

RECEIVED

JUN 03 2016

WATER RESOURCES
WESTERN REGIONSTATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

APPLICATION FOR PERMIT

To appropriate the public waters of the State of Idaho

Ident. No. 63-34242

1. Name of applicant(s) ZWJ Properties, LLC Phone 208-890-4291
 Name connector (check one): ☐ and ☐ or ☐ and/or
 Mailing address 333 Rossi Street, Suite 200 City Boise
 State ID Zip 83706 Email zeke@rscigroup.com

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	2E	27			NE	SW	Ada	Ground Water	

4. Water will be used for the following purposes:

Amount 0.16 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) 0.16 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. Well, pump, pressurized irrigation system

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 8 inches; proposed depth of well is 600 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. _____

63-34242

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	2E	27									30.5			4					34.5

Total number of acres to be irrigated: 8 acres within a 34.5-acre permissible place of use (ppu)

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?

Municipal water from United Water Idaho (SUEZ) will supply domestic needs.

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 proposes 8 acres irrigation for nine lots and common area within Win Hollow Subdivision. A permissible place of use has been proposed for irrigation and development flexibility. Water bearing zone to be appropriated is from 200 to 600 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

Zephaniah Johnson, Managing Member

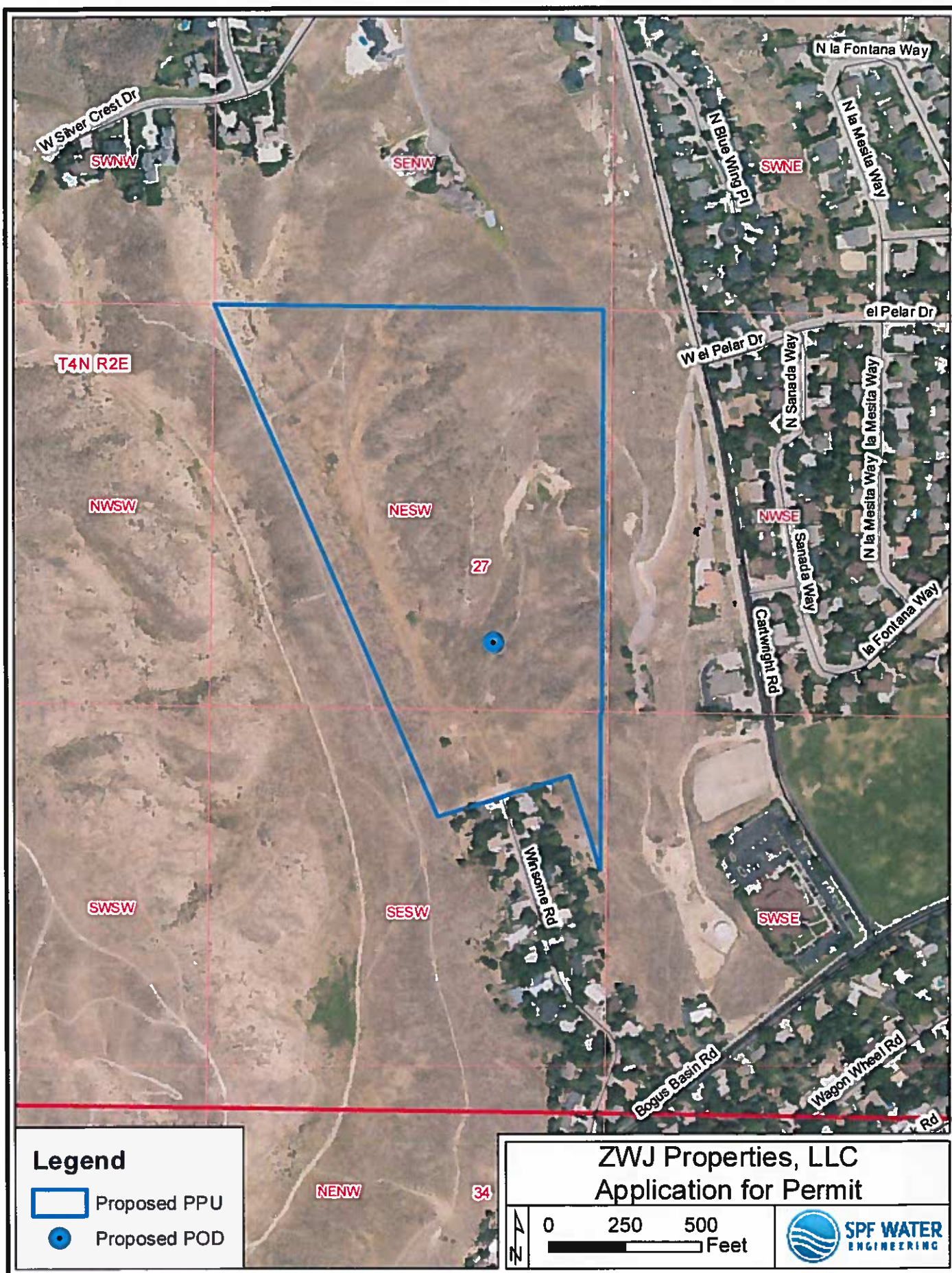
Print Name (and title, if applicable)

Print Name (and title, if applicable)

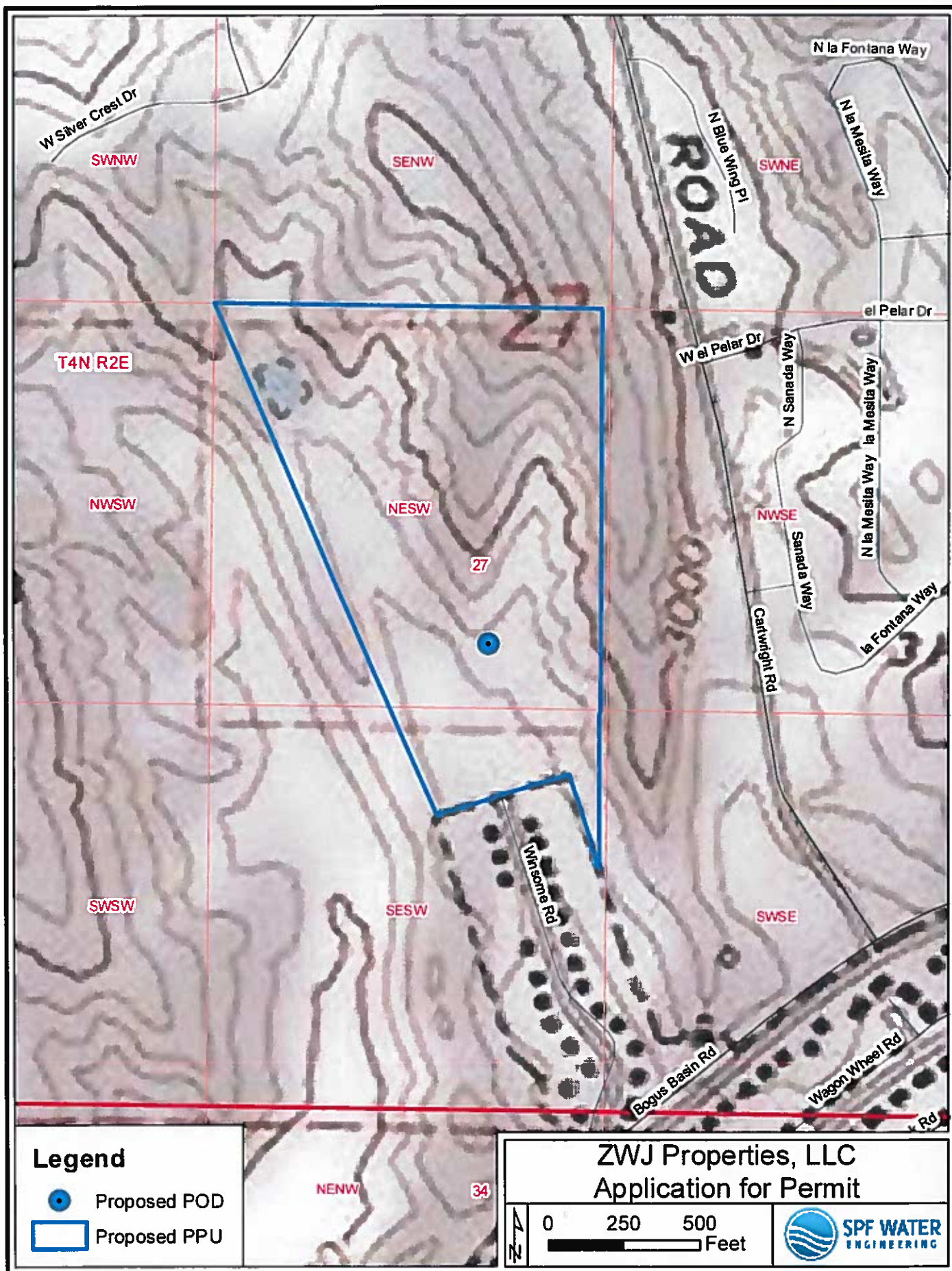
Received by BES Date 6/3/16 Time 11:46 Preliminary check by 19

Fee \$ 100.- Received by (BES) Receipt No. WUWV2/00 Date 6/3/16

63-34242



63-34242



No. W 51750	Due no later than Jun 30, 2016 Annual Report Form		2. Registered Agent and Address (NO PO BOX)
Return to: SECRETARY OF STATE 700 WEST JEFFERSON PO BOX 83720 BOISE, ID 83720-0080 NO FILING FEE IF RECEIVED BY DUE DATE	1. Mailing Address: Correct in this box if needed. ZWJ PROPERTIES, LLC ZEPHANIAH W JOHNSON 333 W ROSSI ST STE #200 BOISE ID 83706		ZEPHANIAH W JOHNSON 333 W ROSSI ST STE #200 BOISE ID 83706
			3. <u>New</u> Registered Agent Signature:*
4. Limited Liability Companies: Enter Names and Addresses of at least one Member or Manager.			
Office Held MEMBER	Name ZEPHANIAH W JOHNSON	Street or PO Address 333 W ROSSI ST STE#200	City BOISE State ID Country Postal Code 83706
5. Organized Under the Laws of: ID W 51750	6. Annual Report must be signed.* Signature: Zeke Johnson Name (type or print): Zeke Johnson Date: 05/12/2016 Title: Owner		
Processed 05/12/2016		* Electronically provided signatures are accepted as original signatures.	



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

October 27, 2016

ZWJ PROPERTIES LLC
333 ROSSI ST STE 200
BOISE, ID 83706

Application for Permit No. 63-34242

Dear Applicant(s):

The Department of Water Resources has received your water right application. Please refer to the number referenced above in all future correspondence regarding this application.

A legal notice of the application has been prepared and is scheduled for publication in the IDAHO STATESMAN on 11/3/2016 and 11/10/2016. Protests to this application may be submitted for a period ending ten (10) days after the second publication.

If the application is protested, you will be sent a copy of each protest. All protests must be resolved before the application can be considered for approval. If the protest(s) cannot be resolved voluntarily, the Department will conduct a conference and/or hearing on the matter.

If the application is not protested, the Department will process your application and notify you of any action taken on the application. If your application is approved, the Department will send you a copy of the permit.

Please contact this office if you have any questions regarding the application.

Sincerely,

Rachel Neely
Administrative Assistant

CC:
SPF WATER ENGINEERING LLC
C/O LORI GRAVES
300 E MALLARD DR STE 350
BOISE, ID 83706

Neely, Rachel

From: Neely, Rachel
Sent: Thursday, October 27, 2016 8:51 AM
To: 'BOI Legals'
Subject: Ada Legal Ads
Attachments: Ada Cover Letter.docx; Ada Legal Ad.docx

Good Morning Legal Clerk,

Please see the attached ads for publication on 11/3/2016 & 11/10/2016.

Please confirm these are okay to publish as shown.

Thank you,

Rachel Neely

Administrative Assistant I
IDWR-Western Region
2735 Airport Way Boise, ID 83705
Rachel.Neely@idwr.idaho.gov

October 27, 2016

LEGAL NOTICE DEPARTMENT
IDAHO STATESMAN
PO BOX 40
BOISE, ID 83707

RE: Application for Permit No. 63-34201
Application for Permit No. 63-34242

Dear Legal Notice Department:

Please publish the enclosed legal notices on the dates indicated (once a week for two consecutive weekly issues). If you cannot publish the notices 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 11/21/2016. Your cooperation is appreciated.

Sincerely,

Rachel Neely
Administrative Assistant

Enclosure(s)

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

63-34201

JOHN FOLEY

GENA FOLEY

5250 N WILLOW CREEK RD

EAGLE, ID 83616

Point of Diversion SENE S29 T05N R01E ADA County Source GROUND WATER

Use: DOMESTIC 01/01 to 12/31 0.04 CFS

Use: IRRIGATION 03/01 to 11/15 0.12 CFS

Use: STOCKWATER 01/01 to 12/31 0.02 CFS

Total Diversion: 0.18 CFS

Date Filed: 2/22/2016

Places of Use: IRRIGATION, STOCKWATER, DOMESTIC

T05N R01E S29 SENE NESE

Total Acres: 4.8

Water bearing zone to be appropriated is from 200 feet to 400 feet.

63-34242

ZWJ PROPERTIES LLC

333 ROSSI ST STE 200

BOISE, ID 83706

Point of Diversion NESW S27 T04N R02E ADA County Source GROUND WATER

Use: IRRIGATION 03/01 to 11/15 0.16 CFS

Total Diversion: 0.16 CFS

Date Filed: 6/3/2016

Place of Use: IRRIGATION

T04N R02E S27 NESW SESW

Total Acres: 35

Water bearing zone to be appropriated is from 200 to 600 feet.

Applicant proposes to irrigate 8.0 acres within a 35.0 acre permissible place of use.

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/WaterManagement/WaterRights. Protests may be submitted based on the criteria of Idaho Code § 42-203A. Any protest against the approval of the application(s) 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 11/21/2016. The protestant must also send a copy of the protest to the applicant.

GARY SPACKMAN, Director

Published on 11/3/2016 and 11/10/2016



October 17, 2016

Rachel Sommer
Water Resource Agent
IDWR Western Region Office
2735 Airport Way
Boise, ID 83705

RECEIVED
OCT 20 2016
WATER RESOURCES
WESTERN REGION

Subject: 63-34242 Application for Permit

Dear Rachel,

As requested by your email dated October 4, 2016, SPF Water Engineering has briefly investigated the potential for encountering low-temperature geothermal groundwater during drilling of the proposed cold-water irrigation well to serve Win Hollow Subdivision.

Background

Water right application 63-34242 proposes diversion of 0.16 cfs (72 gpm) of ground water for irrigation of 8 acres within the subdivision. The proposed well is to be located north of Bogus Basin Road and west of Cartwright Road at an elevation of approximately 2920 feet. The proposed water-bearing zone is from 200 to 600 feet in hopes that a productive cold-water aquifer can be penetrated and developed by the well within this interval.

The proposed well site is located within the Boise Front Low-Temperature Geothermal Resource Ground Water Management Area (GWMA). The area was established to protect existing water rights that tap the low-temperature geothermal aquifer for heating purposes. Your email of October 4 noted that the faulted and fractured nature of the subsurface in this area creates zones within the GWMA where the low temperature geothermal source may be interconnected with overlying cold water sources. The extent and location of these interconnected zones is not precisely known but is assumed to most commonly occur for wells 300 feet or more in depth.

Your email of October 4 also states "*Therefore, the order establishing the GWMA included all ground water with a temperature greater than 85°F plus colder ground water 300 feet or more below land surface.*" We cannot find information in the GWMA order that includes cold groundwater below 300 feet, and therefore assume that groundwater less than 85°F within the GWMA is not included in the GWMA restrictions.

We note that the June 3, 1988 management plan for the GWMA does require a prospectus for wells that exceed 300 feet in depth. Because total depth listed for the proposed well is up to 600 feet, your concern that low-temperature geothermal groundwater will be encountered below 300 feet is reasonable. Your email of October 4 specifically requested information demonstrating the degree of interconnection, or lack thereof, between the cold water being sought and the protected low temperature geothermal source in the specific area from which ground water is to be diverted. The following information is in response to that request and supports Department approval of application 63-34242 with respect to GWMA criteria.

Description of Existing Wells

Recorded well driller reports located within Section 27 and/or ½-mile radius of the proposed well site were reviewed to better understand local hydrogeology and geothermal water occurrence. Any recorded wells that appeared mis-located based on the property address listed on the report were not included. The four nearby wells that were evaluated are shown on Figure 1. A summary table and copies of well driller reports are provided as Attachment A. Considerations in the well evaluations included elevation, well depth, depth to water, temperature, and geology. Temperatures were found listed on 2 of the 4 well reports in Attachment A. Topographic maps were used in estimating well elevations. Well depth, depth to water, temperature and subsurface geology were described on the well driller reports. Surface geology was adapted from Othberg and Stanford, 1992 and is shown on Figure 2.

- Well 1 is approximately 3100 feet northeast from the proposed well site. Estimated elevation for Well 1 is 3110 feet, approximately 190 feet higher than the proposed well. The well is 881 feet deep and has a static water level of 380 feet (approximate water surface elevation 2730 feet). The borehole penetrated sediments (sand and clay) to 610 feet, along with volcanic rock and sediments below 610 feet. Water temperature was 79°F. Although the well penetrated more than 500 feet below the water table, it registered 6°F below the low-temperature geothermal threshold.
- Well 2 is approximately 1450 feet northeast from the proposed well site. Estimated elevation for Well 2 is 2980 feet, approximately 60 feet higher than the proposed well. The well is 750 feet deep and has a static water level of 280 feet (approximate water surface elevation 2700 feet). The borehole penetrated sediments (sand, shale and clay) to 550 feet, along with volcanic rock and sediments below 550 feet. Water temperature was 60°F. Although the well penetrated more than 470 feet below the water table, it registered 25°F below the low-temperature geothermal threshold.
- Well 3 is approximately 3000 feet northeast from the proposed well site. Estimated elevation for Well 3 is 3020 feet, approximately 100 feet higher than the proposed well. The well is 802 feet deep and has a static water level of 320 feet (approximate water surface elevation 2700 feet). The well is screened from 443 feet to 597 feet. The borehole penetrated sediments (sand, shale and clay) to 425 feet, along with volcanic

rock and sediments between 425 feet to 597 feet, then only sediments again from 597 feet to 802 feet. Water temperature was not recorded.

- Well 4 is approximately 2250 feet east from the proposed well site. Estimated elevation for Well 4 is 2980 feet, approximately 60 feet higher than the proposed well. The well is 529 feet deep and has a static water level of 183 feet (approximate water surface elevation 2797 feet). The borehole penetrated sediments (sand, shale and clay) to 361 feet, along with volcanic rock and sediments below 361 feet. Water temperature was not recorded.



Figure 1. Local Area Well Driller Reports (see Attachment A)

Geology

Surface geology at the proposed well site is shown in Figure 2 as Tertiary sediments, described by Othberg and Stanford (1992) as Sand and Mudstone of Stream and Lake Sediments. Locally, these sediments have been mapped as the Terteling Springs Formation. The geothermal aquifer in the Boise area is typically found in rhyolite, basalt, and volcaniclastic sediments that underlie the Terteling Springs Formation. Normal faults cut these sediments, and are found to both the east and southwest from the proposed well site.

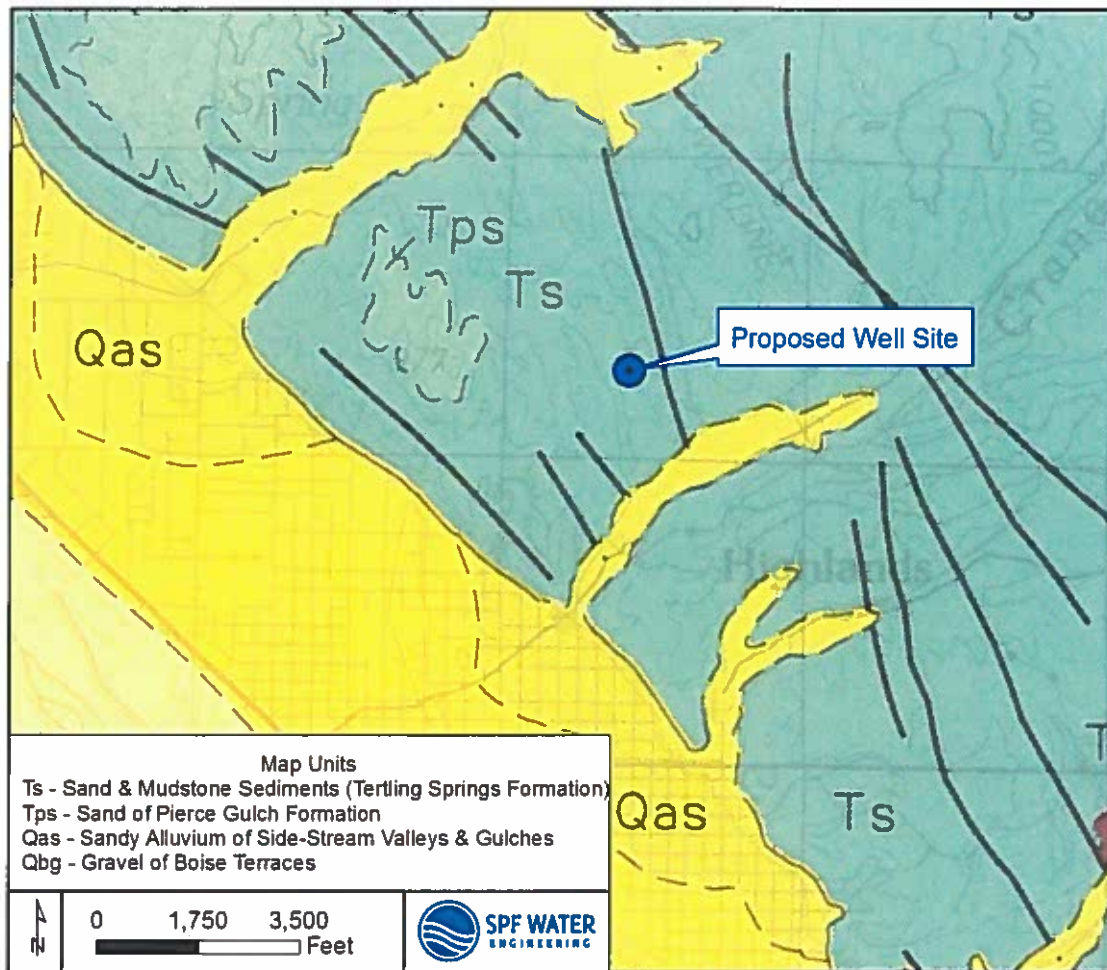


Figure 2. Surface Geology (adapted from Othberg and Stanford, 1992)

Discussion

Based on the information detailed above, it is likely that cold groundwater aquifer zones are present beneath the proposed well site in Tertiary-age sediments that overly volcanic rock

(rhyolite, basalt, and volcanoclastic sediments). We anticipate that the volcanic materials will be found at depths below 200 feet. Geothermal groundwater is likely to be found within or beneath the volcanic rock units. Depths to the top of the geothermal water-bearing zones will likely range between 300 and 800 feet. Therefore, there is a possibility of encountering warm groundwater within the 200 to 600-foot water-bearing zone proposed for application 63-34242.

Summary

Because ground water occurrence is spotty in the foothills and there is no certainty that an adequate supply can be developed within a limited depth interval, a water bearing zone of 200 to 600 feet was proposed in order to increase the likelihood that a productive cold-water aquifer can be penetrated and developed by the well. The upper limit of this water-bearing zone is determined based on current IDWR policy within the Lower Boise River Basin upstream from Star that prohibits approval of new water rights from aquifers above 200 feet depth for consumptive uses. The proposed lower limit is based on the assumption that water-bearing materials adequate to produce 72 gpm will be encountered between 200 and 600 feet, with the expectation that water-bearing sediments can likely be developed between 200 and 350 feet. To safeguard the Boise Front low-temperature geothermal ground water resource, applicant will agree to measure bottom-hole temperatures at 100-foot intervals beginning at 300 feet. If volcanic rock types are encountered, bottom-hole temperatures will be measured at 50-foot intervals. Drilling will be suspended if a bottom-hole temperature of 85 degrees or more is encountered.

Please contact us with any questions or comments concerning this analysis. Thanks Rachel.

Sincerely,



Lori Graves
Water Rights Specialist



Terry M. Scanlan, P.E., P.G.
Principal Engineer/Hydrogeologist

Cc: ZWJ Properties

Attachments: Attachment A - Well Driller's Reports

SPF file number: 1268.0010

Recorded Wells within Section 27 and/or 1/2-Mile of Proposed Well

<u>Map No.</u>	<u>Contact</u>	<u>Const. Date</u>	<u>Total Depth</u>	<u>Drilling Co.</u>	<u>Twp</u>	<u>Rng</u>	<u>Sec</u>	<u>Tract</u>	<u>Use</u>	<u>Csg. Dia.</u>	<u>GPM</u>	<u>Static Water Level</u>	<u>Temp (°f)</u>
1	J R SIMPLOT CO	3/24/1988	881	PETE COPE	04N	02E	27	NWNE	Irrigation	18	0	380	79
2	UNITED WATER	7/3/1976	750	L & M WELL DRILLING	04N	02E	27	SWNE	Municipal	20	685	280	60
3	J R SIMPLOT	11/18/1986	802	PETE COPE	04N	02E	27	SENE	Irrigation	16	u/k	320	u/k
4	J R SIMPLOT	4/26/1980	529	STEVENS & SONS	04N	02E	27	NESE	Irrigation	16	990	183	u/k

Recorded Wells Found Mis-Located and Not Included

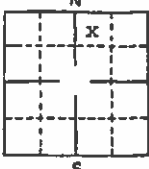
n/a	JACK KENNEDY	3/20/1964	60	BILL DOTY DRILLING CO INC	04N	02E	27	not listed		4	20	39	u/k
n/a	DAVID LOWBER	4/18/1994	25	SOS WELL DRILLING & PUMP CO INC	04N	02E	27 (actually S28)	NWSW (actually SESW)		6	35	11	u/k
n/a	JOHN HEISEL	2/17/1977	375	TREASURE VALLEY DRILLING	04N	02E	28	SESE (actually SESW)		6	u/k	80	u/k

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORTUSE TYPEWRITER OR
BALLPOINT PEN

Well 1

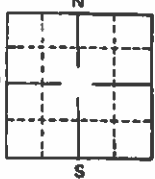
State law requires that this report be filed with the Director, Department of Water Resources
within 30 days after the completion or abandonment of the well.

MAY 26 1988

1. WELL OWNER Name <u>J. R. Simplot</u> Address <u>P. O. Box 27-Boise, ID 83707</u> Owner's Permit No. <u>63-9335 & 63-10314</u>	7. WATER LEVEL Department of Water Resources Static water level <u>380</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 <u>79</u> °F. Quality _____ Describe artesian or temperature zones below.																																																																																																																																																																																																																						
2. NATURE OF WORK <u>13-8F-2-15</u> ☒ New well ☐ Deepened ☐ Replacement ☐ Abandoned (describe abandonment procedures such as materials, plug depths, etc. in lithologic log)	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> </td><td> </td><td> </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																																																																																																																																																																																																																			
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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 <u>J. R. Simplot</u> Address _____ Owner's Permit No. <u>63-9335</u>		7. WATER LEVEL Department of Water Resources Static water level _____ feet below land surface. Flowing? ☐ Yes ☐ No G.P.M. flow _____ Artesian closed-in pressure _____ p.s.i. Controlled by: ☐ Valve ☐ Cap ☐ Plug Temperature _____ of, Quality _____ Describe artesian or temperature zones below.																																																																																																																	
2. NATURE OF WORK <u>63-10314</u> <u>63-88-2-15</u> ☐ New well ☐ Deepened ☐ Replacement ☐ Abandoned (describe abandonment procedures such as materials, plug depths, etc. in lithologic log)		8. WELL TEST DATA ☐ Pump ☐ Bailer ☐ Air ☐ Other _____ <table border="1"><thead><tr><th>Discharge G.P.M.</th><th>Pumping Level</th><th>Hours Pumped</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>		Discharge G.P.M.	Pumping Level	Hours Pumped																																																																																																													
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USE TYPEWRITER OR
BALL POINT PEN

State of Idaho
Department of Water Resources

104 RECEIVED

Well 2

WELL DRILLER'S REPORT

DEC 28 1976

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>Howard Mitchell</u> Address <u>RT 1 - CARTWRIGHT RD</u> Owner's Permit No. <u>X</u>		7. WATER LEVEL Static water level <u>280</u> feet below land surface Flowing? ☐ Yes ☒ No G.P.M. flow _____ Temperature <u>60</u> ° 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 <u>7-24-76</u> ☒ Pump ☐ Bailer ☐ Other <table border="1"> <thead> <tr> <th>Discharge G.P.M.</th> <th>Draw Down</th> <th>Hours Pumped</th> </tr> </thead> <tbody> <tr> <td><u>685</u></td> <td><u>370</u></td> <td><u>12</u></td> </tr> </tbody> </table>		Discharge G.P.M.	Draw Down	Hours Pumped	<u>685</u>	<u>370</u>	<u>12</u>																																																																																																				
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USE ADDITIONAL SHEETS IF NECESSARY

FORWARD THE WHITE COPY TO THE DEPARTMENT

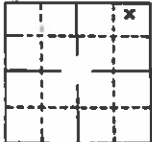
STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORTState law requires that this report be filed with the Director, Department of
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Location Corrected by IDWR To:

T04N R02E Sec. 27 SESENE

By: mciscell 2012-12-13

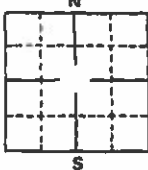
Well 3

1. WELL OWNER Name <u>J. R. Simplot</u> Address <u>4000 Simplot Lane - Boise, ID</u> Owner's Permit No. <u>63-9335</u>		7. WATER LEVEL Static water level <u>320</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 _____ of. Quality _____ <i>Describe artesian or temperature zones below</i>																																																																																																																																																																																																																									
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STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

USE TYPEWRITER OR
BALLPOINT PEN

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>J. R. Simplot</u> Address _____ Owner's Permit No. _____	7. WATER LEVEL Static water level _____ feet below land surface. Flowing? ☐ Yes ☐ No G.P.M. flow _____ Artesian closed-in pressure _____ p.s.i. Controlled by: ☐ Valve ☐ Cap ☐ Plug Temperature _____ OF, Quality _____ Describe artesian or temperature zones below:																																																																																																																																																																					
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3. PROPOSED USE ☐ Domestic ☐ Irrigation ☐ Test ☐ Municipal ☐ Industrial ☐ Stock ☐ Waste Disposal or Injection ☐ Other _____ (specify type)	9. LITHOLOGIC LOG 2 of 3 Department of Water Resources 87456 <table border="1" style="width:100%; border-collapse: collapse;"><thead><tr><th>Bore Diam.</th><th>Depth From</th><th>To</th><th>Material</th><th>Water Yes No</th></tr></thead><tbody><tr><td>24"</td><td>477</td><td>478</td><td>Red Lava-Broken</td><td></td></tr><tr><td></td><td>478</td><td>487</td><td>Dark Lava Rock</td><td></td></tr><tr><td></td><td>487</td><td>488</td><td>Red to Brown Lava</td><td></td></tr><tr><td></td><td>488</td><td>492</td><td>Dark Lava</td><td></td></tr><tr><td></td><td>492</td><td>505</td><td>Reddish Brn. Lava-Med. Hard (Started diling. Virgin Rock w/some sand</td><td></td></tr><tr><td></td><td>505</td><td>513</td><td>Black Lava-Some Grey Clay</td><td></td></tr><tr><td></td><td>513</td><td>520</td><td>Black Lava & Cinders</td><td></td></tr><tr><td></td><td>520</td><td>524</td><td>Black Lava</td><td></td></tr><tr><td></td><td>524</td><td>527</td><td>Blue Clay</td><td></td></tr><tr><td></td><td>527</td><td>529</td><td>Blue Clay & Sand</td><td></td></tr><tr><td></td><td>529</td><td>534</td><td>Blue Clay-Small amt. of sand</td><td></td></tr><tr><td></td><td>534</td><td>535</td><td>Mostly Coarse Sand w/Clay</td><td></td></tr><tr><td></td><td>535</td><td>543</td><td>Grey Clay-Sm. amt. sand</td><td></td></tr><tr><td></td><td>543</td><td>546</td><td>Grey Shale & Clay</td><td></td></tr><tr><td></td><td>546</td><td>548</td><td>Grey Clay w/coarse sand</td><td></td></tr><tr><td></td><td>548</td><td>552</td><td>Grey Clay & Black Lava</td><td></td></tr><tr><td></td><td>552</td><td>555</td><td>Black Lava-Med. Hard & Brkn.</td><td></td></tr><tr><td></td><td>555</td><td>558</td><td>Dark Lava & Med. Hard Grey Clay</td><td></td></tr><tr><td></td><td>558</td><td>565</td><td>Dark Brkn. Lava w/Cinders</td><td></td></tr><tr><td></td><td>565</td><td>567</td><td>Black Lava & Clay</td><td></td></tr><tr><td></td><td>567</td><td>569</td><td>Red & Black Cinders-w/some Grey Clay</td><td></td></tr><tr><td></td><td>569</td><td>573</td><td>Red & Grey Clay w/some cinders</td><td></td></tr><tr><td></td><td>573</td><td>575</td><td>Black Lava-Hard-Grey Clay</td><td></td></tr><tr><td></td><td>575</td><td>576</td><td>Grey Sandy Clay-Some Black lava</td><td></td></tr><tr><td></td><td>576</td><td>596</td><td>Black Lava & Grey Clay</td><td></td></tr><tr><td></td><td>596</td><td>597</td><td>Grey Sandy Clay & Blk. Lava</td><td></td></tr><tr><td></td><td>597</td><td>601</td><td>Greenish Grey Coarse Sand</td><td></td></tr><tr><td></td><td>601</td><td>602</td><td>" " " "</td><td></td></tr><tr><td></td><td></td><td></td><td>w/Sm. Amt. Grey Clay</td><td></td></tr><tr><td></td><td>602</td><td>633</td><td>Grey Clay</td><td></td></tr><tr><td></td><td>633</td><td>642</td><td>Brown Clay-Some Blue Clay</td><td></td></tr><tr><td></td><td>642</td><td>648</td><td>Reddish Brown Clay w/Small Amt. of Blue Clay</td><td></td></tr></tbody></table>	Bore Diam.	Depth From	To	Material	Water Yes No	24"	477	478	Red Lava-Broken			478	487	Dark Lava Rock			487	488	Red to Brown Lava			488	492	Dark Lava			492	505	Reddish Brn. Lava-Med. Hard (Started diling. Virgin Rock w/some sand			505	513	Black Lava-Some Grey Clay			513	520	Black Lava & Cinders			520	524	Black Lava			524	527	Blue Clay			527	529	Blue Clay & Sand			529	534	Blue Clay-Small amt. of sand			534	535	Mostly Coarse Sand w/Clay			535	543	Grey Clay-Sm. amt. sand			543	546	Grey Shale & Clay			546	548	Grey Clay w/coarse sand			548	552	Grey Clay & Black Lava			552	555	Black Lava-Med. Hard & Brkn.			555	558	Dark Lava & Med. Hard Grey Clay			558	565	Dark Brkn. Lava w/Cinders			565	567	Black Lava & Clay			567	569	Red & Black Cinders-w/some Grey Clay			569	573	Red & Grey Clay w/some cinders			573	575	Black Lava-Hard-Grey Clay			575	576	Grey Sandy Clay-Some Black lava			576	596	Black Lava & Grey Clay			596	597	Grey Sandy Clay & Blk. Lava			597	601	Greenish Grey Coarse Sand			601	602	" " " "					w/Sm. Amt. Grey Clay			602	633	Grey Clay			633	642	Brown Clay-Some Blue Clay			642	648	Reddish Brown Clay w/Small Amt. of Blue Clay	
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MICROFILMED TYPEWRITE OR
ALLPOINT PEN

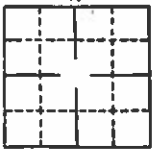
[illegible]

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

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORTState 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.USE TYPEWRITER OR
BALLPOINT PEN

Well 4

RECEIVED
MAY 8 1980

1. WELL OWNER Name <u>J.R. Simplot</u> Address <u>1500 Harrison Blvd. 83702</u> Owner's Permit No. _____		7. WATER LEVEL Static water level <u>183</u> feet below ground surface Flowing? ☐ Yes ☒ No Artesian closed-in pressure _____ p.s.i. Controlled by: ☐ Valve ☐ Cap ☐ Other _____ Temperature _____ of. Quality _____																																																																																																																																																																																																							
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5. WELL CONSTRUCTION Casing schedule: ☒ Steel ☐ Concrete ☐ Other _____ <table border="1"><thead><tr><th>Thickness</th><th>Diameter</th><th>From</th><th>To</th></tr></thead><tbody><tr><td>.250 inches</td><td>16 inches</td><td>2 feet</td><td>372.4 feet</td></tr><tr><td>.250 inches</td><td>12 inches</td><td>342.9 feet</td><td>348.3 feet</td></tr><tr><td>.250 inches</td><td>10 inches</td><td>348.3 feet</td><td>529 feet</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 <u>1/8</u> inches by <u>3</u> inches <table border="1"><thead><tr><th>Number</th><th>From</th><th>To</th></tr></thead><tbody><tr><td>640 perforations</td><td>352.4 feet</td><td>372.4 feet</td></tr><tr><td>3600 perforations</td><td>348.3 feet</td><td>529 feet</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 <u>3/4 minus</u> Placed from <u>20</u> feet to <u>370</u> 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	16 inches	2 feet	372.4 feet	.250 inches	12 inches	342.9 feet	348.3 feet	.250 inches	10 inches	348.3 feet	529 feet	Number	From	To	640 perforations	352.4 feet	372.4 feet	3600 perforations	348.3 feet	529 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>Ada</u> NE 1/4 SE 1/4 Sec. 27 T. 4 N. R. 2 E.		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>W.E. Stevens & Sons</u> No. <u>153</u> Address <u>3709 Hawthorne Drive</u> Date <u>4/27/80</u> Signed by (Firm Official) _____ and _____ (Operator)																																																																																																																																																																																																							

Sommer, Rachel

From: Sommer, Rachel
Sent: Wednesday, October 05, 2016 10:24 AM
To: 'Lori Graves'
Subject: FW: 63-34242 Application for Permit

Lori, please see the email below. I meant to send this to you yesterday though I inadvertently sent to another Lori. Please let me know if you have questions.

Sincerely,
Rachel Sommer

From: Sommer, Rachel
Sent: Tuesday, October 04, 2016 8:47 AM
To: 'zeke@rscigroup.com'
Cc: 'Lori'
Subject: 63-34242 Application for Permit

Dear ZWJ Properties LLC:

The Idaho Department of Water Resources (IDWR) received your water right application seeking ground water within the Boise Front Low Temperature Geothermal Ground Water Management Area (GWMA). The GWMA was established by the IDWR Director in 1987 to protect low temperature geothermal ground water (85 to 212 °F) from further adverse impacts. Impacts can include a reduction in the quantity, temperature and/or pressure of low temperature geothermal water. These impacts can potentially injure senior water rights using that source. Junior (new) water rights should not injure senior water rights.

IDWR recognizes three distinct aquifer systems in the area as follows: a shallow cold water source, a deeper cold water artesian source, and a still deeper low temperature geothermal artesian source. The faulted and fractured nature of the subsurface in this area creates zones within the GWMA where the low temperature geothermal source is interconnected with one or both of the cold water sources. The extent and location of these interconnected zones is not precisely known but can occur for wells 300 feet or more in depth. Therefore, the order establishing the GWMA included all ground water with a temperature greater than 85°F plus colder ground water 300 feet or more below land surface.

Your application proposes a cold water well at least 300 feet deep. Please submit information demonstrating the degree of interconnection, or lack thereof, between the cold water source being sought and the protected low temperature geothermal source in the specific area from which ground water is to be diverted. This information is needed to determine if the application is approvable with respect to GWMA criteria.

Please submit the requested information for application processing to continue. You may seek additional time to provide the information by making a written request to interrupt processing for up to six (6) months. Your response including the requested information, or a request for more time to seek the information, must be received within the next sixty (60) days. The application will be voided without a timely written reply.

IDWR forms and other information are available on the Internet at www.idwr.idaho.gov. Please contact me at 208-334-2190 if you have any questions. Thank you for your attention to this matter.

Sincerely,
Rachel Sommer | Water Resource Agent
Idaho Dept. of Water Resources | Western Regional Office
208.334.2190 | 2735 Airport Way, Boise ID 83705



SPF WATER
ENGINEERING

RECEIVED

JUN 03 2016

WATER RESOURCES
WESTERN REGION

June 1, 2016

Angie Grimm
IDWR Western Region Office
2735 Airport Way
Boise, ID 83705

Subject: Application for Permit

Dear Angie,

Enclosed on behalf of ZWJ Properties. LLC, is an *Application for Permit* seeking to divert ground water from a new well for irrigation use.

Check No. 010663 for \$100 is enclosed for the filing fee. Thank you very much for your consideration and assistance in this matter. Please call me if you have any questions.

Sincerely,

Lori Graves
Water Rights Specialist

Cc: Zeke Johnson

Enclosures

SPF file number: 1268.0010