-way of said Sandy Beach Drive; thence along said right-of-way,
 North 00° 27' 44" East, 1334.85 feet, to the POINT OF BEGINNING.

✓ Parcel 12:

All of the Southwest Quarter of the Northwest Quarter and all that part of the Northwest Quarter of the Northwest Quarter, Section 22, Township 4 North, Range 5 West, Boise Meridian, Canyon County, Idaho, described as follows:

BEGINNING at the Southwest corner of the Northwest Quarter of the Northwest Quarter of said Section 22 and running thence
 North 89° 42' East 1,320 feet along the South boundary line of said Northwest Quarter of the Northwest Quarter to the Southeast corner of said Northwest Quarter of the Northwest Quarter, the center line of the Golden Gate Canal; thence meandering down stream along the center line of said Golden Gate Canal
 North 88° 18' West 895 feet; thence
 North 68° 48' West 140 feet; thence
 North 38° 21' West 130.1 feet; thence
 South 89° 42' West 214.5 feet to the West line of the said Northwest Quarter of the Northwest Quarter, Section 22; thence
 South 0° 07' East 185 feet along said West line to the POINT OF BEGINNING.

EXCEPTING THEREFROM

A parcel of land located in the Northwest Quarter of Section 22, Township 4 North, Range 5 West, Boise Meridian, Canyon County, Idaho, and is more particularly described as follows:

BEGINNING at an iron pin marking North 1/16 Corner of the Westerly boundary of Section 22, Township 4 North, Range 5 West, Boise Meridian, Canyon County, Idaho, said point being the TRUE POINT OF BEGINNING; thence North 0° 00'00" East a distance of 185.00 feet along the Westerly boundary of said Section 22 to an iron pin; thence North 89° 49'00" East a distance of 209.59 feet (formerly being 214.5 feet) to a point marking the centerline of the irrigation canal, said point being North 89° 49'00" East a distance of 41.57 feet from an iron pin marking the intersection of a 35.00 foot offset line from the canal centerline and the Northerly boundary of the parcel; thence South 32° 50'37" East a distance of 84.62 feet along the centerline of an irrigation canal to a point; said point being North 17° 46'30" West a distance of 134.63 feet from an iron pin marking the point of intersection of 35.00 foot offset lines from the canal centerline; thence Southeasterly along a curve to the left marking the centerline of an irrigation canal having a radius of 208.66 feet, a chord length of 196.45 feet and a chord bearing of South 60° 55'32" East for a distance of 204.54 feet to a point, said point being North 75° 55'27" East a distance of 134.63 feet from an iron pin marking the point of intersection of 35.00 foot offset lines from the canal centerline; thence South 89° 00'26" East a distance of 150.62 feet along the centerline of the irrigation canal to a point marking the intersection of the said irrigation canal and the centerline of irrigation lateral; said point being North 23°29'08" East a distance of 37.88 feet from an iron pin marking the intersection of a 35.00 foot offset line from the canal centerline and a 15.00 foot offset line from the lateral centerline; thence South 0°09'32" West a distance of 86.79 feet along the centerline of the irrigation lateral to a point marking an angle point in the irrigation lateral, said point being South 52°12'24" East a distance of 18.94 feet from an iron pin marking the point of intersection of 15.00 foot offset lines from the lateral centerline; thence South 75° 25'40" West a distance of 234.59 feet along the centerline of an irrigation lateral to a point, said point being South 81° 22'25" East a distance of 38.08 feet from an iron pin marking the point of intersection of 15.00 foot offset lines from the lateral centerline; thence Southwesterly along a curve to the right marking the centerline of an irrigation lateral having a radius of 254.46 feet, a chord length of 73.60 feet and a chord bearing of South 83° 44'34" West for a distance of 73.86 feet to a point, said point being South 68° 51'33" West a distance of 38.08 feet from an iron pin marking the point of intersection of 15.00 foot offset lines from the lateral centerline; thence North 87° 56'32" West a distance of 277.51 feet along the centerline of an irrigation lateral to an iron pin marking the intersection of the said irrigation lateral and the Westerly boundary of said Section 22; thence North 0° 00'00" East a distance of 127.36 feet along the Westerly boundary of said Section 22 to the TRUE POINT OF BEGINNING.

✓ Parcel 13:

Land within the Southeast Quarter of the Southeast Quarter of Section 20, Township 4 North, Range 5 West, Boise Meridian, Canyon County, Idaho, as follows:

BEGINNING at the Southeast Corner of said Section 20, marked by a brass cap monument, as per Corner Perpetuation Record, Inst. No. 9522763; thence along the South Line of said Section 20, North 89° 23' 40" West, 881.70 feet, to a set 5/8 inch rebar and cap marked "TVEI PLS 10782", hereinafter simply referred to as a "set 5/8 inch rebar"; thence North 25° 48' 11" West, 1036.53 feet, to a point on the West line of said Southeast Quarter of the Southeast Quarter; thence along said West line, North 00° 04' 38" East, 408.43 feet, to the Northwest Corner of said Southeast Quarter of the Southeast Quarter; thence along the North Line of said Southeast Quarter of the Southeast Quarter, South 89° 25' 44" East, 970.49 feet, to a set 5/8 inch rebar; thence South 40° 14' 05" East, 295.03 feet, to a set 5/8 inch rebar; thence South 47° 37' 41" East, 231.94 feet, to a point on the East line of said Southeast Quarter of the Southeast Quarter; thence along said East Line, South 00° 00' 18" West, 959.71 feet, to the POINT OF BEGINNING.

✓ Parcel 14:

The Southwest Quarter of the Southeast Quarter of Section 20, Township 4 North, Range 5 West, Boise Meridian, described by metes and bounds, as follows:

BEGINNING at the Southwest Corner of said Southwest Quarter of the Southeast Quarter, marked by a brass cap monument as per Corner Perpetuation Record, Inst. No. 200417627; thence along the West Line of said Southwest Quarter of the Southeast Quarter, North 00° 08' 47" East, 1336.02 feet, to the Northwest corner thereof; thence along the North Line of said Southwest Quarter of the Southeast Quarter, South 89° 25' 44" East, 1332.54 feet, to the Northeast Corner thereof; thence along the East Line of said Southwest Quarter of the Southeast Quarter, South 00° 04' 38" West, 1336.83 feet to the Southeast Corner thereof, marked by an aluminum cap monument, as per Corner Perpetuation Record, Inst. No. 200651864; thence along the South line of said Southwest Quarter of the Southeast Quarter, North 89° 23' 40" West, 1334.16 feet, to the POINT OF BEGINNING.

Parcel 15:

Land within Government Lot 1 of Section 29, Township 4 North, Range 5 West, Boise Meridian, Canyon County, Idaho as follows:

COMMENCING at the Northwest corner of said Government Lot 1, a brass cap monument, as per corner perpetuation record Inst. No. 200417627, Canyon County, Idaho records; thence along the North line of said Section 29, South 89° 23' 40" East, 397.76 feet, to a set 5/8 inch rebar with an orange survey cap marked "TVEI PLS 10782" (hereinafter referred to simply as a set "set 5/8 inch rebar") and the POINT OF BEGINNING; thence continuing along said North line, South 89° 23' 40" East, 561.39 feet, to the West right-of-way of Sandy Beach Drive, as per deed Inst. No. 200512734, and as shown on the Plat of Sandy Beach Subdivision, in Book 35, at Page 46, Canyon County Plat Records; thence along said West right-of-way, South 00° 27' 44" West, 1334.83 feet, to a point on the South Line of said Government Lot 1, also being the North Line of said Sandy Beach Subdivision; thence along said South Line of Government Lot 1, North 89° 22' 25" West, 545.77 feet, to a set 5/8 inch rebar; thence North 00° 12' 30" West, 1334.77 feet, to the POINT OF BEGINNING.

Parcel 16:

The Southeast Quarter of the Northeast Quarter of Section 28, Township 4 North, Range 5 West of the Boise Meridian, Canyon County, Idaho

EXCEPTING THEREFROM

A part of the Southeast Quarter of the Northeast Quarter, Section 28, Township 4 North, Range 5 West, Boise Meridian, Canyon County, Idaho, more particularly described as follows:

BEGINNING at the Southwest corner of said Southeast Quarter of the Northeast Quarter (EC 1/16); thence North 0° 02' 30" East 941.51 feet along the West boundary of said Southeast Quarter of the Northeast Quarter to a point on the centerline of the Holloway Lateral; thence South 42° 29' 35" East 517.10 feet along the centerline of the Holloway Lateral; thence South 40° 43' 00" West 143.15 feet along the centerline of the Holloway Lateral to a point on the centerline of the Laht Drain; thence South 7° 25' 25" West 454.63 feet along the centerline of said drain to a point on the South boundary of said Southeast Quarter of the Northeast Quarter; thence South 89° 44' 25" West 197.87 feet along the South boundary of said Southeast Quarter of the Northeast Quarter to the POINT OF BEGINNING.

Parcel 17:

The Northeast Quarter of the Southeast Quarter of Section 28, Township 4 North, Range 5 West of the Boise Meridian, Canyon County, Idaho.

Exhibit 2

IDAHO DEPARTMENT OF WATER RESOURCES WELL DRILLER'S REPORT

837725
Office Use Only
Well ID No. 408167
Inspected by _____
Twp _____ Rge _____ Sec _____
_____ 1/4 _____ 1/4 _____ 1/4
Lat: : : Long: : :

1. WELL TAG NO. D 0041943
 DRILLING PERMIT NO _____
 Water Right or Injection Well No _____

2. OWNER:

Name RONALD AND COLEEN SCHAUB
Address 212 BLOOMINGTON DR,
City MERIDIAN State ID Zip 83646

3. LOCATION OF WELL by legal description:

You must provide address or Lot, Blk, Sub or Directions to well.

Twp 4 North ☒ or South ☐
Rge 5 East ☐ or West ☒
Sec 29 1/4 NE 1/4 NE 1/4
Gov't Lot _____ 10 acres 40 acres 160 acres
County CANON

Lat: : : Long: : :
Address of Well Site 25061 LOWER PLEASANT RIDGE
RD. (Temporary address) City WILDER
(Give at least name of road + Distance to Road or Landmark)
Lt 2 Blk. 1 Sub Name River Oaks Estate
(Fish Rd & Lower Pleasant Ridge Rd)

4. USE:

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

5. TYPE OF WORK check all that apply (Replacement etc)

☐ New Well ☐ Modify ☐ Abandonment ☐ Other

6. DRILL METHOD:

☐ Air Rotary ☒ Cable ☐ Mud Rotary ☐ Other

7. SEALING PROCEDURES

Seal Material	From	To	Weight / Volume	Seal Placement Method
PENTONITE	0	18	7 SKS	grout-dry

Was drive shoe used? ☐ Y ☐ N Shoe Depth(s) _____

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

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
6	+1	40	250	STEEL	☒	☐	☒	☐
					☐	☐	☐	☐
					☐	☐	☐	☐

Length of Headpipe _____ Length of Tailpipe _____
Packer ☐ Y ☐ N Type _____

9. PERFORATIONS/SCREENS PACKER TYPE

Perforation Method

Screen Type & Method of Installation

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
						☐	☐
						☐	☐
						☐	☐

10. FILTER PACK

Filter Material	From	To	Weight / Volume	Placement Method

11. **STATIC WATER LEVEL OR ARTESIAN PRESSURE:**

1.5 ft below ground Artesian pressure _____ lb
Depth flow encountered _____ ft. Describe access port or control devices: _____
WELL CAP

12. WELL TESTS:

☐ Pump Bailer ☐ Air ☐ Flowing Artesian

Yield gal./min.	Drawdown	Pumping Level	Time
15	7'	22	2 HRS,

Water Temp. 60° Bottom hole temp _____

Water Quality test or comments: 86RNS,

Depth first Water Encounter

13. LITHOLOGIC LOG: (Describe repairs or abandonment)

Water

[illegible]Completed Depth 41 (Measurable)

Date: Started 12-3-05 Completed 12-5-05

14. DRILLER'S CERTIFICATION

I/We certify that all minimum well construction standards were complied with at the time the rig was removed.

Company Name KENNE METZLER Firm No 93

Principal Driller Kenneth M. [Signature] Date 12-12-05
and _____

Driller or Operator II Dennis V. ... Date 12-12-05

Operator I _____ Date _____

Principal Driller and Rig Operator *Required*
Operator I must have signature of Driller/Operator II

FORWARD WHITE COPY TO WATER RESOURCES

IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

846860
Office Use Only
Well ID No. 416900
Inspected by _____
Twp _____ Rge _____ Sec _____
1/4 _____ 1/4 _____ 1/4 _____
Lat: _____ Long: _____

1. WELL TAG NO. D 0048184
DRILLING PERMIT NO. _____
Water Right or Injection Well No. _____

2. OWNER:

Name Tradition Custom Homes
Address 2097 West Crooked Stick Dr.
City Eagle State Id Zip 83616

3. LOCATION OF WELL by legal description:

You must provide address or Lot, Blk, Sub. or Directions to well.

Twp. 4 North ☒ or South ☐
Rge. 5 East ☐ or West ☒
Sec. 29 NE 1/4 NE 1/4 1/4
Gov't Lot _____ County Canyon 160 acres

Lat: _____ Long: _____
Address of Well Site 28130 Watkins Glen Ct.

City Leilder
Lt. 8 Blk. 1 Sub. Name Kauriah Est.

4. USE:

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

5. TYPE OF WORK check all that apply (Replacement etc.)

☒ New Well ☐ Modify ☐ Abandonment ☐ Other _____

6. DRILL METHOD:

☒ Air Rotary ☐ Cable ☐ Mud Rotary ☐ Other _____

7. SEALING PROCEDURES

Seal Material	From	To	Weight/Volume	Seal Placement Method
<u>perma plug</u>	<u>0</u>	<u>19</u>	<u>650 lbs</u>	<u>10" over bore</u>
				<u>dry pour</u>

Was drive shoe used? ☒ Y ☐ N Shoe Depth(s) 147'
Was drive shoe seal tested? ☐ Y ☒ N How? _____

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
<u>6" +2</u>	<u>147</u>	<u>250</u>	<u>250</u>	<u>Steel</u>	☐	☐	☒	☐
					☐	☐	☐	☐
					☐	☐	☐	☐

Length of Headpipe 5' Length of Tailpipe 0
Packer ☒ Y ☐ N Type 3-Rib

9. PERFORATIONS/SCREENS PACKER TYPE

Perforation Method _____
Screen Type & Method of Installation Johnson Const DN. Valve

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
<u>144</u>	<u>154</u>	<u>20</u>	<u>6"</u>	<u>7/8"</u>	<u>S.S.</u>	☐	☐
						☐	☐
						☐	☐

10. FILTER PACK

Filter Material	From	To	Weight / Volume	Placement Method

11. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

27 ft. below ground Artesian pressure _____ lb.
Depth flow encountered _____ ft. Describe access port or control devices:
Sani Seal well cap

12. WELL TESTS:

☐ Pump ☐ Bailor ☒ Air ☐ Flowing Artesian

Yield gal./min.	Drawdown	Pumping Level	Time
<u>200+</u>		<u>150</u>	<u>2 hrs</u>

Water Temp. _____ Bottom hole temp. _____

Water Quality test or comments: Good Clear color
has a little sulfur smell Depth first Water Encounter 53'

13. LITHOLOGIC LOG: (Describe repairs or abandonment)

Bore Dia.	From	To	Remarks: Lithology, Water Quality & Temperature	Y	N
<u>10"</u>	<u>0</u>	<u>22</u>	<u>Sand & clay some gravel</u>	☒	☐
<u>10"</u>	<u>22</u>	<u>43</u>	<u>Sand & gravel</u>	☒	☐
<u>6"</u>	<u>43</u>	<u>53</u>	<u>Brn Sandy clay & Blue clay</u>	☒	☐
	<u>53</u>	<u>56</u>	<u>Dark Blk Sand & clay Fract</u>	☒	☐
	<u>56</u>	<u>60</u>	<u>Blue clay</u>	☐	☒
	<u>60</u>	<u>63</u>	<u>Blue clay Fract. w/sand</u>	☒	☐
	<u>63</u>	<u>82</u>	<u>Blue Clay</u>	☐	☒
	<u>82</u>	<u>85</u>	<u>Blue clay Fractured w/sand</u>	☒	☐
	<u>85</u>	<u>147</u>	<u>Blue clay</u>	☐	☒
	<u>147</u>	<u>154</u>	<u>med</u>	☒	☐

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WATER RESOURCES
WESTERN REGION

Completed Depth 154 ft. (Measurable)
Date: Started 5/24/07 Completed 5/25/07

14. DRILLER'S CERTIFICATION

I/we certify that all minimum well construction standards were complied with at the time the rig was removed.

Company Name Precision Well Drilling Firm No. 522

Principal Driller Jeff Ransom Date 6/11/07

Driller or Operator II _____ Date _____

Operator I _____ Date _____

Principal Driller and Rig Operator Required.
Operator I must have signature of Driller/Operator II.

IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

1. WELL TAG NO. D 0030875
 DRILLING PERMIT NO. _____
 Water Right or Injection Well No. _____

2. OWNER: John Mortenson
Name John Mortenson
Address 40 S. 1st St. 2312 E. Harbor Grove Dr
City Nampa State Id Zip 83686

3. LOCATION OF WELL by legal description:

You must provide address or Lot, Blk, Sub. or Directions to well.

Twp. 4 North ☒ or South ☐
Rge. 5 East ☐ or West ☒
Sec. 29 1/4 NE 1/4 NE 1/4
Gov't Lot _____ County Canyon 160 acres
Lat. : : Long. : :
Address of Well Site 19851 Fish Lane

City W. Eden

4. USE:

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

5. TYPE OF WORK check all that apply (Replacement etc.)

☒ New Well ☐ Modify ☐ Abandonment ☐ Other _____

6. DRILL METHOD:

☒ Air Rotary ☐ Cable ☐ Mud Rotary ☐ Other _____

7. SEALING PROCEDURES

Seal Material	From	To	Weight / Volume	Seal Placement Method
Bentonite	0	20	1000 lb	over bore

Was drive shoe used? ☒ Y ☐ N Shoe Depth(s) 63'
Was drive shoe seal tested? ☐ Y ☒ N How?

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
6"	+2	63	250	Steel	☒	☐	☒	☐
					☐	☐	☐	☐
					☐	☐	☐	☐

Length of Headpipe 10' Length of Tailpipe 10'
Packer ☒ Y ☐ N Type 57

9. PERFORATIONS/SCREENS PACKER TYPE

Perforation Method _____
Screen Type & Method of Installation Johnson washdown

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
67	72	.018		5 th	SS	☐	☐
72	77	.020		5 th	SS	☐	☐
						☐	☐

10. FILTER PACK

Filter Material	From	To	Weight / Volume	Placement Method

11. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

15 ft. below ground Artesian pressure lb.
Depth flow encountered _____ ft. Describe access port or control devices: well cap

Office Use Only
Well ID No. 810314
Inspected by _____
Twp _____ Rge _____ Sec _____
_____ 1/4 _____ 1/4 _____ 1/4
Lat: : : Long: : :

12. WELL TESTS:

☐ Pump ☐ Bailer ☒ Air ☐ Flowing Artesian

Yield gal./min.	Drawdown	Pumping Level	Time
50			1/2 hour

Water Temp. 60° Bottom hole temp. _____
Water Quality test or comments: Iron .1 PH 7.5
Grains 7 Depth first Water Encounter 15'

13. LITHOLOGIC LOG: (Describe repairs or abandonment)

Water

[illegible]

14. DRILLER'S CERTIFICATION

I/We certify that all minimum well construction standards were complied with at the time the rig was removed.

Company Name Adamson Pump & Drill Firm No. 457

Principal Driller David C. Johnson Date 1.22.04
and _____

Driller or Operator II Andy Baker Date 1-22-04

Operator I _____ Date _____

Principal Driller and Rig Operator *Required*.
Operator I must have signature of Driller/Operator II.

IDAHO DEPARTMENT OF WATER RESOURCES

WELL DRILLER'S REPORT

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AUG 06 1999

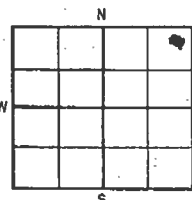
1. WELL TAG NO. D 0006 726
DRILLING PERMIT NO. 63-99-C-0524-000
Other IDWR No. _____

2. OWNER:

Name J+M Cattle
Address 19851 Fish Road
City Wildier State Id Zip 83607

3. LOCATION OF WELL by legal description:

Sketch map location must agree with written location.



Twp. 4 North ☒ or South ☐
Rge. 5 East ☐ or West ☒
Sec. 29 NE 1/4 NE 1/4 1/4
Gov't Lot _____ County Canyon
Lat: _____ Long: _____

Address of Well Site Same as above
City Wildier

(Give at least name of road + Distance to Road or Landmark)

Lt. _____ Blk. _____ Sub. Name _____

4. USE:

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

5. TYPE OF WORK check all that apply (Replacement etc.)

☒ New Well ☐ Modify ☐ Abandonment ☐ Other _____

6. DRILL METHOD

☐ Air Rotary ☒ Cable ☐ Mud Rotary ☐ Other _____

7. SEALING PROCEDURES

SEAL/FILTER PACK			AMOUNT		METHOD
Material	From	To	Sack	Pounds	
<u>Bentonite</u>	<u>0</u>	<u>20</u>	<u>15</u>		<u>over bore</u>

Was drive shoe used? ☒ Y ☐ N Shoe Depth(s) 75
Was drive shoe seal tested? ☒ Y ☐ N How? dry hole

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
<u>8" + 2</u>	<u>73</u>	<u>75</u>	<u>20</u>	<u>Steel</u>	☒	☐	☒	☐
<u>5"</u>	<u>70</u>	<u>75</u>	<u>150</u>	<u>Steel</u>	☒	☐	☒	☐

Length of Headpipe 6" Length of Tailpipe 0

9. PERFORATIONS/SCREENS

Perforations _____ Method jetting
Screens _____ Screen Type SS

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
<u>75</u>	<u>120</u>	<u>2"</u>		<u>5"</u>	<u>SS</u>	☐	☒

10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

15 ft. below ground Artesian pressure _____ lb.
Depth flow encountered _____ ft. Describe access port or control devices: well cap

11. WELL TESTS:

☐ Pump ☐ Baller ☒ Air ☐ Flowing Artesian

Yield gal./min.	Drawdown	Pumping Level	Time
<u>500</u>	<u>20</u>	<u>120</u>	<u>4 hr</u>

Water Temp. _____ Bottom hole temp. _____
Water Quality test or comments: _____

12. LITHOLOGIC LOG: (Describe repairs or abandonment) Water

Bore Dia.	From	To	Remarks: Lithology, Water Quality & Temperature	Y	N
<u>10</u>	<u>0</u>	<u>20</u>	<u>Sand</u>		
<u>8</u>	<u>20</u>	<u>30</u>	<u>Sandy Clay</u>		
<u>30</u>	<u>40</u>		<u>Blue Clay</u>		
<u>40</u>	<u>45</u>		<u>Blue Clay</u>		
<u>45</u>	<u>50</u>		<u>Coarse Sand</u>	☒	
<u>35</u>	<u>58</u>		<u>Blue Clay</u>		
<u>58</u>	<u>63</u>		<u>Coarse Sand</u>	☒	
<u>63</u>	<u>75</u>		<u>Blue Clay</u>		
<u>75</u>	<u>120</u>		<u>Coarse Sand + Gravel</u>	☒	

MICROFILMED

Completed 1999 Depth 120 (Measurable)
Date: Started 7-2-99 Completed 8-6-99

13. DRILLER'S CERTIFICATION

I/we certify that all minimum well construction standards were complied with at the time the rig was removed.

Company Name Stream water well Firm No. 575

Firm Official Rob Haysom Date 8-6-99

and Driller or Operator Mike Price Date 8-6-99
(Sign once if Firm Official & Operator)

IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

1. WELL TAG NO. D D0046898
DRILLING PERMIT NO. _____
Water Right or Injection Well No. _____

2. OWNER:

Name ALPHA HOME CONSTRUCTION
Address 3102 S. BEAR CLAW WAY
City MERIDIAN State ID Zip 83642

3. LOCATION OF WELL by legal description:

You must provide address or Lot, Blk, Sub. or Directions to well.

Twp. 4 North ☒ or South ☐
Rge. 5 East ☐ or West ☒
Sec. 29 NE 1/4 NE 1/4 1/4
Gov't Lot _____ County CANYON 180 acres
Lat: : : Long: : :
Address of Well Site 28081 WATKINS GLEN CT.

(Give at least name of road - Distance to Road or Landmark)
Lt. 15 Blk. 1 Sub. Name Watkins Glen Sub.
Kaweah Estates Sub.

4. USE:

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

5. TYPE OF WORK check all that apply (Replacement etc.)

☒ New Well ☐ Modify ☐ Abandonment ☐ Other _____

6. DRILL METHOD:

☒ Air Rotary ☐ Cable ☐ Mud Rotary ☐ Other _____

7. SEALING PROCEDURES

Seal Material	From	To	Weight / Volume	Seal Placement Method
<u>5/8 BENTONITE</u>	<u>0</u>	<u>18</u>	<u>650 lbs.</u>	<u>10" OVERBORE</u>

Was drive shoe used? ☒ Y ☐ N Shoe Depth(s) 39'
Was drive shoe seal tested? ☐ Y ☒ N How? _____

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
<u>6"</u>	<u>1 1/2</u>	<u>39</u>	<u>.250</u>	<u>STEEL</u>	☒	☐	☒	☐

Length of Headpipe N/A Length of Tailpipe N/A
Packer ☐ Y ☒ N Type _____

9. PERFORATIONS/SCREENS PACKER TYPE

Perforation Method _____
Screen Type & Method of Installation PVC SLOTTED SCREENS/PULLBACK

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
<u>33</u>	<u>73</u>	<u>.020</u>	<u>40</u>	<u>4 1/2</u>	<u>PVC</u>	☐	☒

10. FILTER PACK

Filter Material	From	To	Weight / Volume	Placement Method
<u>N/A</u>				

11. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

15 ft. below ground Artesian pressure _____ lb.
Depth flow encountered _____ ft. Describe access port or control devices: _____

841732
Office Use Only
Well ID No. 411998
Inspected by _____
Twp _____ Rge _____ Sec _____
1/4 1/4 1/4
Lat: : : Long: : :

12. WELL TESTS:

☒ Pump ☐ Bailer ☐ Air ☐ Flowing Artesian

Yield gal./min.	Drawdown	Pumping Level	Time
<u>42</u>			<u>3 hrs.</u>

Water Temp. _____ Bottom hole temp. _____

Water Quality test or comments: _____

Depth first Water Encounter _____

13. LITHOLOGIC LOG: (Describe repairs or abandonment)

Bore Dia.	From	To	Remarks: Lithology, Water Quality & Temperature	Y	N
<u>10"</u>	<u>0</u>	<u>2</u>	<u>TOP SOIL</u>		☒
	<u>2</u>	<u>14</u>	<u>SANDY BRN. CLAY</u>		☒
	<u>14</u>	<u>18</u>	<u>SAND : GRAVEL</u>		☒
<u>6"</u>	<u>18</u>	<u>40</u>	<u>SAND : GRAVEL</u>	☒	
	<u>40</u>	<u>55</u>	<u>BLUE COARSE SAND & GRAVEL</u>	☒	
	<u>55</u>	<u>73</u>	<u>BLUE SANDY CLAY</u>	☒	

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WATER RESOURCES
WESTERN REGION

Completed Depth 73' (Measurable)

Date: Started 7/11/06 Completed 7/12/06

14. DRILLER'S CERTIFICATION

I/We certify that all minimum well construction standards were complied with at the time the rig was removed.

Company Name DPWD Firm No. 332

Principal Driller [Signature] Date 7/14/06
and
Driller or Operator II _____ Date _____

Operator I _____ Date _____

Principal Driller and Rig Operator Required.
Operator I must have signature of Driller/Operator II.

IDAHO DEPARTMENT OF WATER RESOURCES WELL DRILLER'S REPORT

1. WELL TAG NO. D D00416825
DRILLING PERMIT NO. _____
Water Right or Injection Well No. _____

2. OWNER:

Name ALPHA HOME CONSTRUCTION
Address 3102 S. BEAR CLAW WAY
City MERIDIAN State ID. Zip 83642

3. LOCATION OF WELL by legal description:

You must provide address or Lot, Blk, Sub. or Directions to well.

Twp. 4 North ☒ or South ☐
Rge. 5 East ☐ or West ☒
Sec. 29 NE 1/4 NE 1/4 1/4
Gov't Lot _____
County CANON 160 acres
Lat: : : Long: : :
Address of Well Site 28072 WATKINS GREEN CT.
City WILDER

(Give at least name of road - Distance to Road or Landmark)
Lt. 3 Blk. 1 Sub. Name WATKINS GREEN SUB.
Kaweah Estates

4. USE:

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

5. TYPE OF WORK check all that apply (Replacement etc.)

☒ New Well ☐ Modify ☐ Abandonment ☐ Other _____

6. DRILL METHOD:

☒ Air Rotary ☐ Cable ☐ Mud Rotary ☐ Other _____

7. SEALING PROCEDURES

Seal Material	From	To	Weight / Volume	Seal Placement Method
<u>5/8 BENTONITE</u>	<u>0</u>	<u>18</u>	<u>700 lbs</u>	<u>10" OVERLAP</u>

Was drive shoe used? ☒ Y ☐ N Shoe Depth(s) 39'
Was drive shoe seal tested? ☐ Y ☒ N How? _____

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
<u>6"</u>	<u>1 1/2</u>	<u>39</u>	<u>.250</u>	<u>STEEL</u>	☒	☐	☒	☐
<u>4 1/2"</u>	<u>23</u>	<u>43</u>	<u>.40</u>	<u>PVC</u>	☐	☒	☐	☐

Length of Headpipe 20.0 Length of Tailpipe N/A
Packer ☐ Y ☒ N Type _____

9. PERFORATIONS/SCREENS PACKER TYPE

Perforation Method _____
Screen Type & Method of Installation PVC SLOTTED SCREENS/PACKER

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
<u>43</u>	<u>103</u>	<u>.020</u>	<u>40</u>	<u>4 1/2"</u>	<u>PVC</u>	☐	☒

10. FILTER PACK

Filter Material	From	To	Weight / Volume	Placement Method
<u>N/A</u>				

11. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

15 ft. below ground Artesian pressure _____ lb.
Depth flow encountered _____ ft. Describe access port or control devices: _____

841257
Office Use Only
Well ID No. 411532
Inspected by _____
Twp _____ Rge _____ Sec _____
1/4 1/4 1/4
Lat: : : Long: : :

12. WELL TESTS:

☒ Pump ☐ Bailer ☐ Air ☐ Flowing Artesian

Yield gal./min.	Drawdown	Pumping Level	Time
<u>42</u>			<u>2 hrs.</u>

Water Temp. _____ Bottom hole temp. _____

Water Quality test or comments: _____

Depth first Water Encounter _____

13. LITHOLOGIC LOG: (Describe repairs or abandonment)

Bore Dia.	From	To	Remarks: Lithology, Water Quality & Temperature	Y	N
<u>10"</u>	<u>0</u>	<u>2</u>	<u>TOP SOIL</u>		☒
	<u>2</u>	<u>14</u>	<u>SANDY BRN. CLAY</u>		☒
	<u>14</u>	<u>18</u>	<u>SAND: GRAVEL</u>		☒
<u>6"</u>	<u>18</u>	<u>40</u>	<u>SAND: GRAVEL</u>	☒	
	<u>40</u>	<u>55</u>	<u>BLUE SAND: GRAVEL</u>	☒	
	<u>55</u>	<u>103</u>	<u>BLUE CLAY w/ CRACKS</u>	☒	
	<u>103</u>	<u>203</u>	<u>BLUE CLAY</u>		

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JUL 28 2006

WATER RESOURCES
WESTERN REGION

Completed Depth 103' (Measurable)

Date: Started 7/10/06 Completed 7/11/06

14. DRILLER'S CERTIFICATION

I/We certify that all minimum well construction standards were complied with at the time the rig was removed.

Company Name D P W D Firm No. 332

Principal Driller Mark Ryan Date 7/12/06

Driller or Operator II _____ Date _____

Operator I _____ Date _____

Principal Driller and Rig Operator Required.
Operator I must have signature of Driller/Operator II.

FORWARD WHITE COPY TO WATER RESOURCES

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.

1. WELL OWNER Name <u>TIM EWING</u> Address <u>WILDER TRAIL</u> Owner's Permit No. <u>63-88-2-142-000</u>	7. WATER LEVEL Static water level <u>35</u> feet below land surface. Flowing? ☐ Yes ☐ No G.P.M. flow _____ Artesian closed-in pressure _____ p.s.i. Controlled by: ☐ Valve ☐ Cap ☐ Plug Temperature _____ °F. Quality <u>8.6 PPM</u> Describe artesian or temperature zones below _____																																																				
2. NATURE OF WORK ☒ New well ☐ Deepened ☐ Replacement ☐ Abandoned (describe abandonment procedures such as materials, plug depths, etc. in lithologic log)	8. WELL TEST DATA ☐ Pump ☒ Bailor ☐ Air ☐ Other _____ <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <tr> <th>Discharge G.P.M.</th> <th>Pumping Level</th> <th>Hours Pumped</th> </tr> <tr> <td><u>20</u></td> <td><u>40</u></td> <td><u>2</u></td> </tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </table>	Discharge G.P.M.	Pumping Level	Hours Pumped	<u>20</u>	<u>40</u>	<u>2</u>																																														
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3. PROPOSED USE ☒ Domestic ☐ Irrigation ☐ Test ☐ Municipal ☐ Industrial ☐ Stock ☐ Waste Disposal or Injection ☐ Other _____ (specify type)	9. LITHOLOGIC LOG 021678 <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th rowspan="2">Bore 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><u>6</u></td><td><u>0</u></td><td><u>8</u></td><td><u>BROWN SAND</u></td><td> </td><td> </td></tr> <tr><td> </td><td><u>8</u></td><td><u>12</u></td><td><u>GRAVEL</u></td><td> </td><td> </td></tr> <tr><td> </td><td><u>12</u></td><td><u>48</u></td><td><u>BROWN SAND</u></td><td> </td><td> </td></tr> <tr><td> </td><td><u>48</u></td><td><u>55</u></td><td><u>BROWN CLAY</u></td><td> </td><td> </td></tr> <tr><td> </td><td><u>55</u></td><td><u>70</u></td><td><u>BROWN SAND</u></td><td> </td><td> </td></tr> <tr><td> </td><td><u>70</u></td><td><u>77</u></td><td><u>GRAVEL</u></td><td> </td><td> </td></tr> <tr><td> </td><td><u>77</u></td><td> </td><td><u>GRAVEL</u></td><td> </td><td> </td></tr> </tbody> </table>	Bore Diam.	Depth		Material	Water		From	To	Yes	No	<u>6</u>	<u>0</u>	<u>8</u>	<u>BROWN SAND</u>				<u>8</u>	<u>12</u>	<u>GRAVEL</u>				<u>12</u>	<u>48</u>	<u>BROWN SAND</u>				<u>48</u>	<u>55</u>	<u>BROWN CLAY</u>				<u>55</u>	<u>70</u>	<u>BROWN SAND</u>				<u>70</u>	<u>77</u>	<u>GRAVEL</u>				<u>77</u>		<u>GRAVEL</u>		
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4. METHOD DRILLED ☐ Rotary ☐ Air ☐ Hydraulic ☐ Reverse rotary ☒ Cable ☐ Dug ☐ Other _____	DECEASED JUN 20 1989 Department of Water Resources REC-11 JUL 21 1989 Department of Water Resources MICROFILMED JUN 13 1990																																																				
5. WELL CONSTRUCTION Casing schedule: ☒ Steel ☐ Concrete ☐ Other _____ <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <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>6</u> inches</td> <td><u>1</u> feet</td> <td><u>76</u> feet</td> </tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table> 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 <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th>Number</th> <th>From</th> <th>To</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table> 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>18</u> Material used in seal: ☐ Cement grout ☐ Bentonite ☐ Puddling clay ☐ _____ Sealing procedure used: ☐ Slurry pit ☒ Temp. surface casing ☐ Overbore to seal depth Method of joining casing: ☐ Threaded ☒ Welded ☐ Solvent Weld ☐ Cemented between strata Describe access port _____	Thickness	Diameter	From	To	<u>250</u> inches	<u>6</u> inches	<u>1</u> feet	<u>76</u> feet													Number	From	To										10. Work started <u>8-9-88</u> finished <u>8-11-88</u>																				
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6. LOCATION OF WELL Sketch map location <u>must</u> agree with written location. Subdivision Name _____ Lot No. _____ Block No. _____ County <u>CANYON</u> <u>SW 1/4 SE 1/4 Sec. 21, T. 4 N. R. 5 W.</u>	11. DRILLERS CERTIFICATION OK I/We certify that all minimum well construction standards were complied with at the time the rig was removed. <u>KENNETH METZER</u> Firm Name <u>WELL DRILLING</u> Firm No. <u>93</u> <u>RT2 BOX 2</u> Address <u>HOMERDALE TRAIL</u> Date <u>8-15-88</u> Signed by (Firm Official) <u>Kenneth Metzer</u> and (Operator) _____																																																				

603

Form 238-7
6/02IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

837859

Office Use Only

Well ID No. 408286

Inspected by _____

Twp _____ Rge _____ Sec _____

1/4 1/4 1/4

Lat: : : Long: : :

1. WELL TAG NO. D 0042362

DRILLING PERMIT NO _____

Water Right or Injection Well No _____

2. OWNER:

Name KENNETH L. & LINDA DILLONAddress 27732 LOWER PLEASANT RIDGE RD.City WILDER State ID Zip 83676

3. LOCATION OF WELL by legal description:

You must provide address or Lot, Blk Sub. or Directions to well

Twp 4 North ☒ or South ☐Rge 5 East ☐ or West ☒Sec 21 1/4 SW 1/4 SE 1/4Gov't Lot _____ County CANYON

Lat: : : Long: : :

Address of Well Site 27732 LOWER PLEASANTRIDGE RD. City WILDER

(Give at least name of road + Distance to Road or Landmark)

Lt _____ Blk _____ Sub. Name _____

4. USE:

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

5. TYPE OF WORK check all that apply (Replacement etc)

☒ New Well ☐ Modify ☐ Abandonment ☐ Other _____

6. DRILL METHOD:

☐ Air Rotary ☒ Cable ☐ Mud Rotary ☐ Other _____

7. SEALING PROCEDURES

Seal Material	From	To	Weight / Volume	Seal Placement Method
BENTONITE	0	18	8 BAGS	GRAUT-DRY

Was drive shoe used? ☒ Y ☐ N Shoe Depth(s) 51'Was drive shoe seal tested? ☒ Y ☐ N How? BAILED

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
6	1	51	250	STEEL	☒	☐	☒	☐

Length of Headpipe _____ Length of Tailpipe _____

Packer ☐ Y ☐ N Type _____

9. PERFORATIONS/SCREENS PACKER TYPE

Perforation Method _____

Screen Type & Method of Installation _____

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
						☐	☐
						☐	☐
						☐	☐

10. FILTER PACK

Filter Material	From	To	Weight / Volume	Placement Method

11. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

20 ft below ground Artesian pressure _____ lb.

Depth flow encountered _____ ft Describe access port or control devices: _____

12. WELL TESTS:

☐ Pump ☒ Bailer ☐ Air ☐ Flowing Artesian

Yield gal/min	Drawdown	Pumping Level	Time
15	10	30	14RS.

Water Temp 62° Bottom hole temp _____Water Quality test or comments: 9 GRNS.

Depth first Water Encounter _____

13. LITHOLOGIC LOG: (Describe repairs or abandonment)

Water

Bore Dia.	From	To	Remarks: Lithology Water Quality & Temperature	Y	N
6	0	13	BROWN SAND		—
	13	36	GRAVEL		—
	36	44	BLACK SAND		—
	44	62	BLUE CLAY		—
	62		BLACK-SAND-GRAVEL	—	

RECEIVED

JAN 31 2006

WATER RESOURCES
WESTERN REGIONCompleted Depth 62' (Measurable)Date: Started 12-8-05 Completed 12-13-05

14. DRILLER'S CERTIFICATION

I/We certify that all minimum well construction standards were complied with at the time the rig was removed

Company Name KANNE METZER OIL Firm No. 93Principal Driller Kanne Metzer Date 12-18-05and Driller or Operator II Dennis Dine Date 12-18-08

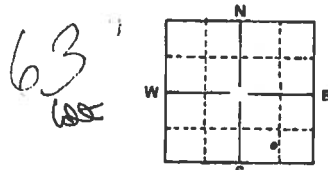
Operator I _____ Date _____

Principal Driller and Rig Operator Required
Operator I must have signature of Driller/Operator II

FORWARD WHITE COPY TO WATER RESOURCES

WELL DRILLER'S REPORT

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

1. WELL OWNER Name <u>Woodrow Bradford</u> Address <u>WILDER IDAHO</u> Owner's Permit No. _____	7. WATER LEVEL Static water level <u>23</u> feet below land surface Flowing? ☐ Yes ☐ No G.P.M. flow _____ Temperature _____ ° F. Quality <u>GOOD</u> <u>9 G.P.M.</u> 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. <u>24</u> Draw Down <u>10</u> Hours Pumped <u>1</u>																																																				
3. PROPOSED USE ☒ Domestic ☐ Irrigation ☐ Test ☐ Municipal ☐ Industrial ☒ Stock	9. LITHOLOGIC LOG <u>033962</u> <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>6</td><td>0</td><td>4</td><td>TOPSOIL</td><td></td><td></td></tr><tr><td></td><td>4</td><td>6</td><td>HARDPAN</td><td></td><td></td></tr><tr><td></td><td>6</td><td>11</td><td>GRAVEL</td><td></td><td></td></tr><tr><td></td><td>11</td><td>37</td><td>SANDY BROWN CLAY</td><td></td><td></td></tr><tr><td></td><td>37</td><td>46</td><td>BROWN SAND</td><td></td><td></td></tr><tr><td></td><td>46</td><td>56</td><td>GRAVEL</td><td></td><td></td></tr><tr><td></td><td>56</td><td></td><td>GRAVEL</td><td></td><td></td></tr></tbody></table>	Hole Diam.	Depth		Material	Water		From	To	Yes	No	6	0	4	TOPSOIL				4	6	HARDPAN				6	11	GRAVEL				11	37	SANDY BROWN CLAY				37	46	BROWN SAND				46	56	GRAVEL				56		GRAVEL		
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	56		GRAVEL																																																		
4. METHOD DRILLED ☒ Cable ☐ Rotary ☐ Dug ☐ Other																																																					
5. WELL CONSTRUCTION Diameter of hole <u>6</u> inches Total depth <u>56</u> feet Casing schedule: ☒ Steel ☐ Concrete Thickness <u>250</u> inches Diameter <u>6</u> inches From <u>1</u> feet To <u>53</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 ☒ 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? ☒ Yes ☐ No To what depth <u>18</u> feet Material used in seal ☐ Cement grout ☒ Pudding clay																																																					
6. LOCATION OF WELL Sketch map location must agree with written location. <u>63</u>  County <u>CANYON</u> <u>SW 1/4 SE 1/4 Sec. 21, T. 4 N, R. 5 W</u>	10. Work started <u>July-23-73</u> finished <u>July-23-73</u>																																																				
	11. DRILLER'S CERTIFICATION This well was drilled under my supervision and this report is true to the best of my knowledge. <u>HETZER WELL DRILLING</u> <u>93</u> Driller's or Firm's Name Number <u>Box 511 HOMEDALE IDAHO</u> Address <u>Kenneth M. Hetzer</u> <u>July 23, 73</u> Signed By Date																																																				

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.

~~AUG 09 1993~~

IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

845902

Office Use Only
Well ID No. 415971
Inspected by _____
Twp _____ Rge _____ Sec _____
1/4 _____ 1/4 _____ 1/4 _____
Lat: _____ Long: _____

1. WELL TAG NO. D D0047905 - Lost, replacement D0047993
DRILLING PERMIT NO. _____
Water Right or Injection Well No. _____

2. OWNER:
Name Vicki St. John
Address 114 S. Kimball Av.
City COLDWELL State ID Zip 83605

3. LOCATION OF WELL by legal description:

You must provide address or Lot, Blk, Sub. or Directions to well.

Twp. 4 North ☒ or South ☐
Rge. 5 East ☐ or West ☒
Sec. 21 1/4 SW 1/4 NE 1/4
Gov't Lot _____ County CANYON
Lat: _____ Long: _____
Address of Well Site Highway 19 E FARGO NE
City WILDER CORNER
(3 or 4 lot name of road - Distance to Road or Landmark)
L1. Blk. Sub. Name PARTIAL 3

4. USE:

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

5. TYPE OF WORK check all that apply (Replacement etc.)

☒ New Well ☐ Modify ☐ Abandonment ☐ Other _____

6. DRILL METHOD:

☒ Air Rotary ☐ Cable ☐ Mud Rotary ☐ Other _____

7. SEALING PROCEDURES

Seal Material	From	To	Weight / Volume	Seal Placement Method
<u>Bentonite</u>	<u>0</u>	<u>18</u>	<u>500 lbs</u>	<u>10" over bore</u>

Was drive shoe used? ☒ Y ☐ N Shoe Depth(s) 280'
Was drive shoe seal tested? ☒ Y ☐ N How? DRY HOLE

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
<u>6" + 3</u>	<u>277</u>	<u>250</u>		<u>Steel</u>	☒	☐	☒	☐

Length of Headpipe _____ Length of Tailpipe _____
Packer ☐ Y ☐ N Type _____

9. PERFORATIONS/SCREENS PACKER TYPE

Perforation Method FACTORY
Screen Type & Method of Installation PVC

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
<u>263</u>	<u>283</u>	<u>20"</u>		<u>4 1/2"</u>	<u>PVC</u>	☐	☒

10. FILTER PACK

Filter Material	From	To	Weight / Volume	Placement Method

11. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

175 ft. below ground Artesian pressure _____ lb.
Depth flow encountered _____ ft. Describe access port or control devices: WELL CAP

12. WELL TESTS:

☐ Pump ☐ Bailor ☒ Air ☐ Flowing Artesian

Yield gal./min.	Drawdown	Pumping Level	Time
<u>40</u>			<u>36 HRS.</u>

Water Temp. _____ Bottom hole temp. _____

Water Quality test or comments: _____

13. LITHOLOGIC LOG: (Describe repairs or abandonment)

Bore Dia.	From	To	Remarks: Lithology, Water Quality & Temperature	Y	N
<u>10"</u>	<u>0</u>	<u>18</u>	<u>CEMENTED GRAVEL</u>		
<u>6"</u>	<u>18</u>	<u>32</u>	<u>CEMENTED GRAVEL</u>		
<u>6"</u>	<u>32</u>	<u>38</u>	<u>SAND</u>		
<u>6"</u>	<u>38</u>	<u>43</u>	<u>CLAY</u>		
<u>6"</u>	<u>43</u>	<u>70</u>	<u>SANDSTONE</u>		
<u>6"</u>	<u>70</u>	<u>125</u>	<u>SAND</u>		
<u>6"</u>	<u>125</u>	<u>131</u>	<u>LIGHT BLUE CLAY</u>		
<u>6"</u>	<u>131</u>	<u>145</u>	<u>SAND</u>		☒
<u>6"</u>	<u>145</u>	<u>200</u>	<u>SAND & CLAY STRIPS MIXED</u>		☒
<u>6"</u>	<u>200</u>	<u>285</u>	<u>SAND & GRAVEL</u>		☒

RECEIVED

APR 18 2007

WATER RESOURCES
WESTERN REGION

Completed Depth 288' (Measurable)

Date: Started 03/30/07 Completed 4-6-07

14. DRILLER'S CERTIFICATION

We certify that all minimum well construction standards were complied with at the time the rig was removed.

Company Name Knife Pump & Drilling Firm No. 417

Principal Driller Mike Knife Date 4-10-07

Driller or Operator II _____ Date _____

Operator I _____ Date _____

Principal Driller and Rig Operator Required.
Operator I must have signature of Driller/Operator II.

IDAHO DEPARTMENT OF WATER RESOURCES

WELL DRILLER'S REPORT

95152

Office Use Only			
Inspected by _____			
Twp _____	Rge _____	Sec _____	
1/4 _____		1/4 _____	
Lat: _____	Long: _____		
☒ Air ☐ Flowing Artesian			

1. WELL TAG NO. D 0009394
 DRILLING PERMIT NO. 63-99-W-0303-000
 Other IDWR No. _____

2. OWNER: Bob Dunkin
 Name _____
 Address PO Box 278
 City Wildor State ID Zip 83676

3. LOCATION OF WELL by legal description:

Sketch map location must agree with written location.

N		Twp. <u>4</u>		North ☒ or South ☐	
W		Rge. <u>5</u>		East ☐ or West ☒	
E		Sec. <u>21</u>		1/4 <u>SW</u> 1/4 <u>NE</u> 1/4	
S		Gov't Lot _____		County <u>Canyon</u> 10 acres 40 acres 160 acres	
		Lat: _____		Long: _____	
		Address of Well Site <u>26750 Desert Nills</u>		City <u>Wildor</u>	

(Give at least name of road + Distance to Road or Landmark)

Lt. _____ Bk. _____ Sub. Name _____

4. USE:

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

5. TYPE OF WORK check all that apply. (Replacement etc.)

☒ New Well ☐ Modify ☐ Abandonment ☐ Other _____

6. DRILL METHOD

☒ Air Rotary ☐ Cable ☐ Mud Rotary ☐ Other _____

7. SEALING PROCEDURES

SEAL/FILTER PACK			AMOUNT		METHOD
Material	From	To	Sacks or Pounds		
Dry Gran Bent	0	18	300 lb	Overbore	
Well Cuttings					

Was drive shoe used? ☒ N ☐ Shoe Depth(s) 220
 Was drive shoe seal tested? ☐ Y ☒ N How? _____

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
6	+2	220	1/4	Steel	☒	☐	☒	☐
					☐	☐	☐	☐

Length of Headpipe _____ Length of Tailpipe _____

9. PERFORATIONS/SCREENS

Perforations _____ Method _____
 Screens _____ Screen Type _____

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
						☐	☐
						☐	☐

10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

147 ft. below ground Artesian pressure _____ lb.
 Depth flow encountered _____ ft. Describe access port or control devices: Sanitary Well Cap

11. WELL TESTS:

☐ Pump ☐ Bailor

Yield gal./min.	Drawdown	Pumping Level	Time
30	NA	200	1 Hr

Water Temp. 59° Bottom hole temp. NA
 Water Quality test or comments: Clear

Depth first Water Encounter 84

12. LITHOLOGIC LOG: (Describe repairs or abandonment)

Bore Dia	From	To	Remarks: Lithology, Water Quality & Temperature	Y	N
10	0	6	Sandy Soil		K
10	6	18	Sandy Brn Clay		K
6	18	32	Sandy Brn Clay		K
6	32	36	Gravel + Brn Clay		K
6	36	84	Brn Clay		K
6	84	97	Brn Clay layered Thin Sand	K	
6	97	116	Brn Clay		K
6	116	162	Sandy Brn Clay		K
6	162	180	Brn Clay		K
6	180	196	Brn Clay Thin Sand Layer 15 GPM	K	
6	196	205	Brn Clay		K
6	205	225	Blu Clay		K
6	225	227	Blu Cinder Sand	K	
6	227	247	Blu Clay		K
6	247	255	Blu Cinder Sand	K	
6	255	260	Blu Clay		

RECEIVED

RECEIVED

MAY 11 1999

MAY 06 1999

MICROFILME

AUG 25 1999
 Department of Water Resources

WATER RESOURCES
 WESTERN REGION

Completed Depth 250 (Measurable)
 Date: Started 4/30/99 Completed 4/30/99

13. DRILLER'S CERTIFICATION

I/We certify that all minimum well construction standards were complied with at the time the rig was removed.

Company Name Domestic Pump & Drill Firm No. 483

Firm Official _____ Date _____
 and _____
 Driller or Operator JK Duncan Date 4/30/99

(Sign once if Firm Official & Operator)

FORWARD WHITE COPY TO WATER RESOURCES

WELL DRILLER'S REPORT

RECEIVED

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

1. WELL OWNER Name <u>Johnson's Cattle Co.</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 ☒ Bailer ☐ Other Discharge G.P.M. _____ Draw Down _____ Hours Pumped _____																																																																																			
3. PROPOSED USE ☒ Domestic ☐ Irrigation ☐ Test ☐ Municipal ☐ Industrial ☒ Stock		9. LITHOLOGIC LOG 041759																																																																																			
4. METHOD DRILLED ☐ Cable ☒ Rotary ☐ Dug ☐ Other		<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>20"</td><td>0'</td><td>65'</td><td>Surf & gravel</td><td>X</td><td>X</td></tr><tr><td></td><td>65'</td><td>80'</td><td>Sand & gravel</td><td>X</td><td></td></tr><tr><td></td><td>80'</td><td>105'</td><td>Sandy clay</td><td></td><td>X</td></tr><tr><td></td><td>105'</td><td>125'</td><td>Black sand coarse</td><td></td><td></td></tr><tr><td></td><td>125'</td><td>135'</td><td>Blue shale</td><td>X</td><td></td></tr><tr><td></td><td>135'</td><td>210'</td><td>Black sand</td><td>X</td><td></td></tr><tr><td></td><td>210'</td><td>235'</td><td>Blue shale</td><td></td><td>X</td></tr><tr><td></td><td>235'</td><td>245'</td><td>Coarse sand with gravel</td><td>X</td><td></td></tr><tr><td></td><td></td><td></td><td>Gravel Packed</td><td></td><td></td></tr><tr><td></td><td></td><td></td><td>Bottom 13'</td><td></td><td></td></tr><tr><td></td><td></td><td></td><td>Feet with</td><td></td><td></td></tr><tr><td></td><td></td><td></td><td>No casing</td><td></td><td></td></tr></tbody></table>		Hole Diam.	Depth		Material	Water		From	To	Yes	No	20"	0'	65'	Surf & gravel	X	X		65'	80'	Sand & gravel	X			80'	105'	Sandy clay		X		105'	125'	Black sand coarse				125'	135'	Blue shale	X			135'	210'	Black sand	X			210'	235'	Blue shale		X		235'	245'	Coarse sand with gravel	X					Gravel Packed						Bottom 13'						Feet with						No casing		
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5. WELL CONSTRUCTION Diameter of hole <u>20'</u> inches Total depth <u>245'</u> feet Casing schedule: ☒ Steel ☐ Concrete Thickness _____ inches Diameter _____ inches From _____ feet To _____ feet _____ inches _____ inches _____ feet _____ feet _____ inches _____ inches _____ feet _____ feet _____ inches _____ inches _____ feet _____ feet _____ inches _____ inches _____ feet _____ feet Was a packer or seal used? ☐ Yes ☒ No Perforated? ☒ Yes ☐ No How perforated? ☐ Factory ☐ Knife ☒ Torch Size of perforation <u>18</u> inches by <u>7</u> inches Number _____ From _____ To _____ _____ perforations <u>212</u> feet <u>232</u> feet _____ perforations <u>105</u> feet <u>125</u> feet _____ perforations <u>70</u> feet <u>85</u> feet Well screen installed? ☒ Yes ☐ No Manufacturer's name <u>Johnson's</u> Type _____ Model No. _____ Diameter <u>12</u> Slot size <u>100</u> Set from <u>105</u> feet to <u>125</u> feet Diameter _____ Slot size _____ Set from _____ feet to _____ feet Gravel packed? ☒ Yes ☐ No Size of gravel <u>5/8 -</u> Placed from <u>20</u> feet to <u>245</u> feet Surface seal? ☒ Yes ☐ No To what depth <u>30</u> feet Material used in seal ☒ Cement grout ☐ Puddling clay																																																																																					
6. LOCATION OF WELL Sketch map location must agree with written location. County _____ S E 1/4 NW 1/4 Sec. 21, T. 4N, R. 5W, E. 1W		10. Work started <u>May 14-74</u> finished <u>May 30-74</u>																																																																																			
		11. DRILLER'S CERTIFICATION This well was drilled under my supervision and this report is true to the best of my knowledge. <u>K. H. Well Drilling</u> Driller's Firm's Name _____ Number _____ Signed By <u>Barry Howell</u> Date <u>May 30-74</u>																																																																																			

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.

1. WELL OWNER

Name Robert Suter

Address Rt 1 Wilder

Owner's Permit No. _____

2. NATURE OF WORK

☒ New well

☐ Deepened

☐ Replacement

☐ Abandoned (describe method of abandoning)

3. PROPOSED USE

☒ Domestic

☐ Irrigation

☐ Test

☐ Other (specify type)

☐ Municipal

☐ Industrial

☐ Stock

☐ Waste Disposal or Injection

4. METHOD DRILLED

☒ Cable

☐ Rotary

☐ Dug

☐ Other

5. WELL CONSTRUCTION

Diameter of hole 8 inches

Total depth 175 feet

Casing schedule: ☐ Steel ☐ Concrete

Thickness 250 inches

Diameter 8.500 inches

From 1 feet

To 145 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 20'

Material used in seal ☐ Cement grout

☒ Puddling clay

☐ Well cuttings

Sealing procedure used ☐ Shurry pit ☐ Temporary surface casing

☒ Overbore to seal depth

6. LOCATION OF WELL

Sketch map location must agree with written location. 63

Subdivision Name _____

Lot No. _____ Block No. _____

County Canyon

N.W. 1 S.W. 4 Sec. 21 T. 4 N.E. 5 E.W. 1

7. WATER LEVEL

Static water level 105 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

8. WELL TEST DATA

☐ Pump ☒ Bailor ☐ Other

Discharge G.P.M. 22

Draw Down 12'

Hours Pumped 1

9. LITHOLOGIC LOG

Hole Diam. From To

8" 0' 25'

8" 25' 30'

8" 30' 67'

8" 67' 87'

8" 87' 125'

8" 125' 145'

8" 145' 175'

8" 175' 180'

Material 104099

Top Soil

Hard Pan

Yellow Clay

Brown Sand

Sand Brown Clay

Sand

Yellow Clay

Coarse Brown Sand

Water Yes No

10. WORK STARTED 4-12-78 FINISHED 4-19-78

11. DRILLERS CERTIFICATION

Firm Name Denzil Metzger Drilling Firm No. 345

Address Home date Date 4-19-78

Signed by (Firm Official) Denzil M. Metzger

and Floyd E. Winters

(Operator)

USE ADDITIONAL SHEETS IF NECESSARY

FORWARD THE WHITE COPY TO THE DEPARTMENT

IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

1. WELL TAG NO. D 0052222
DRILLING PERMIT NO. _____
Water Right or Injection Well No. _____

2. OWNER:
Name Shawn Mikelson
Address 20755 Rodeo Ln.
City Wilder State Id Zip 83676

3. LOCATION OF WELL by legal description:
You must provide address or Lot, Blk, Sub. or Directions to well.
Twp. 4 North ☒ or South ☐
Rge. 5 East ☐ or West ☒
Sec. 21 NW 1/4 SW 1/4 1/4
Gov't Lot _____
County Canyon 10 acres 40 acres 160 acres
Lat: _____ Long: _____
Address of Well Site 20755 Rodeo Ln
City Wilder
(Give at least name of road - Distance to Road or Landmark)
Lt. _____ Blk. _____ Sub. Name _____

4. USE:
☒ Domestic ☐ Municipal ☐ Monitor ☐ Irrigation
☐ Thermal ☐ Injection ☐ Other _____

5. TYPE OF WORK check all that apply (Replacement etc.)
☒ New Well ☐ Modify ☐ Abandonment ☐ Other _____

6. DRILL METHOD:
☒ Air Rotary ☐ Cable ☐ Mud Rotary ☐ Other _____

7. SEALING PROCEDURES

Seal Material	From	To	Weight / Volume	Seal Placement Method
<u>Bentonite</u>	<u>0</u>	<u>18'</u>	<u>12</u>	<u>dry pour</u>

Was drive shoe used? ☒ Y ☐ N Shoe Depth(s) 308'
Was drive shoe seal tested? ☒ Y ☐ N How? _____

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
<u>6"</u>	<u>2'</u>	<u>306'</u>	<u>250</u>	<u>Steel</u>	☒	☐	☒	☐

Length of Headpipe 5' Length of Tailpipe 0
Packer ☒ Y ☐ N Type K-pak

9. PERFORATIONS/SCREENS PACKER TYPE

Perforation Method					
Screen Type & Method of Installation <u>FACTORY</u>					
From	To	Slot Size	Number	Diameter	Material
<u>298'</u>	<u>308'</u>	<u>20</u>		<u>5"</u>	<u>Stainless</u>

10. FILTER PACK

Filter Material	From	To	Weight / Volume	Placement Method
<u>no</u>				

11. STATIC WATER LEVEL OR ARTESIAN PRESSURE:
180 ft. below ground Artesian pressure _____ lb.
Depth flow encountered _____ ft. Describe access port or control devices: well cap

848791
Office Use Only
Well ID No. 418692
Inspected by _____
Twp. _____ Rge. _____ Sec. _____
1/4 1/4 1/4
Lat: _____ Long: _____

12. WELL TESTS:

Yield gal./min.	Drawdown	Pumping Level	Time
<u>50</u>			<u>1 hr</u>

Water Temp. 55° Bottom hole temp. _____

Water Quality test or comments: good

Depth first Water Encounter 245'

13. LITHOLOGIC LOG: (Describe repairs or abandonment)

Bore Dia.	From	To	Remarks: Lithology, Water Quality & Temperature	Y	N
10"	0	12'	Topsoil		
10"	12'	35'	gravel		
6"	35'	145'	Brown clay		
6"	145'	150'	Blue sand		
6"	150'	180'	coarse gravel		
6"	180'	200'	Blue sand		
6"	200'	210'	Broken lava		
6"	210'	230'	Blue sand		
6"	230'	250'	Broken lava		
6"	250'	260'	Black sand		
6"	260'	300'	coarse gravel		
6"	300'	308'	sand		

RECEIVED

SEP 19 2007

WATER RESOURCES
WESTERN REGION

Completed Depth 308' (Measurable)
Date: Started 8-27-07 Completed 9-1-07

14. DRILLER'S CERTIFICATION

I/we certify that all minimum well construction standards were complied with at the time the rig was removed.

Company Name Clearwater Drilling Firm No. 382

Principal Driller Blair Kannon Date 9-7-07

and
Driller or Operator II _____ Date _____

Operator I _____ Date _____

Principal Driller and Rig Operator Required.
Operator I must have signature of Driller/Operator II.

FORWARD WHITE COPY TO WATER RESOURCES

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.

1. WELL OWNER Name <u>MERTON TROST</u> Address <u>Route # 1 Wilder Idaho 83676</u> Owner's Permit No. _____	7. WATER LEVEL Static water level <u>80</u> feet below land surface. Flowing? ☐ Yes ☒ No G.P.M. flow _____ Artesian closed-in pressure _____ p.s.i. Controlled by: ☐ Valve ☐ Cap ☐ Plug Temperature _____ °F. Quality _____																																																				
2. NATURE OF WORK ☒ New well ☐ Deepened ☐ Replacement ☐ Abandoned (describe method of abandoning) _____	8. WELL TEST DATA ☐ Pump ☐ Bailer ☒ Air ☐ Other _____ <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Discharge G.P.M.</th> <th>Pumping Level</th> <th>Hours Pumped</th> </tr> </thead> <tbody> <tr> <td align="center">40</td> <td></td> <td align="center">2</td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	Discharge G.P.M.	Pumping Level	Hours Pumped	40		2																																														
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4. METHOD DRILLED ☐ Rotary ☒ Air ☐ Hydraulic ☐ Reverse rotary ☐ Cable ☐ Dug ☐ Other _____																																																					
5. WELL CONSTRUCTION Casing schedule: ☒ Steel ☐ Concrete ☐ Other _____ <table border="0" style="width: 100%;"> <tr> <td>Thickness</td> <td>Diameter</td> <td>From</td> <td>To</td> </tr> <tr> <td>.250 inches</td> <td>6 inches</td> <td>+ 3 feet</td> <td>96' 10" feet</td> </tr> <tr> <td>_____ inches</td> <td>_____ inches</td> <td>_____ feet</td> <td>_____ feet</td> </tr> <tr> <td>_____ inches</td> <td>_____ inches</td> <td>_____ feet</td> <td>_____ feet</td> </tr> <tr> <td>_____ inches</td> <td>_____ inches</td> <td>_____ feet</td> <td>_____ feet</td> </tr> </table> 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 <table border="0" style="width: 100%;"> <tr> <td>Number</td> <td>From</td> <td>To</td> </tr> <tr> <td>_____ perforations</td> <td>_____ feet</td> <td>_____ feet</td> </tr> <tr> <td>_____ perforations</td> <td>_____ feet</td> <td>_____ feet</td> </tr> <tr> <td>_____ perforations</td> <td>_____ feet</td> <td>_____ feet</td> </tr> </table> 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 Weld ☐ Cemented between strata Describe access port _____		Thickness	Diameter	From	To	.250 inches	6 inches	+ 3 feet	96' 10" feet	_____ inches	_____ inches	_____ feet	_____ feet	_____ inches	_____ inches	_____ feet	_____ feet	_____ inches	_____ inches	_____ feet	_____ feet	Number	From	To	_____ perforations	_____ feet	_____ feet	_____ perforations	_____ feet	_____ feet	_____ perforations	_____ feet	_____ feet																				
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6. LOCATION OF WELL Sketch map location must agree with written location. Subdivision Name _____ Lot No. _____ Block No. _____ County <u>Canyon</u> nw ¼ se ¼ Sec. <u>21</u>, T. <u>4</u> N. R. <u>5</u> W.	10. Work started <u>5-15-79</u> finished <u>5-15-79</u>																																																				
11. DRILLERS CERTIFICATION I/We certify that all minimum well construction standards were complied with at the time the rig was removed. Firm Name <u>BILL DOTY WELL DRILLING</u> Firm No. <u>42</u> Address <u>Route #7 Caldwell</u> Date <u>5-15-79</u> Signed by (Firm Official) <u>Bill Doty</u> and (Operator) <u>Bob Doty</u>																																																					

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

IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT1. WELL TAG NO. D 25296
DRILLING PERMIT NO. _____
Water Right or Injection Well No. _____

2. OWNER:

Name Linda Armenta
Address Pride Ln
City Caldwell State ID Zip 83605

3. LOCATION OF WELL by legal description:

You must provide address or Lot, Blk, Sub. or Directions to well.

Twp. 4 North ☒ or South ☐
Rge. 5 East ☐ or West ☒
Sec. 21 1/4 NW 1/4 SE 1/4
Gov't Lot _____ County CanyonLat: : : Long: : :
Address of Well Site To end of Hwy 19, cross Fargo
Rd. - 300' to the left City Wilder
(Give at least name of road - Distance to Road or Landmark)

Li. _____ Blk. _____ Sub. Name _____

4. USE:

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

5. TYPE OF WORK check all that apply

(Replacement etc.)

☒ New Well ☐ Modify ☐ Abandonment ☐ Other _____

6. DRILL METHOD:

☐ Air Rotary ☒ Cable ☐ Mud Rotary ☐ Other _____

7. SEALING PROCEDURES

Seal Material	From	To	Weight / Volume	Seal Placement Method
<u>Bentonite</u>	<u>0</u>	<u>19</u>	<u>400 LBS</u>	<u>Poured down annular</u>

Was drive shoe used? ☒ Y ☐ N Shoe Depth(s) 148.5'
Was drive shoe seal tested? ☒ Y ☐ N How? bailed below static

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
<u>6"</u>	<u>+2</u>	<u>148.5</u>	<u>250</u>	<u>Steel</u>	☒	☐	☒	☐

Length of Headpipe _____ Length of Tailpipe _____
Packer ☐ Y ☐ N Type _____

9. PERFORATIONS/SCREENS PACKER TYPE

Perforation Method _____
Screen Type & Method of Installation _____

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
						☐	☐
						☐	☐
						☐	☐

10. FILTER PACK

Filter Material	From	To	Weight / Volume	Placement Method

11. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

85' ft. below ground Artesian pressure _____ lb.
Depth flow encountered 159 ft. Describe access port or control devices: unbolt well cap

Office Use Only			
Well ID No.	_____		
Inspected by	_____		
Twp	Rge	Sec	
1/4	1/4	1/4	
Lat: : :	Long: : :		

12. WELL TESTS:

☐ Pump ☒ Bailor ☐ Air ☐ Flowing Artesian

Yield gal/min.	Drawdown	Pumping Level	Time
<u>22</u>	<u>2'</u>	<u>87'</u>	<u>1 hr</u>

Water Temp. 61° Bottom hole temp 61°Water Quality test or comments: goodDepth first Water Encounter 129'

13. LITHOLOGIC LOG: (Describe repairs or abandonment)

Water

Bore Dia.	From	To	Remarks: Lithology, Water Quality & Temperature	Y	N
<u>10</u>	<u>0</u>	<u>10</u>	<u>Blow Sand</u>		☒
<u>10</u>	<u>10</u>	<u>11</u>	<u>sand & gravel</u>		☒
<u>10</u>	<u>11</u>	<u>19</u>	<u>Blow Sand</u>		☒
<u>7 1/2</u>	<u>19</u>	<u>27</u>	<u>Blow Sand</u>		☒
<u>7 1/2</u>	<u>27</u>	<u>28</u>	<u>Gravel</u>		☒
<u>7 1/2</u>	<u>28</u>	<u>55</u>	<u>Blow Sand</u>		☒
<u>7 1/2</u>	<u>55</u>	<u>73</u>	<u>Brown clay & some gravels</u>		☒
<u>7 1/2</u>	<u>73</u>	<u>83</u>	<u>Blow Sand</u>		☒
<u>7 1/2</u>	<u>83</u>	<u>129</u>	<u>Brown clay & some gravels</u>		☒
<u>7 1/2</u>	<u>129</u>	<u>130</u>	<u>gravel</u>	☒	
<u>7 1/2</u>	<u>130</u>	<u>137</u>	<u>brown clay</u>		☒
<u>7 1/2</u>	<u>137</u>	<u>141</u>	<u>Cemented gravel</u>		☒
<u>7 1/2</u>	<u>141</u>	<u>144</u>	<u>gravel & orange water</u>	☒	
<u>7 1/2</u>	<u>144</u>	<u>145</u>	<u>Sandy black clay</u>		☒
<u>7 1/2</u>	<u>145</u>	<u>147</u>	<u>Fine blue sand</u>	☒	
<u>7 1/2</u>	<u>147</u>	<u>148.5</u>	<u>Blue clay</u>		☒
<u>6</u>	<u>148.5</u>	<u>154</u>	<u>blue clay</u>		☒
<u>6</u>	<u>154</u>	<u>156</u>	<u>sand streak in blue clay (2 gpm)</u>	☒	
<u>6</u>	<u>156</u>	<u>159</u>	<u>blue clay</u>		☒
<u>6</u>	<u>159</u>	<u>160</u>	<u>coarse sand & gut pile gravel</u>	☒	
<u>6</u>	<u>160</u>	<u>163</u>	<u>med. black & white sand</u>	☒	

RECEIVED

JUN 17 2004

WATER RESOURCES
WESTERN REGIONCompleted Depth 161' (Measurable)Date: Started 7-8-02 Completed 7-22-02

14. DRILLER'S CERTIFICATION

I/We certify that all minimum well construction standards we e complied with at the time the rig was removed. Recopied 6-16-04, RussCompany Name A-Line Firm No. 566Principal Driller Russell A. Johnston Date 8-1-02and Driller or Operator II Russell A. Johnston Date 8-1-02

Operator _____ Date _____

Principal Driller and Rig Operator Required.
Operator I must have signature of Driller/Operator II.

FORWARD WHITE COPY TO WATER RESOURCES

FORWARD WHITE COPY TO WATER RESOURCES

1. DRILLING PERMIT NO. 63-95-W-0256-000
Other IDWR No. _____

2. OWNER:

Name JIM ANDRIOR BEVERLY EWING
Address 28256 LOWER PISCATAWAY RD.
City WILDER State MD Zip 213276

3. LOCATION OF WELL by legal description:

Sketch map location must agree with written location.

N
 W E
 Twp. 4 North ☒ or South ☐
 Rge. 5 East ☐ or West ☒
 Sec. 20 1/4 SE 1/4 SE 1/4
 Gov't Lot _____ County CALYON

Address of Well Site LOWER PLEASANT

RIDGE RD. City WILDER
(Give at least name of road + Distance to Road or Landmark)

Lt. _____ Blk. _____ Sub. Name _____

4. PROPOSED USE:

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

5. TYPE OF WORK

☒ New Well ☐ Modify or Repair ☐ Replacement ☐ Abandonment

6. DRILL METHOD

☐ Mud Rotary ☐ Air Rotary ☒ Cable ☐ Other_____

7. SEALING PROCEDURES

SEAL/FILTER PACK			AMOUNT	METHOD
Material	From	To	Sacks or Pounds	
BENTONITE	0	15	9	GROUT

Was drive shoe used? ☒ Y ☐ N Shoe Depth(s) _____

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

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
6	#1	41	250	STEEL	☒	☐	☒	☐
					☐	☐	☐	☐
					☐	☐	☐	☐

Length of Headpipe _____ Length of Tailpipe _____

9. PERFORATIONS/SCREENS

☐ Perforations Method _____

☐ Screens Screen Type _____

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
						☐	☐
						☐	☐
						☐	☐

10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

20 ft. below ground Artesian pressure _____ lb.
Depth flow encountered _____ ft. Describe access port or
control devices: _____

11. WELL TESTS:

☐ Pump ☒ Baller ☐ Air ☐ Flowing Artesian

Yield gal./min.	Drawdown	Pumping Level	Time
15	2'	30	2

Water Temp. 54° Bottom hole temp. _____

Water Quality test or comments: 11 GRNS.

12. LITHOLOGIC LOG: (Describe repairs or abandonment) Water

[illegible]

13. DRILLER'S CERTIFICATION

I/We certify that all minimum well construction standards were complied with at the time the rig was removed.

Firm Name Keppe Metzger PRL Firm No. 93

Firm Official Kenneth M. Smith Date 4-21-95

Supervisor or Operator Kennel m. tw Date 4-21-95

(Sign once if Firm Official & Operator)

63

Form 238-7
6/02IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

837214

Office Use Only			
Well ID No.	407682		
Inspected by			
Twp	Rge	Sec	
1/4	1/4	1/4	
Lat:	:	:	Long:
:	:	:	:

1. WELL TAG NO. D 0042204
 DRILLING PERMIT NO _____
 Water Right or Injection Well No _____

2. OWNER:
 Name PETE CINTORINO
 Address 756 SOUTH MOON BEAM WAY
 City EAGLE State ID Zip 83616

3. LOCATION OF WELL by legal description:

You must provide address or Lot, Blk, Sub or Directions to well.

Twp 4 North ☒ or South ☐
 Rge. 5 East ☐ or West ☒
 Sec 20 1/4 SE 1/4 NE 1/4
 Gov't Lot _____ County CANYON
 Lat: _____ Long: _____
 Address of Well Site FISH RD

City Wilder
 (Give at least name of road + Distance to Road or Landmark)

Lt. _____ Blk. _____ Sub Name THE RIDGE AT
RIVER BEND PARCEL 14

4. USE:

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

5. TYPE OF WORK check all that apply

(Replacement etc)

☒ New Well ☐ Modify ☐ Abandonment ☐ Other _____

6. DRILL METHOD:

☒ Air Rotary ☐ Cable ☐ Mud Rotary ☐ Other _____

7. SEALING PROCEDURES

Seal Material	From	To	Weight / Volume	Seal Placement Method
BENTONITE	0	18	750	OVER BORE Dry Pour

Was drive shoe used? ☒ Y ☐ N Shoe Depth(s) 276

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

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
6"	+2	276	250	STEEL	☒	☐	☒	☐
4.5"	45	285	SC-40	PVC	☐	☒	☐	☐

Length of Headpipe _____ Length of Tailpipe _____

Packer ☐ Y ☒ N Type _____

9. PERFORATIONS/SCREENS PACKER TYPE

Perforation Method _____

Screen Type & Method of Installation PVC WIRE WRAP SCREEN

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
285	345	.020		4.5	PVC	☒	☐

10. FILTER PACK

Filter Material	From	To	Weight / Volume	Placement Method
N/A				

11. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

180 ft below ground Artesian pressure _____ lb

Depth flow encountered _____ ft. Describe access port or control devices: _____

SANITARY WELL CAP

12. WELL TESTS:

☐ Pump ☐ Bailor ☒ Air ☐ Flowing Artesian

Yield gal./min.	Drawdown	Pumping Level	Time
30		320	1 hr

Water Temp _____ Bottom hole temp _____

Water Quality test or comments: _____

Depth first Water Encounter _____

13 LITHOLOGIC LOG: (Describe repairs or abandonment)

Water

Bore Dia.	From	To	Remarks: Lithology Water Quality & Temperature	Y	N
10"	0	3	TOP SOIL		
1"	3	6	CLAY		
6"	6	16	GRAVEL		
6"	16	30	GRAVEL		
	30	40	SAND		
	40	60	SAND SOME GRAVEL		
	60	130	SAND		
	130	165	CLAY		
	165	190	COARSE SAND, PEA GRAVEL		
	190	200	BROWN CLAY		
	200	230	COARSE SAND, PEA GRAVEL		
	230	285	BLUE CLAY		
	285	345	COARSE SAND, GRAVEL, BLUE CLAY STREAKS		

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DEC 23 2005

WATER RESOURCES
WESTERN REGION

Completed Depth 345 (Measurable)

Date: Started 11-28-05 Completed 12-2-05

14. DRILLER'S CERTIFICATION

I/We certify that all minimum well construction standards were complied with at the time the rig was removed

Company Name RIVERSIDE INC Firm No 333

Principal Driller [Signature] Date 12-22-05

and Driller or Operator II _____ Date _____

Operator I [Signature] Date 12-22-05

Principal Driller and Rig Operator Required.
 Operator I must have signature of Driller/Operator II

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* Signature of Principal Driller and rig operator are required.

Exhibit 3

i·calcul⁸

Calculators and Tools

| Calculators ([Home](#))

- [Unit Converter](#)
- [Pump and Power Calculator](#)
- [Theis Equation](#)

| Administration

- [Unit Converter Control Panel](#)
- [Add a New User](#)

| Forum

- Coming Soon

Theis Equation Calculator

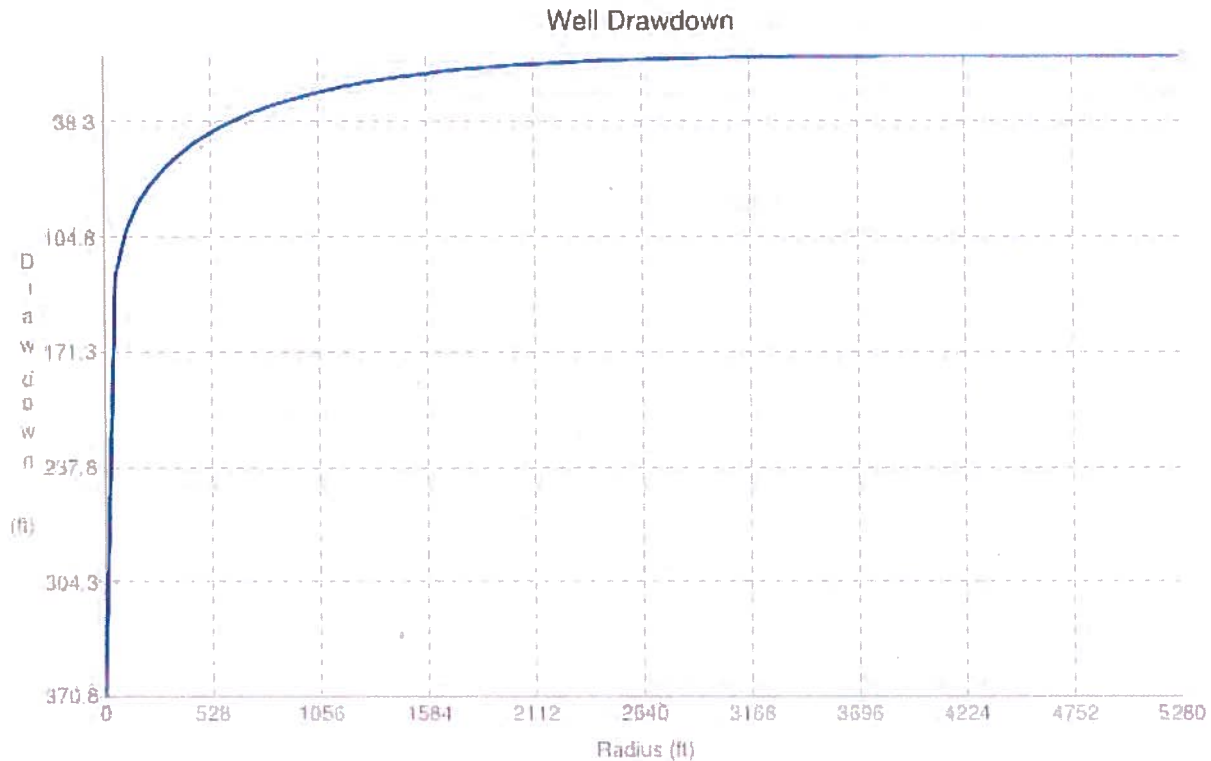
Calculation

Radius, (r)	2640	Foot
Storage Coefficient, (S)	0.15	
Transmissivity (T)	15000	GPD/ft
Time (t)	90	Days
Discharge, (Q)	5.57	CFS
☒ Drawdown, (s)	2.06	Foot

Function Parameters

$u = 1.87 \cdot r^2 \cdot S / (T \cdot t)$ for default units

Well Function, W(u)



Instructions:

The form at the top of this page may be used to calculate the drawdown associated with a specific well if the following parameters are known: Storage Coefficient, Transmissivity, and the Discharge Rate. The user will also supply arbitrary values for the radius and time. The resulting drawdown will be calculated using the Theis equation. The user may select specific units where available and the conversion happens automatically.

The user may also utilize this form to calculate other variables in the equation, however due to the complexity of the Theis equation, this process must be done iteratively by the user. The user must know the drawdown as well as four out of the five remaining variables. The user shall input the known variables into the respective fields and adjust the remaining variable until it corresponds with the known drawdown.

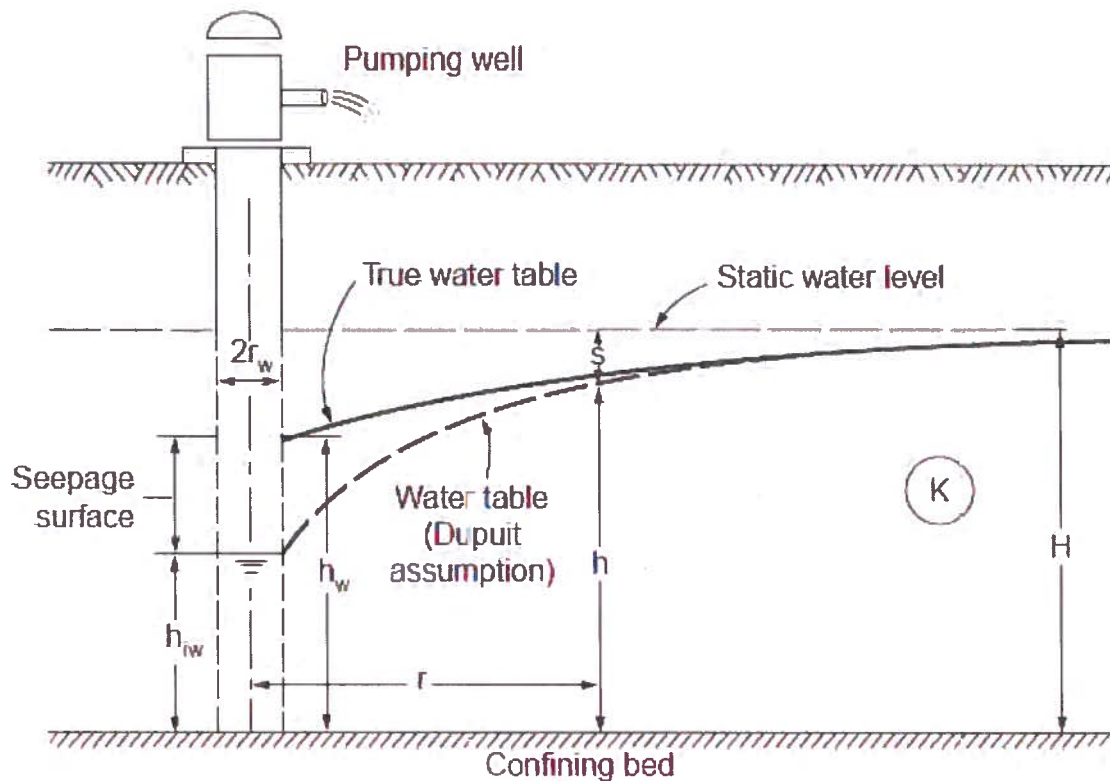
A chart is automatically generated for the input data. The chart is plotted through the use of Google Chart API. The X-axis range is determined at twice the entered radius value. Note that radii entered that are too small will not generate a proper chart. Take into account the well casing size and use this as a minimum. To get a decent chart, enter a value that is at least 20 times the diameter of the well casing.

Information:

This page was developed with information from the *Civil Engineering Handbook: Second Edition* edited by *W.F. Chen & J.Y. Richard Liew*.

Pumping a well causes a cone of depression, or drawdown, of the water table of an unconfined aquifer or of the piezometric surface for a confined aquifer. The drawdown $s(r,t)$ at a distance r

from a fully penetrating well at time t after the beginning of pumping at a constant rate Q from a confined aquifer with transmissivity T and storage constant S is given by the Theis equation:



$$u_a = r^2 S / (4 T t)$$

$$W(u) = -0.577216 - \ln u + u - \frac{u^2}{2 \times 2!} + \frac{u^3}{3 \times 3!} - \dots$$

$$s(r, t) = \left[Q / (4 \pi T) \right] \int_u^\infty \left(e^{-z} / z \right) dz = \left[Q / (4 \pi T) \right] W(u)$$

This is a tool that solves the Theis equation. The Theis equation was developed to determine the groundwater drawdown at any given radius from the well. The equation may be used alone or to model an aquifer's operating characteristics. The system presented here may be used as an alternative to more expensive software such as modflow. The Theis equation utilizes the flow yield which is usually a result of pumping the well. The equation takes into account the transmissivity of the outlying formation. An assumption the model makes is that the well resides in a confined aquifer. The Theis equation is most often applied to water wells.

Related Links:

[Wikipedia Aquifer Test](#)

[AEN 438G - Theis Equation](#)

Disclaimer:

The data, information, and utility presented in this page is to be used at own risk. Results should be verified before relying on the result.

File Disclaimer, [Site Map](#)



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
Director

March 13, 2014

ERO RESOURCES CORP
ATTN: DAVID SHAW
4001 E MAIN ST
EMMETT ID 83617

Re: Application for Permit No. 63-33895

Dear Mr. Shaw:

We are processing an application for permit you recently submitted for Greg Troost regarding a proposed supplemental well. To assist the Idaho Department of Water Resources (IDWR) in completing the initial processing steps, please submit additional information required by I. C. § 42-203A(5)(a-e) for "large diversion projects". This requirement includes the following items discussed in Water Appropriation Rule 40, Rule Subsections 040.05c through 040.05g (copy attached). For this proposed use, only the following items need to be addressed:

1. Effect on existing water rights
 - Please address effect on existing wells in area as described on attached page
 - Address the effect on the drain and any water users that might use the drain between the river and location of the proposed well. Is the drain under the jurisdiction of Wilder Irrigation District? If yes, please request and submit any comments concerning this proposal from them.
2. Sufficiency of water supply

We also need some additional information as follows:

- ✓A. We need specific information on how the water will be delivered from the well to each of the properties identified as a place of use under this proposal.
- ✓B. We found that the land in the E½NE¼, Section 28 already has an existing supplemental water right on it. The water right covering those acres was issued to Richard Owen under Rt. 63-11219. Please advise us, in writing, if you want to remove those 74 acres from the application form.
- C. We need to have a water bearing zone to be appropriated since this application falls within Basin 63.
- D. While reviewing the place of use locations under this application it was noticed that the county tax lot information shows some of the lands are not owned by the

applicant as stated under item 10b. Please explain how the applicant has possessory interest in the place of use under this application.

Please submit the requested information for application processing to continue. You may seek additional time to provide the information if necessary. Your written response is needed within the next thirty (30) days. The application will be voided without a timely written reply. Refunds are not available for voided applications.

IDWR rules, forms and other information are available on the Internet at www.idwr.idaho.gov. Please feel free to contact me at 208-334-2190 if you need more information. Thank you for your attention to these matters.

Sincerely,

A handwritten signature in black ink, appearing to read "Kay", with a stylized flourish extending from the end.

KAY WALKER
Sr. Water Resource Agent

Water Appropriation Rules 40.05.c through 40.05.g

c. Information relative to the effect on existing water rights, Section 42-203A(5)(a), Idaho Code, shall be submitted as follows:

- i. For applications appropriating springs or surface streams with five (5) or fewer existing users, either the identification number, or the name and address of the user, and the location of the point of diversion and nature of use for each existing water right shall be submitted.
- ii. For applications appropriating groundwater, a plat shall be submitted locating the proposed well relative to all existing wells and springs and permitted wells within a one-half mile radius of the proposed well.
- iii. Information shall be submitted concerning any design, construction, or operation techniques which will be employed to eliminate or reduce the impact on other water rights.

d. Information relative to sufficiency of water supply, Section 42-203A(5)(b), Idaho Code, shall be submitted as follows:

- i. Information shall be submitted on the water requirements of the proposed project, including, but not limited to, the required diversion rate during the peak use period and the average use period, the volume to be diverted per year, the period of year that water is required, and the volume of water that will be consumptively used per year.
- ii. Information shall be submitted on the quantity of water available from the source applied for, including, but not limited to, information concerning flow rates for surface water sources available during periods of peak and average project water demand, information concerning the properties of the aquifers that water is to be taken from for groundwater sources, and information on other sources of supply that may be used to supplement the applied for water source.

e. Information relative to good faith, delay, or speculative purposes of the applicant, Section 42-203A(5)(c), Idaho Code, shall be submitted as follows:

- i. The applicant shall submit copies of deeds, leases, easements or applications for rights-of-way from federal or state agencies documenting a possessory interest in the lands necessary for all project facilities and the place of use or if such interest can be obtained by eminent domain proceedings the applicant must show that appropriate actions are being taken to obtain the interest. Applicants for hydropower uses shall also submit information required to demonstrate compliance with Sections 42-205 and 42-206, Idaho Code.
- ii. The applicant shall submit copies of applications for other needed permits, licenses and approvals, and must keep the department apprised of the status of the applications and any subsequent approvals or denials.

f. Information Relative to Financial Resources, Section 42-203A(5)(d), Idaho Code, shall be submitted as follows:

- i. The applicant shall submit a current financial statement certified to show the accuracy of the information contained therein, or a financial commitment letter along with the financial statement of the lender or other evidence to show that it is reasonably probable that financing will be available to appropriate the water and apply it to the beneficial use proposed.
- ii. The applicant shall submit plans and specifications along with estimated construction costs for the project works. The plans shall be definite enough to allow for determination of project impacts and implications.

g. Information Relative to Conflict with the Local Public Interest, Section 42-203A(5)(e), Idaho Code, shall be submitted as follows:

The applicant shall seek comment and shall submit all letters of comment on the effects of the construction and operation of the proposed project from the governing body of the city and/or county and tribal reservation within which the point of diversion and place of use are located, the Idaho Department of Fish and Game, the Idaho Department of Environmental Quality, and any irrigation district or canal company within which the proposed project is located and from other entities as determined by the director.



COPY

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JAN 16 2014

WATER RESOURCES
WESTERN REGION

January 8, 2014

John Westra
Western Region Manager
Idaho Department of Water Resources
2725 Airport Way
Boise, ID 83705-5082

RE: Application for Permit for Greg Troost

Dear John:

Attached is a completed Application for Permit for a new supplemental ground water right for Greg Troost. The application seeks a new supplemental ground water right for irrigation purposes during the shoulder seasons and if surface water is not available due to drought or for other reasons.

Please let me know if you have any questions or if I can provide you with any additional information. Thank you in advance.

Yours truly,

David Shaw

Enc.

cc: Greg Troost

Denver
1842 Clarkson St.
Denver, CO 80218
303.830.1188

Durango
1015 1/2 Main Avenue
Durango, CO 81301
970.422.2136

Hotchkiss
P.O. Box 932
161 South 2nd St.
Hotchkiss, CO 81419
970.872.3020

Idaho
4001 East Main Street
Emmett, ID 83617
208.365.7684

www.eroresources.com

Consultants in
Natural Resources
and the Environment