STARTING LEFT SIDE OF FILE

State of Idaho
Department of Water Resources

Permit to Appropriate Water

NO. 63-32225

Priority: September 16, 2005

Maximum Diversion Rate: 10.00 CFS
Maximum Diversion Volume: 1,815.0 AF

This is to certify, that INTERMOUNTAIN SEWER & WATER CORP
660 E FRANKLIN RD
MERIDIAN ID 83642

has applied for a permit to appropriate water from:

Source: GROUND WATER

and a permit is APPROVED for development of water as follows:

BENEFICIAL USE	PERIOD OF USE	RATE OF DIVERSION	ANNUAL VOLUME
MUNICIPAL	01/01 to 12/31	10.00 CFS	1,815.0 AF

LOCATION OF POINTS OF DIVERSION:

GROUND WATER	NE¼ NE¼ Sec. 28, Twp 01N, Rge 04E, B.M.	ADA County
GROUND WATER	SE¼ NW¼ Sec. 28, Twp 01N, Rge 04E, B.M.	ADA County
GROUND WATER	NW¼ SE¼ Sec. 28, Twp 01N, Rge 04E, B.M.	ADA County
GROUND WATER	SE¼ SE¼ Sec. 28, Twp 01N, Rge 04E, B.M.	ADA County
GROUND WATER	NE¼ NW¼ Sec. 33, Twp 01N, Rge 04E, B.M.	ADA County

CONDITIONS OF APPROVAL

1. Proof of application of water to beneficial use shall be submitted on or before **February 01, 2012.**
2. Subject to all prior water rights.
3. Right holder shall comply with the drilling permit requirements of Section 42-235, Idaho Code and applicable Well Construction Rules of the Department.
4. Water bearing zone to be appropriated is from 300 to 1000 feet.
5. The Director retains jurisdiction to require the right holder to provide purchased or leased natural flow or stored water to offset depletion of Lower Snake River flows if needed for salmon migration purposes. The amount of water required to be released into the Snake River or a tributary, if needed for this purpose, will be determined by the Director based upon the reduction in flow caused by the use of water pursuant to this permit.
6. Prior to the diversion of water in connection with this right, the right holder shall provide the department with a plan for monitoring ground water levels in the vicinity of the place of use for this water right. The monitoring should occur in parallel with development and production and should include indentification of non-productions wells and timelines for measuring and reporting. The right holder shall not divert water in connection with this right until the monitoring plan is approved by the Department. Failure to comply with the monitoring plan once it is accepted shall be cause for the Department to cancel or revoke this right.
7. Prior to or in connection with the proof of beneficial use statement to be submitted for municipal water use under this right, the right holder shall provide the department with documentation showing that the water supply system is being regulated by the Idaho Department of Environmental Quality as a public water supply and that it has been issued a public water supply number.

State of Idaho
Department of Water Resources

Permit to Appropriate Water

NO. 63-32225

8. After specific notification by the Department, the right holder shall install a suitable measuring device or shall enter into an agreement with the Department to determine the amount of water diverted from power records and shall annually report the information to the Department.
9. Place of use is within the area served by the public water supply system of Intermountain Sewer & Water, Corp. The place of use is generally located within Township 1N, Range 4E, Sections 28, 29, 32 and 33.
10. Common areas, parks, school grounds, golf courses, and any other large parcels may only be irrigated under this water right with wastewater that has been previously beneficially used for potable or culinary purposes, has been treated in a wastewater treatment plant, and is delivered from the wastewater treatment plant to the parcel to be irrigated.
11. Water diverted under this right may be used for direct irrigation of up to 1/2 acre per residential lot upon which a home has been constructed.
12. A map depicting the place of use boundary for this water right at the time of this approval is attached to this document for illustration purposes.
13. Project construction shall commence within one year from the date of permit issuance and shall proceed diligently to completion unless it can be shown to the satisfaction of the Director of the Department of Water Resources that delays were due to circumstances over which the permit holder had no control.

This permit is issued pursuant to the provisions of Section 42-204, Idaho Code. Witness the signature of the Director, affixed at Boise, this 16 day of February, 2007.

For DAVID R. TUTHILL, JR., Interim Director

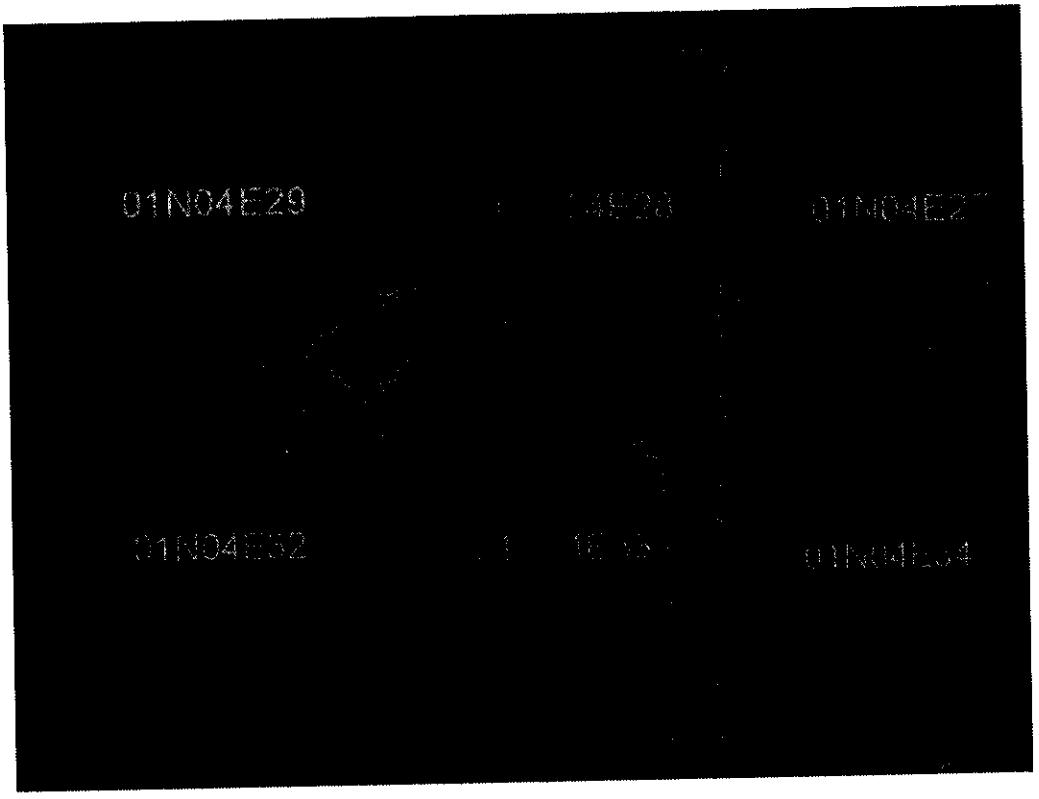
State of Idaho
Department of Water Resources

Permit to Appropriate Water

NO. 63-32225

Digital Boundary for Intermountain Sewer and Water, Corp.

February 14, 2007



0.4 0 0.4 0.8 Miles

Digital Boundary - Intermountain Sewer and Water
Township/Range
Sections
QQ

N
W E
S

FORM 202

Ident. No. 63-32225 12/99

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

APPLICATION FOR PERMIT

To appropriate the public waters of the State of Idaho

RECEIVED
SEP 16 2005
WATER RESOURCES
WESTERN REGION

1. Name of Applicant Intermountain Sewer & Water, Corp. Phone (208) 888-9771

   Mailing address 660 East Franklin Road, Meridian, ID 83642

2. Source of water supply ground water which is a tributary of NA

3. Location of point of diversion is Township 1N Range 4E Sec. 33, in the ____ ¼,

   NE ¼, NW ¼, Govt. Lot ____, B.M., Ada County;

   additional points of diversion if any: NENE, SENW, NWSE and SESE of Section 28, T1N R4E, Ada County

4. Water will be used for the following purposes:

   Amount 10.0 cfs for municipal purposes from 1/1 to 12/31 (both dates inclusive)
   (cfs or acre-feet per annum)

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

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

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

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

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

5. Total quantity to be appropriated is (a) 10.0 cubic feet per second and/or (b) ____ acre feet per annum

6. Proposed diverting works:

   a. Describe type and size of devices used to divert water from the source Up to five wells with electric pumps.

   b. Height of storage dam ____ feet; active reservoir capacity ____ acre-feet; total reservoir capacity ____ acre-feet

   c. Proposed well diameter is 16 inches; proposed depth of well is 1000 feet

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

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

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

8. Description of proposed uses (*if irrigation only, go to item 9*):

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

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

   c. Municipal; show name of municipality. Mayfield Springs Planned Community

   d. Domestic; show number of households. ____

   e. Other; describe fully. ____

9. 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	
1N	4E	28	M	M	M	M				M	M	M	M	M	M	M	M	M	
		29																M	
		32	M																
		33	M	M	M	M	M	M	M	M	M			M	M	M		M	

Total number of acres to be irrigated _____ 12/23/05 12/23/05

10. Describe any other water rights used for the same purposes as described above. None

11. a. Who owns the property at the point of diversion? Applicant or related business entity

b. Who owns the land to be irrigated or place of use? Applicant or related business entity

c. If the property is owned by a person other than the applicant, describe the arrangement enabling the applicant to make this filing: _____

12. Remarks: Applicant proposes a new public water system to provide water for municipal purposes that will include domestic, fire protection, commercial, and industrial uses in a proposed planned unit development. Diversion rate is estimated assuming domestic for 2000 homes (2.50 cfs) each with 0.15 acres landscape irrigation (6.00 cfs), commercial (0.50 cfs), industrial (0.5 cfs), and miscellaneous uses (0.5 cfs). Fire protection flows will be met from storage tanks. Water-bearing zone to be appropriated is 300 to 1000 feet.

13. **MAP OF PROPOSED PROJECT REQUIRED** - Attach an 8½"x11" 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.)

BE IT KNOWN that the undersigned hereby makes this application for permit to appropriate the public waters of the State of Idaho as herein set forth.

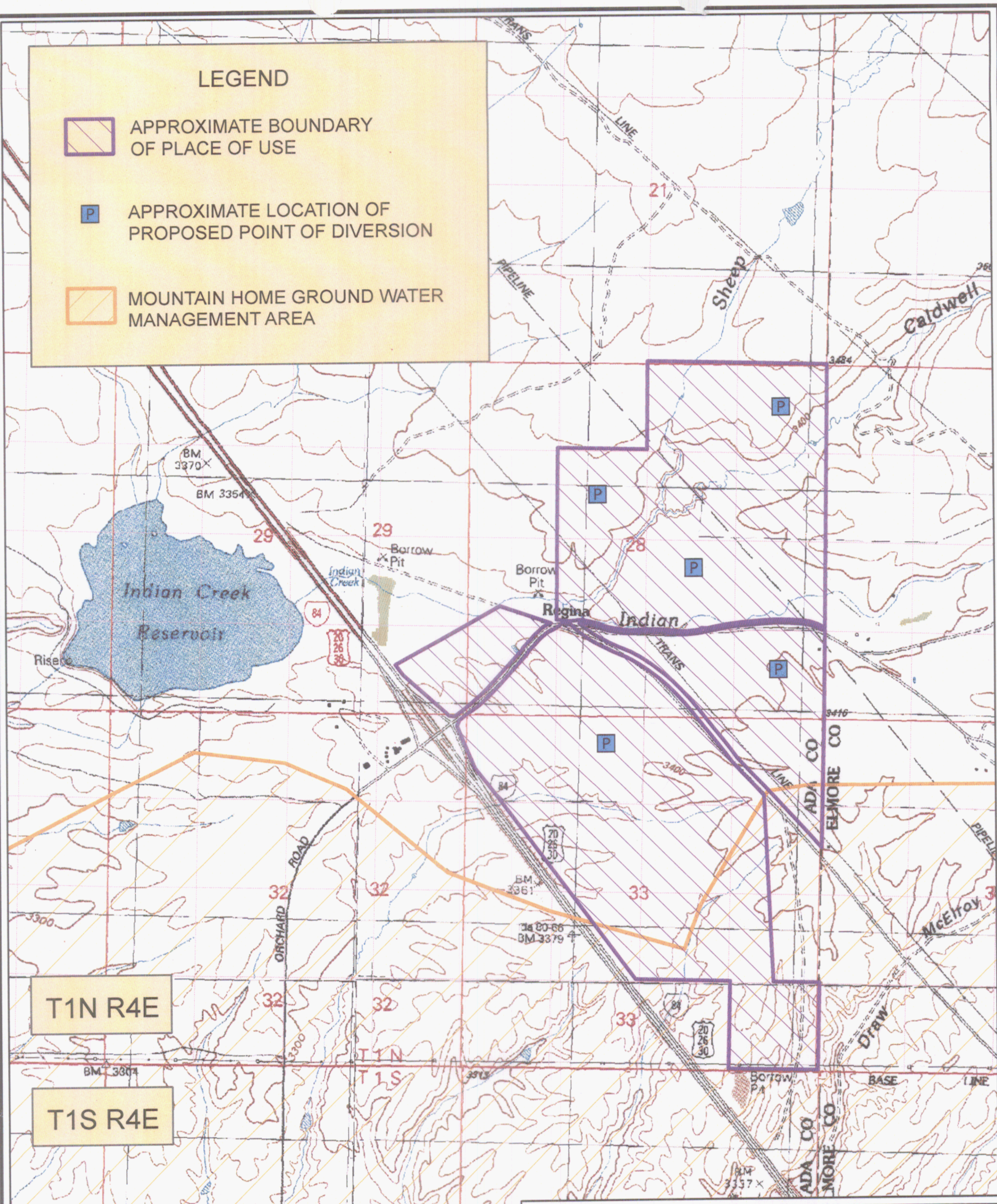
Signature of Applicant (and title, if applicable) President

Received by _____ Date 9/16/05 Time 10:11 am Preliminary check by SL

Fee $ #610.00 Receipted by _____ # W033432 Date 9/16/05

Publication prepared by AK Date 1-5+12-06 Published in THE IDAHO STATESMAN

Publication approved _____ Date 1-23-06 1/5 + 12/2006



ATTACHMENT A. PROPOSED PLACE OF USE AND POINTS OF DIVERSION

0 0.1 0.2 0.4 Miles

SPF Water Engineering, LLC
water resource consultants
600 E. River Park Lane, Ste. 105, Boise, Idaho 83706
tel: 208.383.4140 fax: 208.383.4156

63-32225

IDAHO SECRETARY OF STATE
Viewing Business Entity

Ben Ysursa, Secretary of State

[New Search] [Back to Summary]
[Get a certificate of existence for INTERMOUNTAIN SEWER & WATER, CORP.]

INTERMOUNTAIN SEWER & WATER, CORP.

660 E FRANKLIN RD STE 240
MERIDIAN, ID 83642

Type of Business: CORPORATION, GENERAL BUSINESS
Status: GOODSTANDING 11 Aug 2005
State of Origin: IDAHO
Date of Origination/Authorization: 11 Aug 2005
Initial Registered Agent: GREGORY B JOHNSON
660 E FRANKLIN RD STE 240
MERIDIAN, ID 83642
Organizational ID / Filing Number: C161920
Number of Authorized Stock Shares: 1000
Date of Last Annual Report:

Amendments:

Amendment filed 11 Aug 2005 INCORPORATION — View Document Online, Download (TIFF format)

Idaho Secretary of State's Main Page — State of Idaho Home Page

Comments, questions or suggestions can be emailed to: sosinfo@idsos.state.id.us

REQUEST TO PROCESS

COMPLETE REQUEST IF YOU WANT YOUR APPLICATION TO BE PROCESSED USING ONE OF THE THREE ALTERNATIVES BELOW

Name of Applicant Intermountain Sewer and Water Company

Mailing Address 660 East Franklin Road

Meridian, ID 83642

Application No. (if known) _____

___ IN LOCAL PUBLIC INTEREST

Yes, I want my application processed and before it is advertised, I will amend my application to demonstrate that the proposed appropriation is in the local public interest including the need to preserve flows in the Snake River during the migration periods of anadromous fish.

___ PROPOSE MITIGATION NOW

Yes, I want my application processed and before it is advertised, I will amend my application to include proposed mitigation to offset anticipated depletions in the Snake River during periods of anadromous fish migration.

_X_ WILL AGREE TO MITIGATION IN THE FUTURE IF NECESSARY

Yes, I want my application processed at this time, and I will accept a condition of approval that will require mitigation should the Director of the Idaho Department of Water Resources determine that mitigation is necessary to offset depletions from this appropriation to flows in the Snake River during periods of anadromous fish migration. I understand that mitigation is not required now but may be needed in the future. I also understand that the Director will not require mitigation until I have an opportunity to review the process by which the need for mitigation is established and the amount of water required is quantified.

Signature Gregory B. Johnson

Date 9/14/05

Please return this form to:

Idaho Department of Water Resources
Western Regional Office
2735 Airport Way
Boise, ID 83705-5082

Idaho Department of Water Resources Receipt

Receipt ID W033432

Payment Amount $610.00 **Date Received** 9/16/2005 11:17:09 AM **Region** Western **Status**

Payment Type Check **Check Number** 1683

Payer SPF WATER ENGINEERING LLC

Comment APPLICATION FOR PERMIT FILING FEE FOR INTERMOUNTAIN SEWER & WATER CORP. C/O SPF WATER ENGINEERING LLC

Fee Detail

Amount	Description	Fund	FD	PCA	SO
$610.00	PERMITS	0229	21	62103	1155

Signature Line (Dept. Representative)

NOW STARTING RIGHT SIDE OF FILE

State of Idaho
DEPARTMENT OF WATER RESOURCES
322 East Front Street, P.O. Box 83720, Boise, ID 83720-0098
Phone: (208) 287-4800 Fax: (208) 287-6700 Web Site: www.idwr.idaho.gov.

JAMES E. RISCH
Governor

KARL J. DREHER
Director

February 20, 2007

INTERMOUNTAIN SEWER & WATER CORP
660 E FRANKLIN RD
MERIDIAN ID 83642

RE: Permit No. 63-32225

Permit Approval Notice

Dear Permit Holder:

The Department of Water Resources has issued the enclosed permit authorizing you to establish a new water right. Please be sure to thoroughly review the conditions of approval and remarks listed on your permit.

The permit is a PRELIMINARY ORDER issued by the Department pursuant to Section 67-5243, Idaho Code. It can and will become a final order without further action by the Department unless a party petitions for reconsideration or files an exception and/or brief within fourteen (14) days of the service date as described in the enclosed information sheet.

As a permit owner you must commence the excavation or construction of the diverting works within one year of the date the permit was issued, and you must proceed diligently until the project is completed. The date shown under condition no. 1 is the date when the project must be completed.

The Department will send you a 'Proof Due Notice' approximately 60 days prior to the above referenced date requesting you to file either a Proof of Beneficial Use form or a Request for Extension of Time form.

The right to drill a well is not a part of this permit to appropriate water. Beginning in July of 1987, a statute was enacted which requires a drilling permit for new well construction and deepening of existing wells. If the well(s) proposed for use under this water right permit were drilled or deepened after July 1, 1987, a separate drilling permit must be obtained from this Department. Please contact the Ground Water Protection Section located here at this office or our regional office nearest you.

Also, please note that water right owners are required to report any change of water right ownership and/or mailing address to the Department within 120 days of the change. Failure to report these changes could result in a $100 late filing fee. Contact any office of the Department or visit the Department's homepage on the Internet to obtain the proper forms and instructions.

If you have any questions, please contact me at 208-287-4947.

Sincerely,

for Shelley Keen, Acting Section Manager
Water Right Permits Section

Enclosure(s)

cc: SPF WATER ENGINEERING LLC

CERTIFICATE OF SERVICE

I hereby certify that on February 20, 2007 I mailed a true and correct copy, postage prepaid, of the foregoing PRELIMINARY ORDER(Approved Permit) to the person(s) listed below:

RE: WATER RIGHT NO. 63-32225

INTERMOUNTAIN SEWER & WATER CORP
660 E FRANKLIN RD
MERIDIAN ID 83642

SPF WATER ENGINEERING LLC
C/O TERRY SCANLAN
600 E RIVER PARK LN STE 105
BOISE ID 83706

Emalee Rushing

Emalee Rushing
Technical Records Specialist

CERTIFICATE OF SERVICE

All exceptions, briefs, requests for oral argument and any other matters filed with the Director in connection with the preliminary order shall be served on all other parties to the proceedings in accordance with IDAPA Rules 37.01.01302 and 37.01.01303 (Rules of Procedure 302 and 303).

FINAL ORDER

The Director will issue a final order within fifty-six (56) days of receipt of the written briefs, oral argument or response to briefs, whichever is later, unless waived by the parties or for good cause shown. The Director may remand the matter for further evidentiary hearings if further factual development of the record is necessary before issuing a final order. The department will serve a copy of the final order on all parties of record.

Section 67-5246(5), Idaho Code, provides as follows:

> Unless a different date is stated in a final order, the order is effective fourteen (14) days after its issuance if a party has not filed a petition for reconsideration. If a party has filed a petition for reconsideration with the agency head, the final order becomes effective when:
>
> (a) the petition for reconsideration is disposed of; or
>
> (b) the petition is deemed denied because the agency head did not dispose of the petition within twenty-one (21) days.

APPEAL OF FINAL ORDER TO DISTRICT COURT

Pursuant to sections 67-5270 and 67-5272, Idaho Code, if this preliminary order becomes final, any party aggrieved by the final order or orders previously issued in this case may appeal the final order and all previously issued orders in this case to district court by filing a petition in the district court of the county in which:

i. A hearing was held,
ii. The final agency action was taken,
iii. The party seeking review of the order resides, or
iv. The real property or personal property that was the subject of the agency action is located.

The appeal must be filed within twenty-eight (28) days of this preliminary order becoming final. See section 67-5273, Idaho Code. The filing of an appeal to district court does not itself stay the effectiveness or enforcement of the order under appeal.

Statement of Available Procedures and Applicable Time Limits

RESPONDING TO PRELIMINARY ORDERS ISSUED BY THE IDAHO DEPARTMENT OF WATER RESOURCES

(To be used in connection with actions when a hearing was not held)

(Required by Rule of Procedure 730.02)

The accompanying order or approved document is a "**Preliminary Order**" issued by the department pursuant to section 67-5243, Idaho Code. **It can and will become a final order without further action of the Department of Water Resources ("department") unless a party petitions for reconsideration, files an exception and brief, or requests a hearing as further described below:**

PETITION FOR RECONSIDERATION

Any party may file a petition for reconsideration of a preliminary order with the department within fourteen (14) days of the service date of this order. **Note: the petition must be received by the department within this fourteen (14) day period.** The department will act on a petition for reconsideration within twenty-one (21) days of its receipt, or the petition will be considered denied by operation of law. See Section 67-5243(3) Idaho Code.

EXCEPTIONS AND BRIEFS

Within fourteen (14) days after (a) the service date of a preliminary order, (b) the service date of a denial of a petition for reconsideration from this preliminary order, or (c) the failure within twenty-one (21) days to grant or deny a petition for reconsideration from this preliminary order, any party may in writing support or take exceptions to any part of a preliminary order and may file briefs in support of the party's position on any issue in the proceeding with the Director. Otherwise, this preliminary order will become a final order of the agency.

REQUEST FOR HEARING

Unless a right to a hearing before the Department or the Water Resource Board is otherwise provided by statute, any person aggrieved by any final decision, determination, order or action of the Director of the Department and who has not previously been afforded an opportunity for a hearing on the matter may request a hearing pursuant to section 42-1701A(3), Idaho Code. A written petition contesting the action of the Director and requesting a hearing shall be filed within fifteen (15) days after receipt of the denial or conditional approval.

ORAL ARGUMENT

If the Director grants a petition to review the preliminary order, the Director shall allow all parties an opportunity to file briefs in support of or taking exceptions to the preliminary order and may schedule oral argument in the matter before issuing a final order. If oral arguments are to be heard, the Director will within a reasonable time period notify each party of the place, date and hour for the argument of the case. Unless the Director orders otherwise, all oral arguments will be heard in Boise, Idaho.

MEMORANDUM

To: File no. 63-32225 in the name of Intermountain Sewer and Water
From: Gary Spackman
Date: January 11, 2007

Re: Recommended Conditions of Approval

I reviewed the file after it was submitted to the state office. In particular, I reviewed the additional information report submitted by SPF Engineers.

The SPF report estimated a ground water boundary, applied average precipitation over the boundary, and roughly calculated average annual recharge volume to the deep regional aquifer. Because the actual computation of the actual recharge was low, SPF increased its estimate of recharge based on the initial coarse computations.

In the water balance computation, SPF assumed that all recharge attributed to flowing streams would reach the deep regional aquifer. In the report, however, SPF also recognizes shallow, perched aquifers associated Indian Creek. The geologic stratum that creates the shallower water table impedes downward movement of water. A significant portion of the perched water in the Indian Creek Drainage may migrate away from the regional aquifer without ever percolating and recharging the deep aquifer. As a result, the low estimate of 8,000 acre feet of aquifer recharge may be high. The average annual recharge to the designated boundary could be as low as approximately 4,000 to 5,000 acre-feet.

Significant additional development is proposed in the vicinity of the development proposed by Intermountain. Presently, there are no sources of recharge through delivery of surface water, and ground water is the sole source of culinary/potable water in the area. IDWR has not been approving new applications for irrigation in basin 63. As a result, irrigation of common areas, large parks, and in particular, irrigation of an 18 hole golf course should not be allowed under the proposed appropriation unless the land is irrigated with water already used for culinary/potable use, captured and treated in the waste water treatment plant.

I recommend the following conditions of approval:

Common areas, parks, school grounds, golf courses, and any other large parcels may only be irrigated with wastewater that has been previously beneficially used for potable or culinary purposes, has been treated in a wastewater treatment plant, and is delivered from the wastewater treatment plant to the parcel to be irrigated.

Water diverted under this right may be used for direct irrigation of up to one half acre per residential lot upon which a home has been constructed.

(Other conditions)

additional concern

limited resource – municipal area might increase to serve more homes and utilize the 10 cfs to fullest extent. If similar applications in the area are approved, the expansions could surpass the recharge available.

up to
10 x 1.98 x 365
= 7200 cf

Should approval be conditioned to require wells in the deep aquifer?

well monitoring?

Memorandum
To: File #63-32225
From: J. Westra JFW
Date: 12/04/06

RE: Application for Permit 63-32225

I would recommended the approval of the above application based on the following:

-The point of diversions are not located in a groundwater management area

-Municipal applications can be processed in basin 63

-SO Hydrology section has reviewed the hydrology information provided.

-There were no protests presented.

As there is really no data to prove the sustainability of the aquifer in this area, I would recommend that well monitoring and reporting be a condition of approval for this permit.

MEMORANDUM

September 16, 2006

To: Steve Lester

Rec'vd via email

From: Shane Bendixsen

Reviewed by: Garth Newton

Subject: Application For Permit 63- 32225, Mayfield Planned Community and Report by SPF Water Engineering LLC.

The applicant is proposing to divert 10 cfs for an estimated 2,000 Households north of Mountain Home, T01N-R04E, sec 33 (see Attachment #1). The site is located on the northern edge hydrologic unit code (HUC), which is also the northern boundary for the Mountain Home Ground Water Management Area (GWMA). The following is a brief hydrologic review.

Attachment #2 presents a ground water level change map for the GWMA. As presented, the GWMA can be characterized by two areas: the southern part where the water table has dropped by as much as 60 feet and the northern part where the water table rises two to four inches per year.

While the exact reason for one area declining while the adjacent increases have never been totally explained, part has to do with land use. The southern area is characterized by ground water pumping for agricultural use while the northern area is characterized by limited domestic use. Attachment #3 presents cumulative use in cfs based on priority date for the entire HUC. As shown, agricultural use far exceeds other uses.

SPF has assumed that 80 percent of water used for domestic use returns to the aquifer. For the Eastern Snake River Plain Model, it has been assumed that 90 percent returns to the aquifer. Therefore it can be assumed that 80 to 90 percent of water for domestic use is non-consumptive. Agricultural use is almost totally consumptive.

Effects on the GWMA boundary should be minimal. Attachment #1 presents the ground water flow direction based on the 1980 RASA work. It is the most comprehensive work for the Western Snake Plain (WSP). The ground water flow direction is southwest and approximately the same as presented by SPF. Water flowing through the proposed

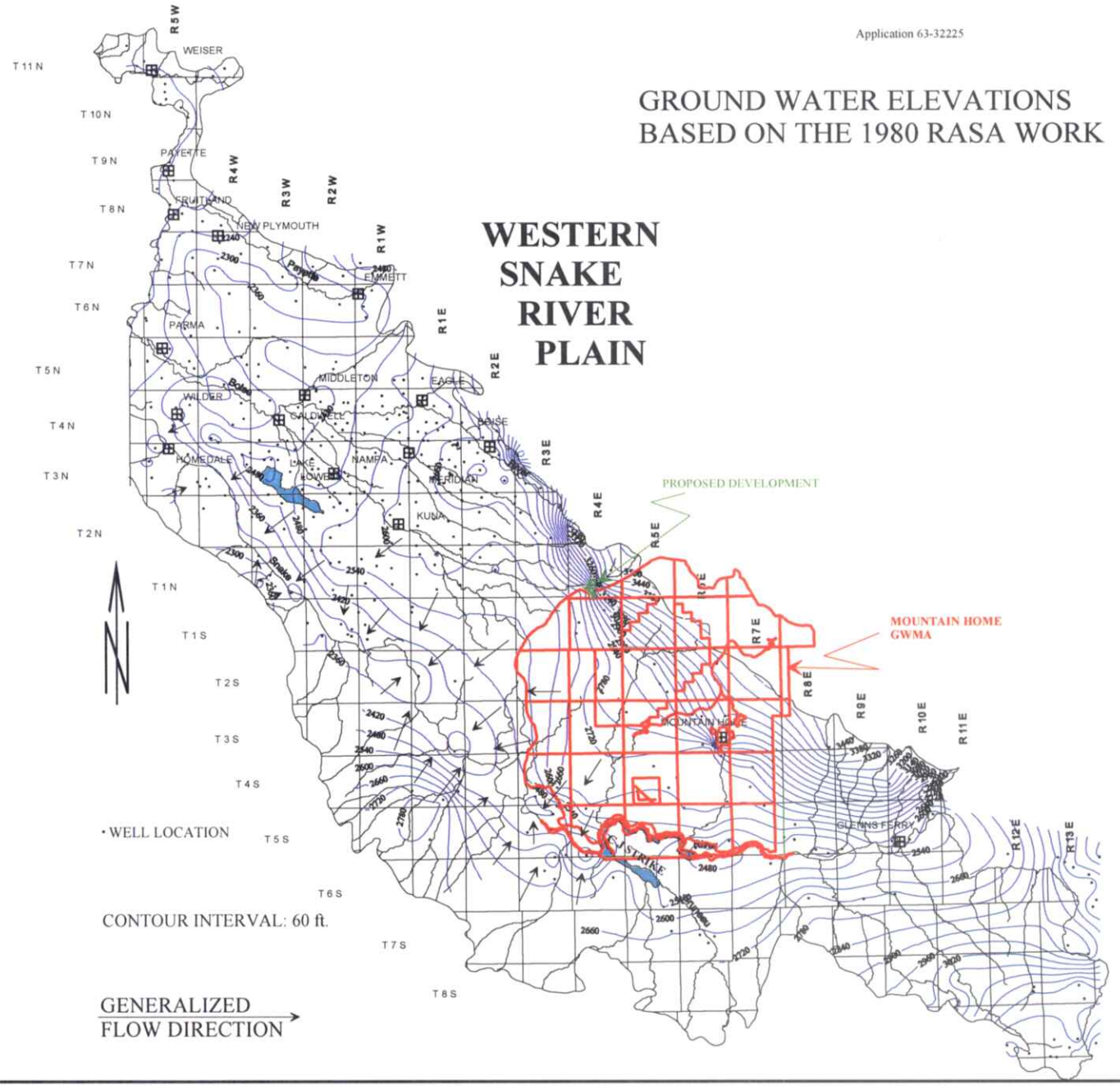
development area does not flow into the GWMA. Therefore effects on the boundary will be extremely minimal.

The protestants refer to the area as a limited ground water resource area. The GWMA is one of these areas to the south, but farther north water levels are increasing not decreasing.

In closing, the proposed development should have limited effects on ground water. This is based on rising ground water levels and the limited consumptive use of domestic development. It is recommended that the applicant should begin some type of ground water monitoring. One up gradient monitoring well and two down gradient would be preferable.

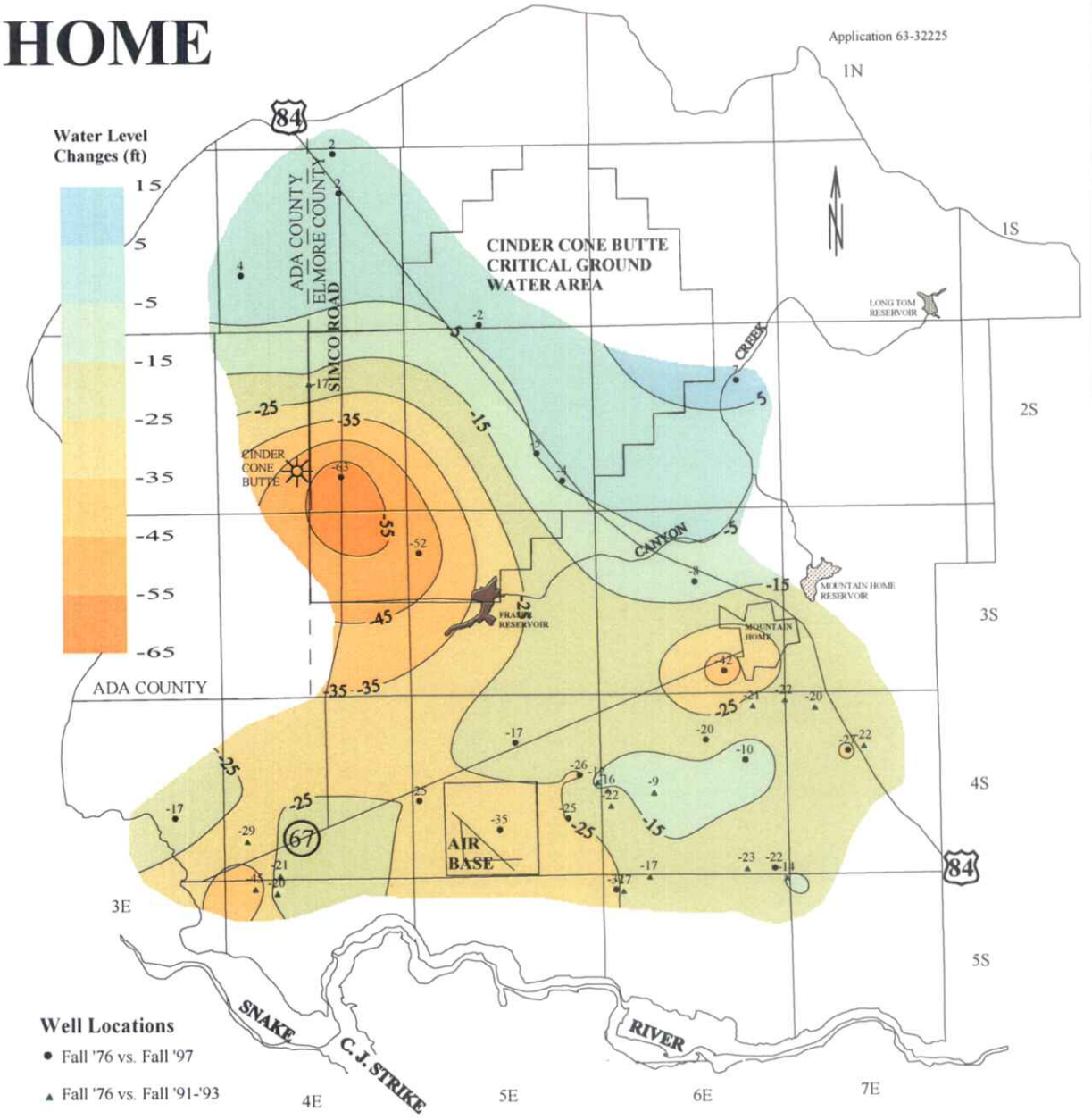
Application 63-32225

GROUND WATER ELEVATIONS BASED ON THE 1980 RASA WORK



MOUNTAIN HOME GWMA

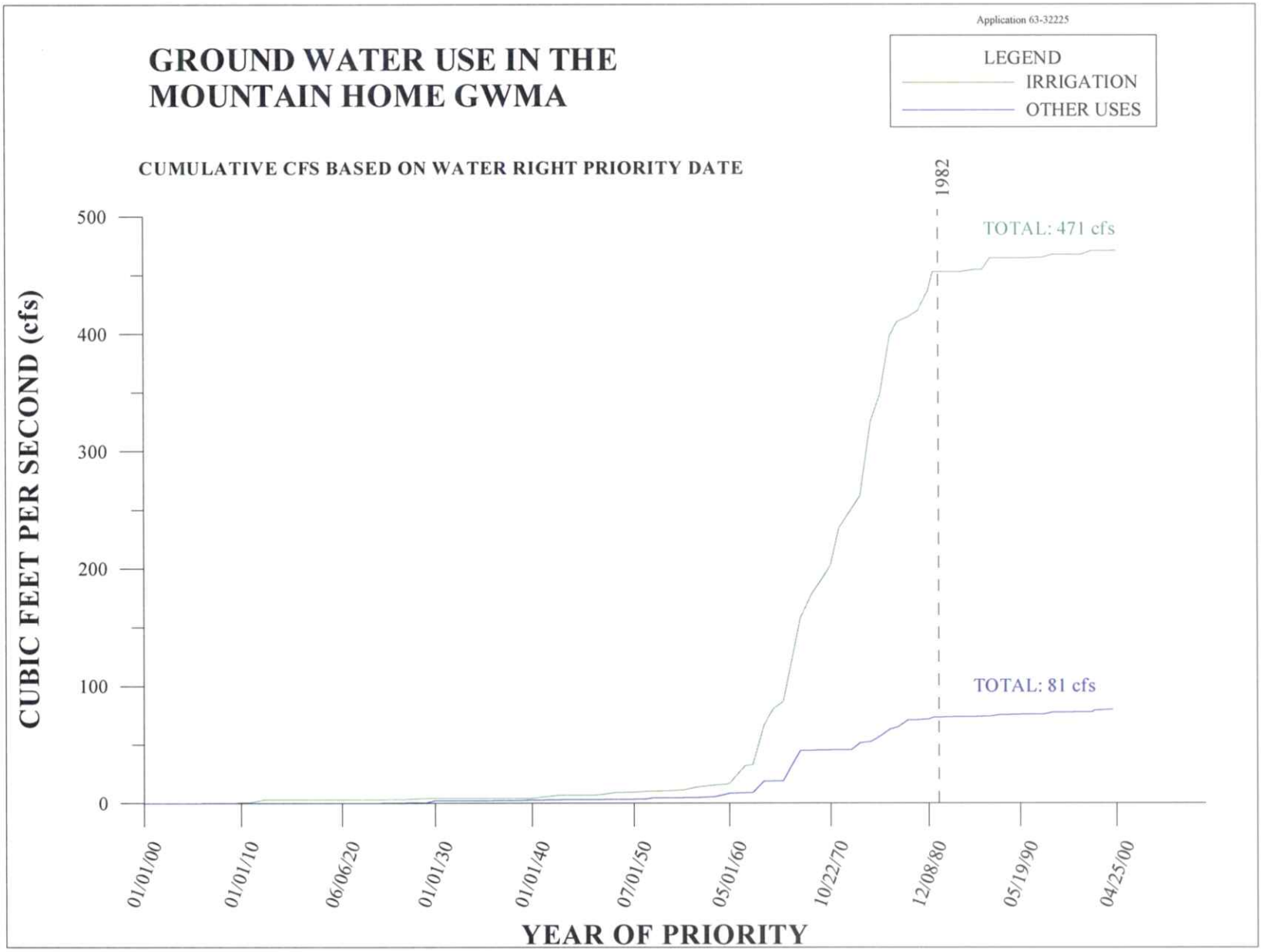
GROUND WATER LEVEL CHANGE MAP



ATTACHMENT#2

Application 63-32225

GROUND WATER USE IN THE MOUNTAIN HOME GWMA



ATTACHMENT #3

Westra, John

From: James Bledsoe [jbledsoe@kellerassociates.com]

Sent: Thursday, June 08, 2006 7:20 AM

To: Charles.Ariss@deq.idaho.gov; Westra, John

Cc: 'Taylor Merrill'; Gary Carroll; Roland Rocha; Jim Keller

Subject: Mayfield Springs Meeting Minutes from Meeting on June 6, 2006

Chas and John,

I appreciate your time in visiting with us yesterday to discuss the Mayfield Springs project. I thought that I would spend a few minutes and document what we talked about yesterday. If you have any corrections or additional clarifications, please respond back to this email.

Project Overview / Flow projections

- Phasing – The development will likely see approximately 300 homes the first year and 400-500 homes each year thereafter. For planning purposes, Keller Associates is assuming approximately 500 homes per year. This would result in the first phase being built out in five years. In reality growth in Elmore County may begin before the end of the five years and some of the lots in Ada County may take longer than five years to sell. All things considered, assuming about 500 homes per year is our best estimate of what might happen.
- Density – A correction to the agenda was made. The density anticipated in Elmore County is 3.5 homes/acre. This correction would result in a projected average day demand of about 1.3 MGD to 1.4 MGD for the currently planned developments in approximately 875 acres in Ada County and about 1000 acres in Elmore County.
- Future Phases – Other property owners have approached the developers about the possibility of getting sewer service. The sewer sheds are such that a few interceptor pipelines should be oversized to accommodate future growth "upstream"

Wastewater Treatment

- It is our intent to use a MBR facility for treatment.
- We will be looking at a minimum of Class B effluent, but will be considering seriously Class A effluent because fewer restrictions are placed on its used.

Wastewater Disposal

- Several alternatives were considered. It is unlikely that we will pursue an alternative that would require an NPDES permit. Chas explained that to obtain an NPDES permit for a private development, we might see a 5 year waiting period.
- Land application appears to be the most promising use of the treated water. Initially, we hope to use most/all of the water for the golf course. As flows increase, the golf course will not be able to use all of the annual flow from the development. Reuse on common areas, private residential landscape, and agricultural irrigation will all be considered.
- Chas indicated that to reuse the water, we would need a reuse permit and that this permit would likely take 6 months to obtain. Greg Johnson directed Keller Associates to begin on this as soon as feasible.
- Chas also indicated that we would need a Class A effluent if we intended to discharge to an unlined conveyance or storage facility. The point of compliance for Class A effluent is after treatment and adequate disinfectant contact time and before discharge to the storage or unlined conveyance system.
- Use of class A effluent on private residences is only allowed during periods of "non-use (i.e. night-time) would likely require special CC&Rs and "Non-potable" labeling. Chas indicated that early morning would be an acceptable time period for irrigation.
- Most likely we will pursue rapid infiltration as a means to dispose of excess treated water – especially in the winter time when water would otherwise have to be stored. Regarding RI:
    - John Westra indicated that this would be viewed very favorably by IDWR because of its location in the Mountain Home groundwater management area
    - Chas indicated that we would need a permit with DEQ for RI and that there may be additional treatment requirements imposed on the WWTP in order to meet the requirements of the Groundwater

Quality Rule. Specifically, a nitrate level of 5ppm may be imposed, unless background data and possibly a nutrient path study were able to document that a higher concentration would not violate the groundwater quality rules.

- John Westra was not aware of any perched aquifers in the area south of the interstate. Greg Johnson reported that the static groundwater level is around 350 feet below ground surface at a well near the golf course. Groundwater levels south of the interstate and further away from Indian Creek are reportably deeper.
- South of the interstate, there are reportably a lot of sands above the basalt. Greg Johnson directed Keller Associates to compile a list of geotechnical data that we will need to gather as part of our pre-design efforts. This geotechnical information will be collected by Klienfelder.

Treated Storage

- A lined golf course pond will provide some storage and will likely serve as the winter storage for the first couple years.
- Surplus water in the winter will likely be sent to a storage facility south of the Interstate. This storage facility may or may not be lined. Conveyance may be via natural channel or pipe. Water stored in the lower pond will likely be used for agricultural irrigation or allowed to enter the groundwater via infiltration.

Natural Conveyance and Earth Dam Option

- Discussed at the meeting was the possibility of constructing an earth dam and use the natural drain to convey and store the water.
- IDWR indicated that if we collected the storm water from this drainage (which is relatively small), we would need a surface water right. It may not be difficult to obtain this right, but it would likely require 6 months. Greg Johnson directed Keller Associates to begin this process with IDWR.
- Chas indicated that EPA may or may not consider this natural draw as "waters of the US." Keller Associates will pursue a determination from the Army Corp of Engineers and will then pursue a regulatory determination from EPA. Our local EPA contact is Maria Lopez (373-5616).
- In the event that EPA requires an NPDES permit for use of the natural draw as our conveyance, Greg Johnson indicated that we would probably just pipe the effluent to the storage pond and keep the storage pond separate from the drainage system.
- BLM's approval will be required if the project involves there land. As a minimum, we will likely be looking at getting an easement for our treated water to cross their land. It is possible that the land may be purchased at a future date, depending on the designation of this section of land post 2008. At this point, we are not planning on obtaining the land for the use of a natural storage facility.

James Bledsoe, PE
Keller Associates, Inc.
(208) 288-1992

MEETING NOTES
Mayfield Springs Dev.

From: J. Westra
Date 6/6/06
Location: Keller Eng. Offices, Meridian

Parties: Greg Johnson
James Bledsoe
Chaz Ariss—DEQ
Mr. Keller
Several other related business parties.

RE: Water and Waste Water Discussion

-The discussion began with Mr. Bledsoe presenting the project, phases, and boundaries. See attached maps and outlines.

- Development will utilize treated waste water (cat.A) for irrigation of yards and golf course any excess will be used for Ag. land irrigation –parcel south of I-84 owned by Johnson

-Discussed options of treated waste storage in natural draw with dam—lined and unlined. winter storage and pump back to place of use.

-If there is collection of surface water from natural draw, a water right is needed. IDWR will process an application.—draw flows are minimal.

-Looked at possibilities of obtaining permits for discharge into draw----not real good response from DEQ.—Was not that familiar with lingo/Chaz stuff.

-Discussed treatment of waste by membrane and water quality standards.

-Updated group on water application status—not protested, continue to process. Lots of questions about water supply—area well production. Refered them to Scanlan.

Related IDWR Actions:

-James B. will implement the filing of a water right with IDWR for surface water storage from natural draws—assist with details.

Attachments: Meeting Agenda, Maps

Mayfield Springs

Meeting with IDWR and DEQ
June 6, 2006

Purpose of Meeting

- Make DEQ and IDWR aware of wastewater disposal issues of Mayfield Springs project
- Review / identify permit requirements, special constraints, and other pertinent issues that will need to be addressed as part of the agency review and approval process

Overview of Project

- Location – near truck stop, between Mountain Home and Boise
- Maps – see attached
- 1st Phase – Ada County
    - 875 total acres
    - Approx. 2400 EDUs (Res. & Commercial)
    - 175 acre, 18 hole golf course
- 2nd Phase – Elmore County
    - Add'l 1000 acres
    - 2.5 homes/acre
- Future Phase – Elmore County

Wastewater Flow Projections

Phase 1 (Ada County Only) = 0.53 MGD Average Day Flow
Phase 2 (Elmore County Plus Ada County) = 1.1 MGD Average Day Flow
Future Phases = 0.22 MGD per 1000 EDUs 1.4

5 yrs. 400 - 500 homes / yr.

Wastewater Treatment

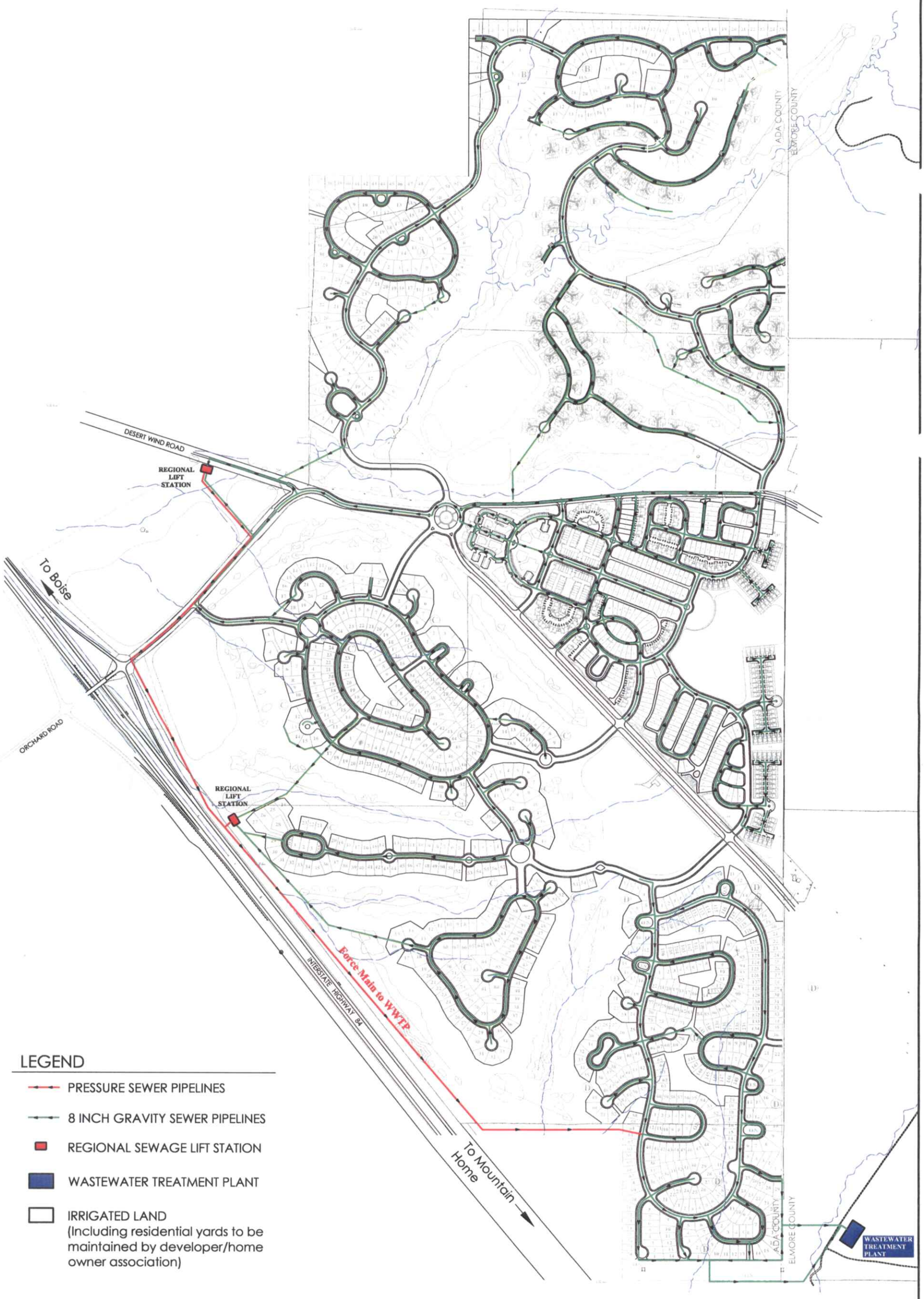
- MBR treatment technology
- Class B effluent
- Possibility of going to Class A effluent

Reclaimed Water Disposal

- Intent to use for irrigation of golf course and common areas
- Possibility of irrigating residential areas
- Also considering land application for agricultural crops
- As flows increase, desire rapid infiltration during winter months to reduce storage needs (aquifer recharge)
- Possible WWTP discharge to Indian Creek or normally dry drainage channels for conveyance to storage facilities or RI basins

Reclaimed Water Storage

- Lined versus unlined
- Possibility of damming up natural drainage way



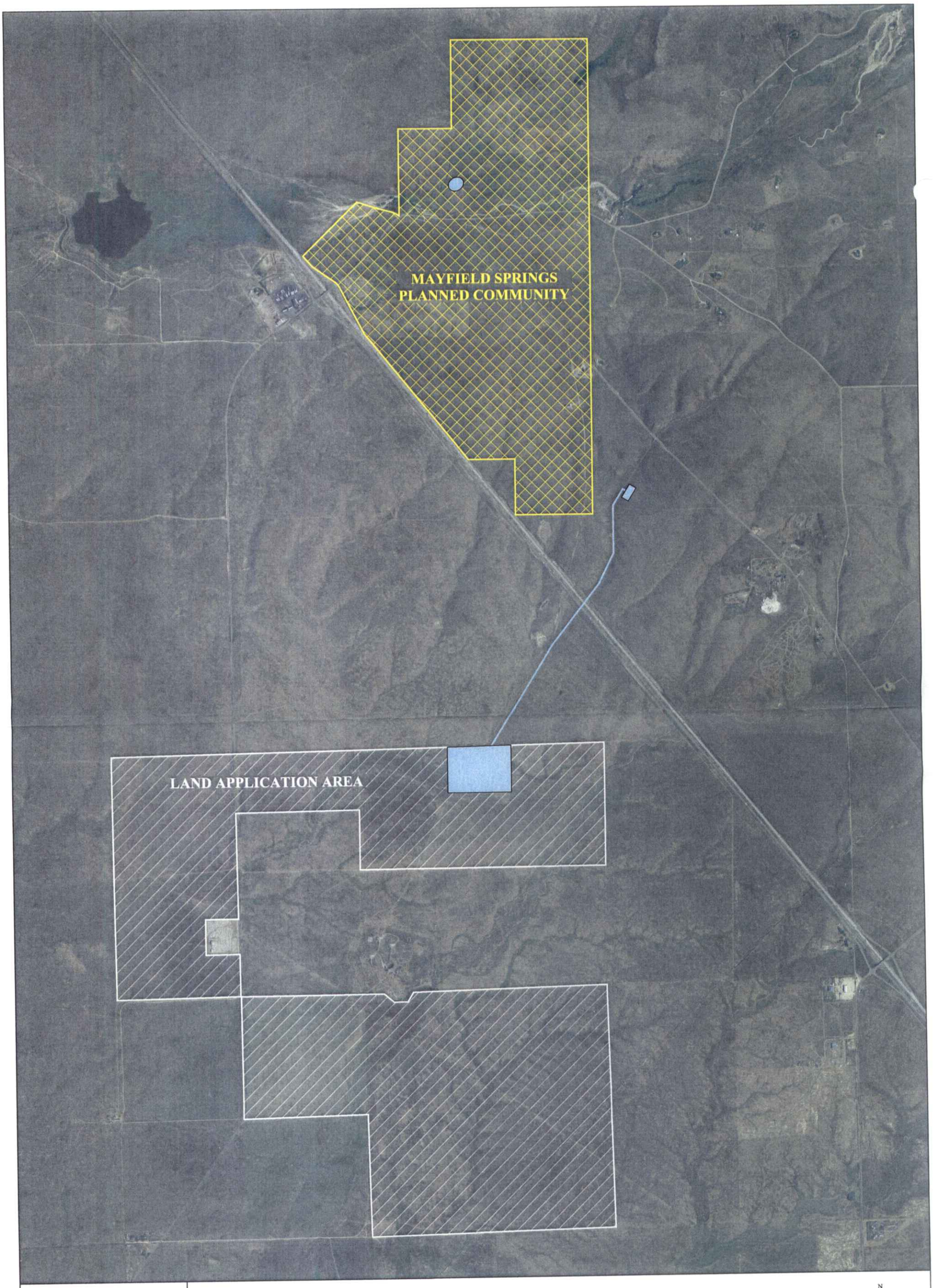
WASTEWATER MASTER PLAN

KELLER ASSOCIATES

0 400 800 1600

Scale 1:800

Mayfield Springs
Planned Community
May 2006



PROJECT AREA

N
W E
S

0 300 600 1200

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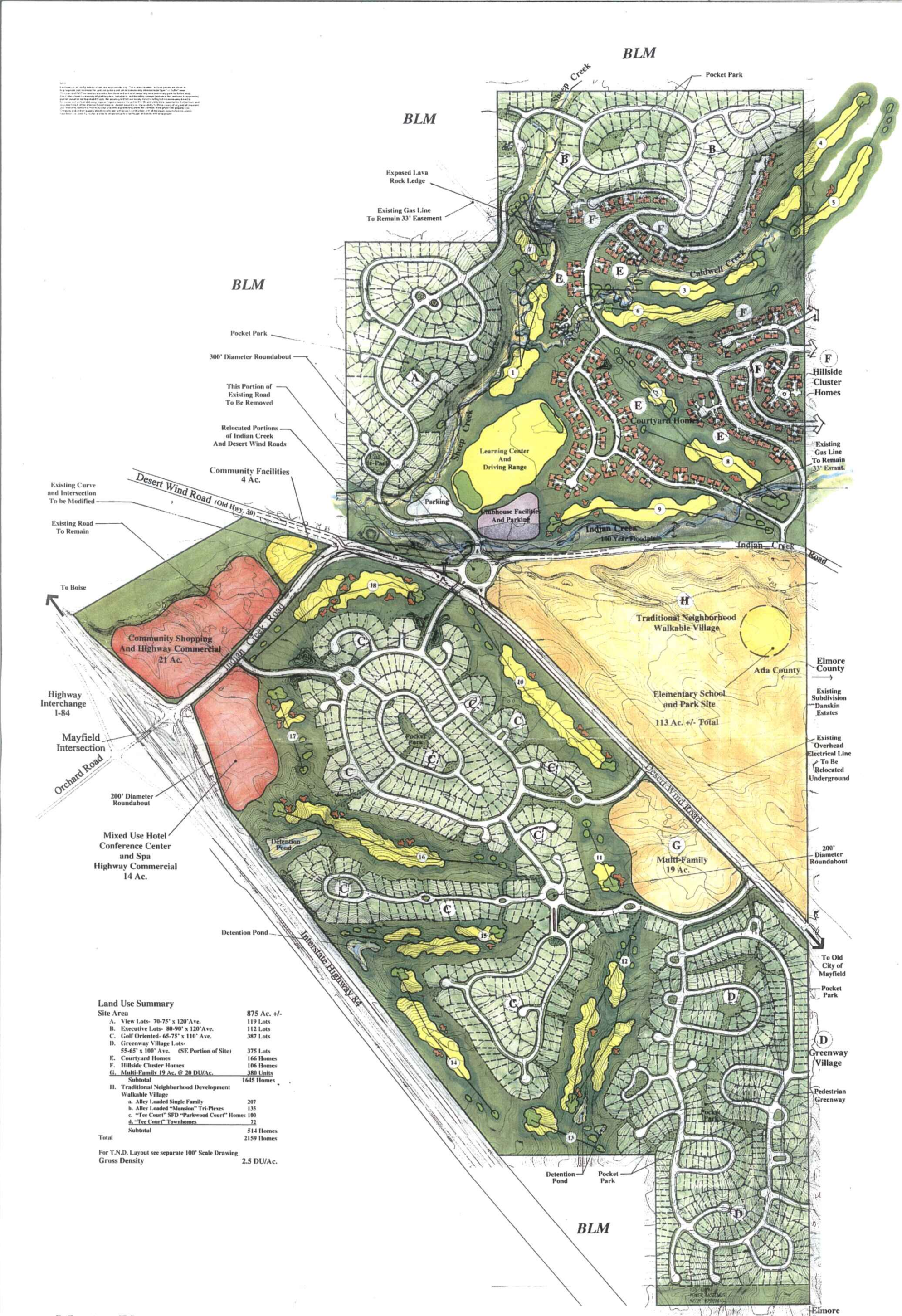
KELLER ASSOCIATES

Mayfield Springs
Planned Community
May 2006



Land Use Summary

Site Area	875 Ac. +/-
A. View Lots- 70-75' x 120'Ave.	119 Lots
B. Executive Lots- 80-90' x 120'Ave.	112 Lots
C. Golf Oriented- 65-75' x 110' Ave.	387 Lots
D. Greenway Village Lots-	
55-65' x 100' Ave. (SE Portion of Site)	375 Lots
E. Courtyard Homes	166 Homes
F. Hillside Cluster Homes	106 Homes
G. Multi-Family 19 Ac. @ 20 DU/Ac.	380 Units
Subtotal	1645 Homes
H. Traditional Neighborhood Development Walkable Village	
a. Alley Loaded Single Family	207
b. Alley Loaded "Mansion" Tri-Plexes	135
c. "Tee Court" SFD "Parkwood Court" Homes	100
d. "Tee Court" Townhomes	72
Subtotal	514 Homes
Total	2159 Homes

For T.N.D. Layout see separate 100' Scale Drawing

Gross Density 2.5 DU/Ac.

Master Plan
Mayfield Springs
Ada County, Idaho

For:
Powder River Development Corp.
Greg Johnson, President
660 East Franklin Road
Suite 240
P.O. Box 344
Meridian, Idaho 83680

Land Planner:
David A. Clinger & Assoc. Ltd.
21759 Cabrini Boulevard
Golden, Colorado 80401
303-526-9126

05037

January 20, 2006
February 3, 2006

MEMORANDUM

TO: Shane Bendixsen

FROM: Steve Lester

DATE: June 2, 2006

RE: Technical Analysis of SPF Water Engineering Report

Western Region is processing Application 63-32225 for a planned community near the truck stop between Boise and Mtn. Home in the Mayfield area. **The following information is enclosed:**

1. copy of the application
2. copy of my 12/16/06 letter requesting additional information
3. copy of an attempted protest (filed too late but department will consider that person's comments and concerns)
4. original SPF 3/20/06 response/report.

Please review this information to determine if the SPF report sufficiently addresses the following concerns:

1. effect on existing water rights in that area[1], sufficiency of water supply for the site, and water-related issues for people within the same watershed (local aquifer?)[2]
2. effect on Mtn. Home GWMA boundary
3. issues identified by the person who tried to protest the application.

Your analysis of the **technical issues**, without having to worry about financial and other non-technical issues, would be very helpful. Please return the SPF report with your reply and let me know if you need more information or any other help. Thank you for your help.

---

[1] Assume that impact area includes the area in which ground water declines would occur under the proposed development. Also assume it includes any surface water systems impacted by the proposed ground water pumping.

[2] Same parameters as footnote #1.

SPF Water Engineering, LLC
water resource consultants

March 20, 2006

Steve Lester
IDWR - Western Region
2735 Airport Way
Boise, ID 83705

Subject: Application for Permit No. 63-32225 for Intermountain Sewer and Water Corporation

Dear Steve:

In response to your December 16, 2005 request for additional information regarding the above-referenced application, this letter addresses additional information requirements under Idaho Water Appropriation Rule 40, Rule Subsections 040.05c through 040.05g. Included is information about the following:

1. Effect on existing water rights
2. Sufficiency of water supply
3. Good faith, delay, or speculative purposes
4. Financial resources
5. Local public interest

The following paragraphs provide the requested additional information. Supporting data and analysis are provided in the accompanying report titled "Water Supply Assessment for the Mayfield Springs Planned Community."

Subsection 040.05(c)ii - Plat showing proposed wells relative to existing wells and springs within ½ mile radius

not Figure 17 — A map showing locations of proposed wells relative to existing wells within a 0.5-mile radius is shown in the accompanying report (Figure 17). We are not aware of any springs in this area.

Subsection 040.05(c)iii - Information concerning any design, construction, or operation techniques to eliminate or reduce the impact on other water rights.

The primary target for proposed withdrawals will be deeper aquifers, with wells extending to depths of 800 feet or more. This will reduce or eliminate impacts to existing water rights diverting from shallow wells and/or surface channels.

600 East River Park Lane, Suite 105, Boise, Idaho 83706 Tel: 208-383-4140 Fax: 208-383-4156

To the extent possible, wastewater from domestic uses will be recovered and reused for irrigation purposes. This will reduce the amount of ground water withdrawals required for the proposed community.

Subsection 040.05(d)i – Water requirements for the proposed project

Water demand estimates for the Mayfield Springs planned community are outlined in Section 1.3 of the attached report. The maximum instantaneous peak water demand for this development is anticipated to be 10.0 cfs. This includes 2.5 cfs for domestic use in 2,000 homes, 6.0 cfs for landscape irrigation of 300 acres (0.15 acres per home), 0.50 cfs for commercial uses, 0.5 cfs for industrial uses, and 0.5 cfs for miscellaneous uses. Fire protection flows will be provided with storage reservoirs.

The period of use will be January 1 through December 31. The annualized average diversion rate is estimated to be approximately 2.5 cfs (1,130 gpm). The average annual diversion volume is estimated to be approximately 1,815 acre feet.

Subsection 040.05(d)ii – Quantity of water available

Aquifers underlying the Mayfield Springs area are present in unconsolidated sediments and volcanic layers. The primary water-bearing zones are found in coarser-grained sedimentary zones (such as sand and gravel layers) or in fractured basalt or cinder zones. Recharge to shallow aquifers occurs through areal infiltration and seepage from surface water bodies (e.g., Indian Creek, tributaries to Indian Creek, and Indian Creek Reservoir). Recharge to deeper aquifers occurs as downward flow from overlying shallow aquifers and underflow at basin margins. Total aquifer recharge in an average year likely ranges from approximately 8,600 to 32,000 acre feet. This amount of estimated recharge in is substantially greater than the anticipated amount required for new uses (1,815 acre feet for the proposed planned community) and existing uses (700 acre feet) in the Mayfield Springs area.

Subsection 040.05(e)i – Information relative to good faith, delay, or speculative purposes of the applicant

The following documents are enclosed.

1. Real Estate Purchase Agreement between Greg Johnson (Buyer) and Helen Agenbroad (Seller)

2. Warranty Deed from North Valley Land, LLC to Greg and Heidi Johnson, Scott Merrill, and Spencer Merrill.

3. Warranty Deed from M R Miller Inc., to Greg and Heidi Johnson
4. Warranty Deed from Keith and Sandra Helmick to Greg and Heidi Johnson
5. Warranty Deed from Petre and Wendi Draghici to Greg and Heidi Johnson
6. Warranty Deed from James and Bonnie Phagan to Greg and Heidi Johnson (We discovered that the Warranty Deed incorrectly lists this sale to Greg and Marilee Johnson. This error will be corrected.)
7. Warranty Deed from James and Cynthia Thompson to Heidi Johnson
8. Warranty Deed from Robert and Elizabeth Garrard to Greg and Heidi Johnson

These deeds and the purchase agreement cover all of the property within the proposed place of use. Greg Johnson is the registered agent for Intermountain Sewer & Water Corp.

Subsection 040.05(e)ii – Copies of other needed permits, licenses and approvals

Intermountain Sewer & Water will submit plans and specifications for all water and sewer facilities to the Idaho Department of Environmental Quality (IDEQ).

If Intermountain Sewer & Water becomes a for-profit utility, it will make any necessary filings with the Idaho Public Utilities Commission.

A planned community application for Mayfield Springs will be submitted to Ada County Planning and Development Services Department within the next two months.

$ info confidential

Subsection 040.05(f)i – Current financial statement

A financial statement or a similar document is contained in the sealed envelope accompanying this letter. Greg Johnson provided this envelope to us for your review.

Subsection 040.05(f)i – Plans, specifications, and construction cost estimate

Detailed plans and specifications have not been prepared for the project. We currently anticipate that the project will include a minimum of three 16-inch diameter wells, each extending to a target depth of approximately 900 feet. The project will also include a storage tank, booster pump station, and distribution piping. Total costs for wells, storage, and booster pump station will be approximately $3 million. A preliminary estimate of costs for distribution and

transmission piping is $4.5 million, based on an estimated 100,000 feet of pipe, with an average installed cost of $45 per foot including appurtenances (hydrants, valves, services, etc.).

Subsection 040.05g – Information relative to public interest

As stated previously, a planned community application for Mayfield Springs will be submitted to Ada County Planning and Development Services Department within the next two months.

Intermountain Sewer and Water will submit to IDEQ detailed Technical, Financial, and Managerial Capacity documents, and plans, specifications, and as-built certifications for all water facilities. IDEQ approval is required for Intermountain Sewer and Water to become a public water supply, as defined by Idaho Code 39-103(12). A corporation that supplies water for municipal purposes through a regulated public water supply meets the definition of a municipal provider.

Other information requested.

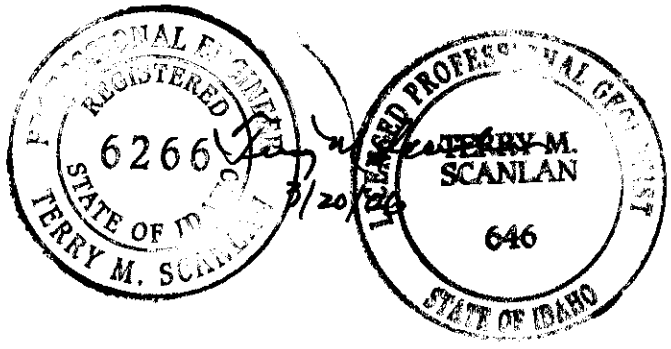
IDWR guidelines for internal domestic water use suggest that about 2.08 cfs is required for 2000 homes. However, Idaho Rules for Public Drinking Water Systems (IRDWS) Section 552.01 requires a minimum daily production capacity of 800 gpd per unit for domestic uses (without irrigation). The required peak-day flow rate to serve 800 gpd per unit for 2,000 homes would be approximately 2.5 cfs.

The proposed appropriation (estimated average annual withdrawals of approximately 2.5 cfs) is not anticipated to have a significant impact on water rights and water levels within the Mountain Home Ground Water Management Area. As detailed in the enclosed report, ground water levels in the Mayfield Springs vicinity are stable, and recharge rates appear to be sufficient to support the proposed water use. The Ground Water Management Area boundary is based on the drainage divide between the Indian Creek watershed and Sand Hollow. This boundary is also the boundary between administrative basins 61 and 63. With respect to ground water conditions, the ground water management area boundary is an administrative boundary, and pumping under the proposed permit should not cause the boundary migrate or change.

Sincerely,

Terry M. Scanlan, P.E., P.G

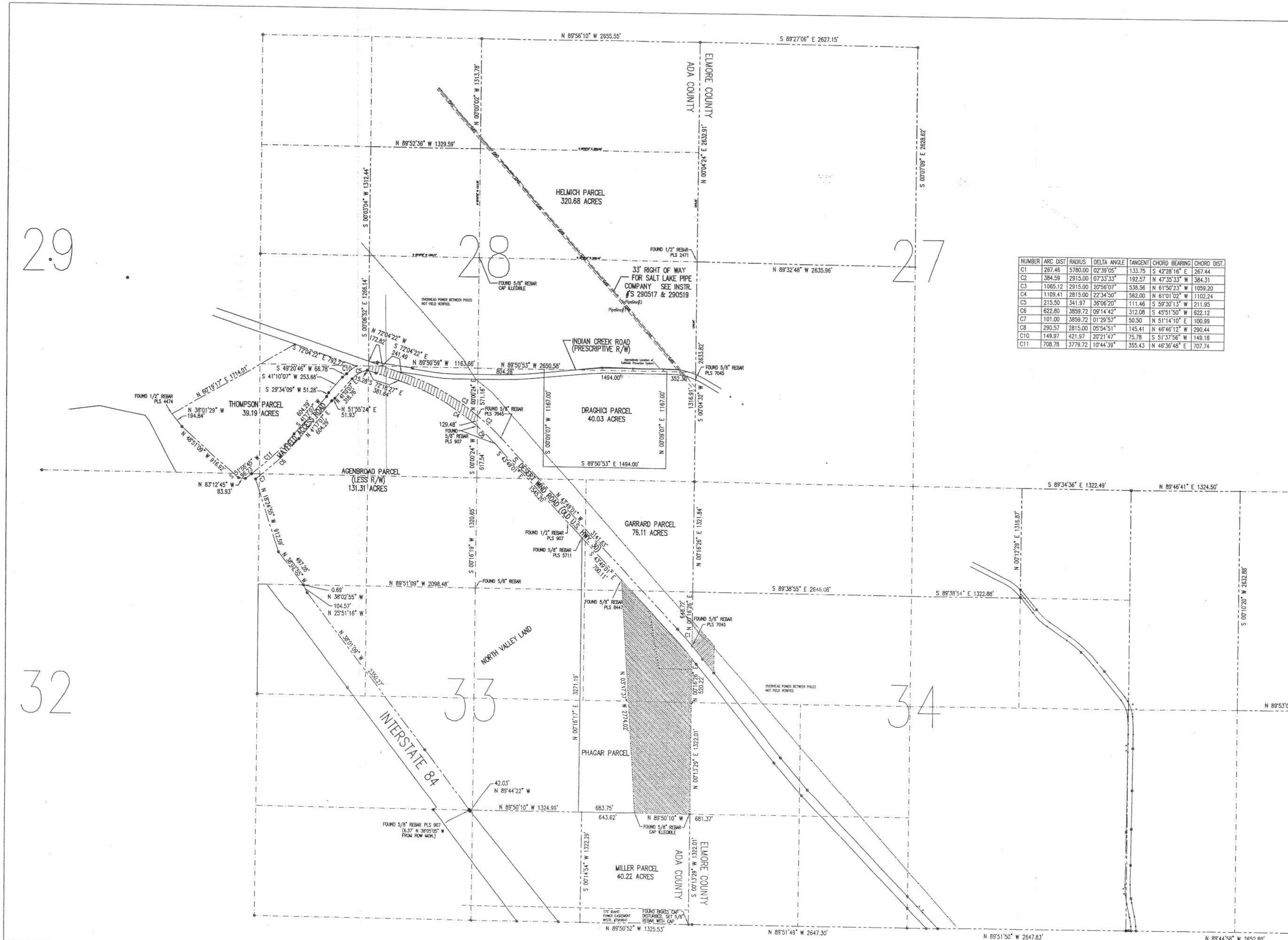
cc: Greg Johnson



Attachments

1. "*Water Supply Assessment for the Mayfield Springs Planned Community*"
2. Deeds and purchase agreement.
3. Financial information

Document Info:
Filename: S:\Projects\S thru Z Projects\W Projects\West Park Company_329\0050_stagestop_water_study\Response to SL(IDWR) re PermitQs.doc
SPF file number: 329.0050



NUMBER	ARC DIST	RADIUS	DELTA ANGLE	TANGENT	CHORD BEARING	CHORD DIST.
C1	267.46	5780.00	02°39'05"	133.75	S 42°28'16" E	267.44
C2	384.59	2915.00	07°33'33"	192.57	N 47°35'33" W	384.31
C3	1065.12	2915.00	20°56'07"	538.56	N 61°50'23" W	1059.20
C4	1109.41	2815.00	22°34'50"	562.00	N 61°01'02" W	1102.24
C5	215.50	341.97	36°06'20"	111.46	S 59°30'13" W	211.95
C6	622.80	3859.72	09°14'42"	312.08	S 45°51'50" W	622.12
C7	101.00	3859.72	01°29'57"	50.50	N 51°14'10" E	100.99
C8	290.57	2815.00	05°54'51"	145.41	N 46°46'12" W	290.44
C10	149.97	421.97	20°21'47"	75.78	S 51°37'56" W	149.18
C11	708.78	3779.72	10°44'39"	355.43	N 46°36'48" E	707.74

BRIGGS ENGINEERING, INC.

BRIGGS

ENGINEERS PLANNERS SURVEYORS

1800 W. OVERLAND ROAD • BOISE, IDAHO 83705 • (208)344-9700

These drawings, or any portion thereof, shall not be used on any Project or extensions of the Project except by written agreement from Briggs Engineering, Inc.

BOUNDARY AND EASEMENT DRAWING
MAYFIELD PROJECT

EXHIBIT

DWG DATE:	DWG NO.	SCALE:
12/16/05 DPM	50828	1" = 500'

SHEET : 1 OF 1

EXH

50828-ROS.DWG

WATER SUPPLY ASSESSMENT FOR THE MAYFIELD SPRINGS PLANNED COMMUNITY

Prepared for

Intermountain Sewer and Water Corporation
P.O. Box 344
Meridian, ID 83660

Prepared by

SPF Water Engineering, LLC
600 East River Park Lane
Boise, ID 83706

REGISTERED PROFESSIONAL GEOLOGIST
CHRISTIAN R. PETRICH
1088
3/20/06
STATE OF IDAHO

PROFESSIONAL ENGINEER
REGISTERED
9011
3/20/06
STATE OF IDAHO
CHRISTIAN R. PETRICH

March 20, 2006

SPF Water Engineering, LLC
water resource consultants

63-32225

MEMORANDUM

TO: Water Right File # 63-32225

FROM: Darla Block

DATE: May 25, 2007

RE: Financial Statement

IDWR did receive the financial statement of Greg B Johnson on March 22, 2006 as part of a Water Supply Assessment from SPF Water Engineering. The financial statement received was reviewed, and is no longer needed for the file since a water right permit has been issued. The financial statement is a confidential document, which is being returned to the owner:

INTERMOUNTAIN SEWER & WATER CORP
C/O GREG B JOHNSON
660 E FRANKLIN RD
MERIDIAN ID 83642

EXECUTIVE SUMMARY

The proposed Mayfield Springs Planned Community (Mayfield Springs) is located about 20 miles southeast of Boise in eastern Ada County. Once constructed, the development will require approximately 1,800 acre-feet of water per year, or an average pumping rate of approximately 1,130 gallons per minute (gpm), for domestic, commercial, and industrial purposes. Five wells will likely extend to depths ranging from about 600 feet to over 800 feet, with static water levels ranging from approximately 300 to 600 feet below ground surface.

SPF Water Engineering, LLC (SPF) conducted an assessment of potential ground water availability to meet the needs of the proposed community. The primary conclusions from this assessment are that there is likely sufficient water available for the proposed uses and that substantial impacts to nearby, existing water rights are unlikely. Specific conclusions include the following:

Aquifer Characteristics

1. Aquifers underlying the Mayfield Springs area are present in layers of unconsolidated sediments and volcanic materials.
2. Primary water-bearing zones are found in coarser-grained sedimentary zones (such as sand and gravel layers) or in fractured basalt or cinder zones.
3. Coarse-grained sediments in the Mayfield Springs area originated in nearby highlands and are consistent with alluvial fan deposits.
4. Clay layers or unfractured basalt may form partial aquitards in the Mayfield Springs area. However, it is unlikely that these aquitards are areally extensive because of varying geologic materials and proximity to basin margins.
5. All of the shallower existing wells (e.g., less than 300 feet deep) are within about one mile of Indian Creek or Indian Creek Reservoir. Some of these wells are likely completed in perched aquifer zones.
6. All of the wells further than about one mile from Indian Creek are at least 400 feet in depth (the deepest well extends 811 feet below ground surface).

Aquifer Recharge and Discharge

7. Recharge to shallow zones occurs through areal infiltration and seepage from surface water bodies (e.g., Indian Creek, tributaries to Indian Creek, and Indian Creek Reservoir).

8. Recharge to deeper zones occurs as downward flow from overlying shallow aquifers and infiltration at geologic contact zones.
9. Total aquifer recharge in an average year likely ranges from approximately 7,000 to 28,000 acre feet.

Depth to Water

10. Static water levels in existing wells range from less than 100 feet to over 600 feet.
11. All wells with static water levels less than 200 feet are located within approximately one mile of Indian Creek or Indian Creek Reservoir. These wells are likely completed in perched aquifer zones.

Existing Well Yields

12. Well yields listed on drillers' reports range from zero to 200 gpm. Some of these yields may have been limited by testing method (airlift) and/or well construction.
13. One well (the Ken Agenbroad Well) was tested at a rate of 550 gpm for 6 hours and 795 gpm for 1 hour. The aquifer transmissivity in this area was estimated to be approximately 7,300 gpd/ft (based on an aggregate screened thickness of 130 feet), indicating moderate aquifer productivity. It is likely that overall aquifer transmissivity is greater based on experience with other alluvial-fan aquifers and because the effective aquifer thickness is greater than that penetrated by the Agenbroad well.
14. All of the wells listing an initial yield greater than 50 gpm are located within approximately one mile of Indian Creek or Indian Creek Reservoir.

Water Levels

15. Water levels in the Mayfield Springs area are generally stable.
16. Ground water flow directions (based on contours drawn from available water-level data) are generally from the northeast to southwest.

Water Quality

17. Water quality data for the area are limited, but available data suggest that ground water quality is good. Arsenic and fluoride concentrations were less than current Maximum Contaminant Levels (MCLs).

New Well Construction

18. Wells for the new development will likely extend to depths ranging from 600 to over 800 feet, with static water levels ranging from approximately 300 to 600 feet below ground surface.
19. Wells should be constructed so as to minimize the potential for downward movement of ground water from perched aquifers to lower zones.

Water Availability

20. There is likely a sufficient amount of water available for the proposed uses. The amount of estimated recharge in this area (7,000 to 28,000 acre feet) is substantially greater than the anticipated amount required for new uses (1,815 acre feet for the proposed planned community) and existing uses (700 acre feet) in the Mayfield Springs area.

21. Currently stable (or slightly increasing) water levels indicate that water is available for additional appropriation.

Potential Impacts to Existing Water Rights

22. Impacts on existing water rights are unlikely because estimated recharge in the Mayfield Springs area substantially exceeds the amount of existing and new water demands.

Potential Impacts to Water Levels in the Mountain Home GWMA

23. It is unlikely that new withdrawals for the Mayfield Springs Community will have a significant impact on water levels or water rights within the Mountain Home Ground Water Management Area (GWMA), for several reasons:

    a. New wells are not being proposed within the Mountain Home GWMA.

    b. Current ground water levels within the GWMA in the Mayfield Springs area are stable (or rising slightly).

    c. The primary recharge source in the Mayfield Springs area is seepage from Indian Creek, tributaries to Indian Creek, and Indian Creek Reservoir, which are outside of the GWMA.

    d. Ground water flow is generally parallel to the northwest boundary of the Mountain Home GWMA – new uses will likely not reduce underflow into the Mountain Home GWMA.

24. The Mountain Home GWMA boundary appears to be based on the drainage divide between the Indian Creek watershed and Sand Hollow, which also is the boundary between administrative basins 61 and 63. Ground water withdrawals in the Mayfield Springs area will not have a hydrologic impact on this administrative GWMA boundary.

Ground Water Monitoring Recommendations

25. Water level monitoring should be conducted in the area prior to and following the construction of new public water system wells. Monitoring should occur on a periodic basis (e.g., quarterly initially, semi-annually thereafter) for an extended period of time (e.g., 5 to 10 years) during and following construction.

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Appendices

Appendix A: Drillers reports for wells within 3 miles of Mayfield Springs
Appendix B: Results of pump test of the Neil Helmick Well
Appendix C: Water levels (hydrographs) for wells near Mayfield Springs
Appendix D: Drillers' reports for additional wells used in determining ground water flow directions
Appendix E: General water quality data
Appendix F: Water rights summary

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1. INTRODUCTION

1.1. Background

The Mayfield Springs Planned Community (Mayfield Springs) is proposed for a location about 20 miles southeast of Boise in eastern Ada County (see Figure 1) near the Boise Stage Stop. The proposed community will include approximately 2,000 homes and commercial and industrial facilities. Five general well sites have been proposed for the Mayfield Springs property (Figure 2).

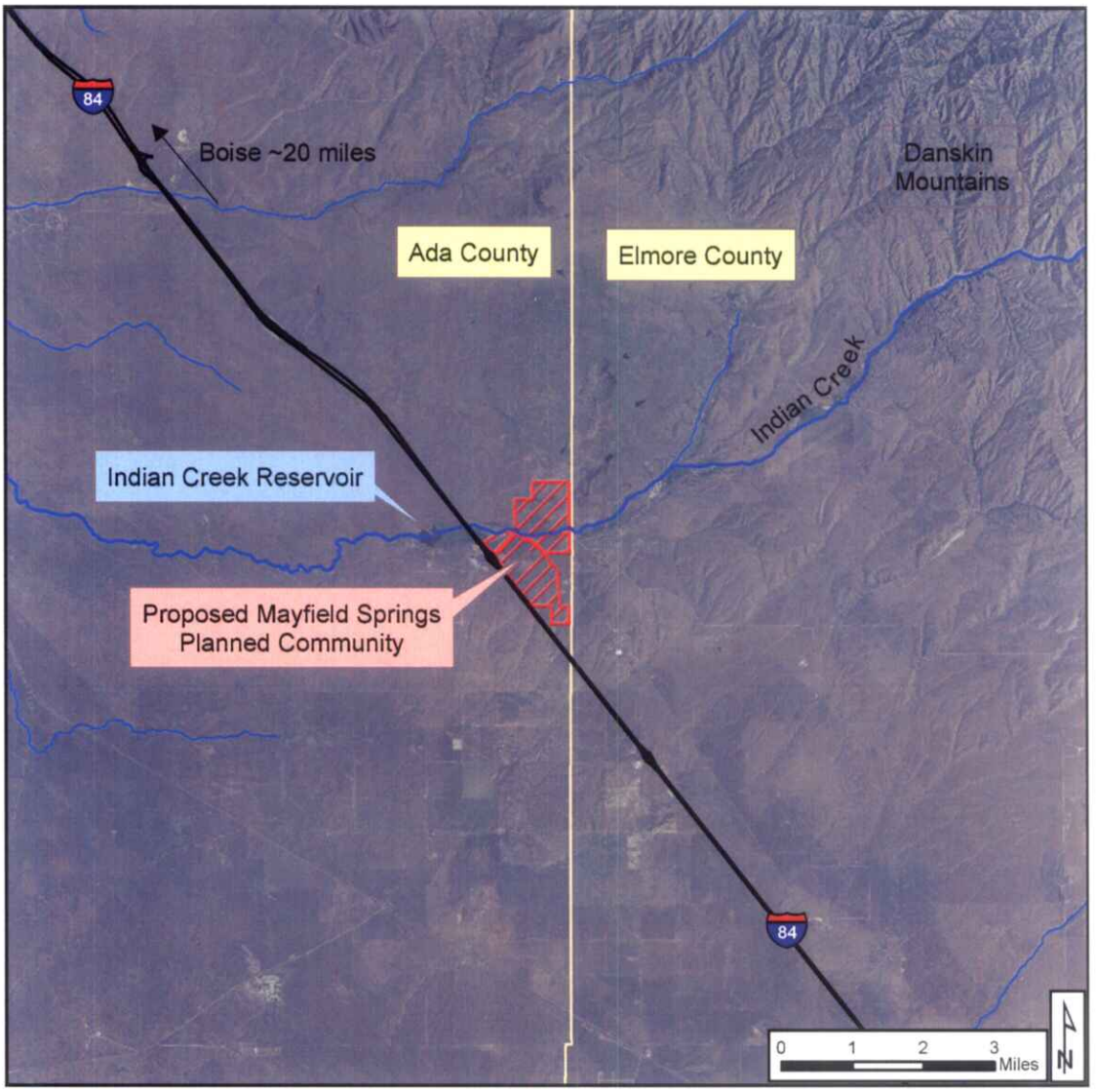


Figure 1. Proposed Mayfield Springs Planned Community location map.

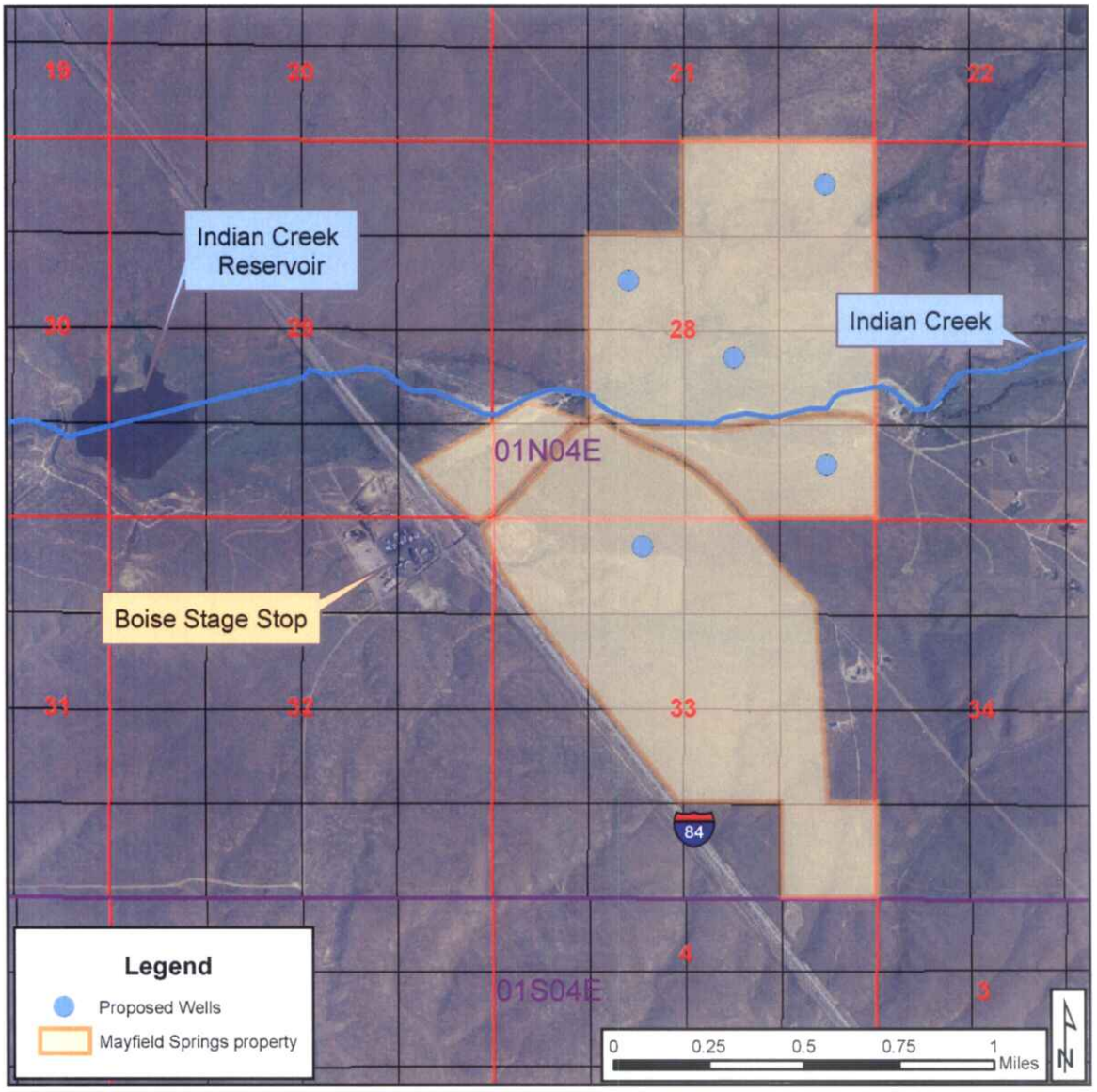


Figure 2. Proposed Mayfield Springs property with general proposed well sites.

The Mayfield Springs area lies in a high desert environment at an elevation of approximately 3,400 feet. Indian Creek, which drains a higher-elevation basin to the northeast of the property, bisects the property upstream of Indian Creek Reservoir. Indian Creek Reservoir is about one mile west of the proposed community.

1.2. Purpose and Objectives

The purpose of this assessment was to evaluate potential water availability in aquifers underlying the Mayfield Springs site. Specific objectives of the assessment included the following:

1. Review local geology based on existing reports and information
2. Obtain and review drillers' reports for local wells
3. Obtain and evaluate available water level data
4. Obtain and review available water quality data
5. Assess water availability based on general aquifer characteristics and estimated aquifer recharge and discharge.
6. Evaluate potential impacts on existing water rights
7. Evaluate potential impacts to water levels in the Mountain Home Ground Water Management Area (GWMA).

1.3. Water Demand

A new ground water-based public water system is proposed for the Mayfield Springs Planned Community. Ground water for the water system will be drawn from up to five wells located within the Mayfield Springs area.

The anticipated peak water demand for this development is 10.0 cfs (Table 1). This amount includes 2.5 cfs for domestic use in 2,000 homes (based on IDEQ requirements of 800 gallons per day per unit), 6.0 cfs for landscape irrigation of 300 acres (0.02 cfs per acre), 0.50 cfs for commercial uses, 0.5 cfs for industrial uses, and 0.5 cfs for miscellaneous uses. Fire protection flows will be provided with storage reservoirs.

The average annual ground water requirement for residential, commercial, industrial, and miscellaneous purposes was estimated to be approximately 1,815 acre feet (Table 1). This estimate includes an average annual demand of approximately 1,460 acre feet for residential domestic and irrigation uses and 350 acre feet for commercial, industrial, and other miscellaneous uses. The residential average-use estimates were based on the following assumptions:

1. Average daily demand of 250 gallons per residential unit for domestic purposes. This estimate is likely high; the Surprise Valley subdivision in southeast Boise uses approximately 225 gallons per residential unit per day for domestic purposes.
2. Approximately 0.15 irrigated acres per home with an application rate of 4.5 feet of water per acre annually.
3. Wastewater is recovered and applied for irrigation. It was assumed that 80 percent of the total domestic consumption will be re-used.

Category	Per residential unit			Total Residential			Commercial, Industrial, and Misc.			Total		
	(cfs)	(gpm)	(afa)	(cfs)	(gpm)	(afa)	(cfs)	(gpm)	(afa)	(cfs)	(gpm)	(afa)
Peak water demand												
Peak rate for residential domestic uses	0.0012	0.56		2.5	1,111					2.5	1111	
Peak demand for residential irrigation	0.0030	1.35		6.0	2,693					6.0	2693	
Peak demand for commercial, industrial, and miscellaneous uses							1.5	673		1.5	673	
Peak water demand				**8.5** cfs	**3,804** gpm		**1.5** cfs	**673** gpm		**10.0** cfs	**4,477** gpm	
Average residential water demand												
Daily demand for domestic uses (annual average)	0.0004	0.17	0.28	0.77	347	560				0.77	347	560
Demand for residential irrigation				1.9	837	1350						
Wastewater re-use for residential irrigation (assume 80% of domestic water)				(0.6)	(278)	(448)						
Net annual residential irrigation demand				1.2	559	902				1.2	559	902
Average daily commercial, industrial, and miscellaneous demand							0.5	224	353	0.5	224	353
Total annual average water demand				**2.0** cfs	**906** gpm	**1,462** afa	**0.5** cfs	**224** gpm	**353** afa	**2.5** cfs	**1,131** gpm	**1,815** afa

Assumptions:

Number of residential units:	2,000	
Peak daily demand for residential domestic uses:	800	gallons
Average daily demand for residential domestic uses:	250	gallons
Average irrigated area per unit:	0.15	acres
Wastewater re-use rate:	80	percent
Total irrigated area:	300	acres
Residential irrigation per season:	4.5	acre-feet/acre

Table 1: Estimated water demand for Mayfield Springs Planned Community.

2. HYDROLOGIC CONDITIONS IN VICINITY OF MAYFIELD SPRINGS

2.1. General Geology

Surficial geology (Figure 3) in the vicinity of Mayfield Springs area consists of Cretaceous-age granitic rocks (primarily granodiorite) associated with the Idaho batholith (Kii), Middle Pleistocene-age basalt (Qpmb), Pleistocene-age unconsolidated alluvium (Qpg), Pleistocene-age alluvium (Qpa), and Quaternary alluvium (Qa) (Bond and Wood, 1978). Sediments in this area appear to be mostly alluvial fan sediments that are interfingered with basalt flows from the Kuna-Mountain Home basalt field (Wood, 1996).

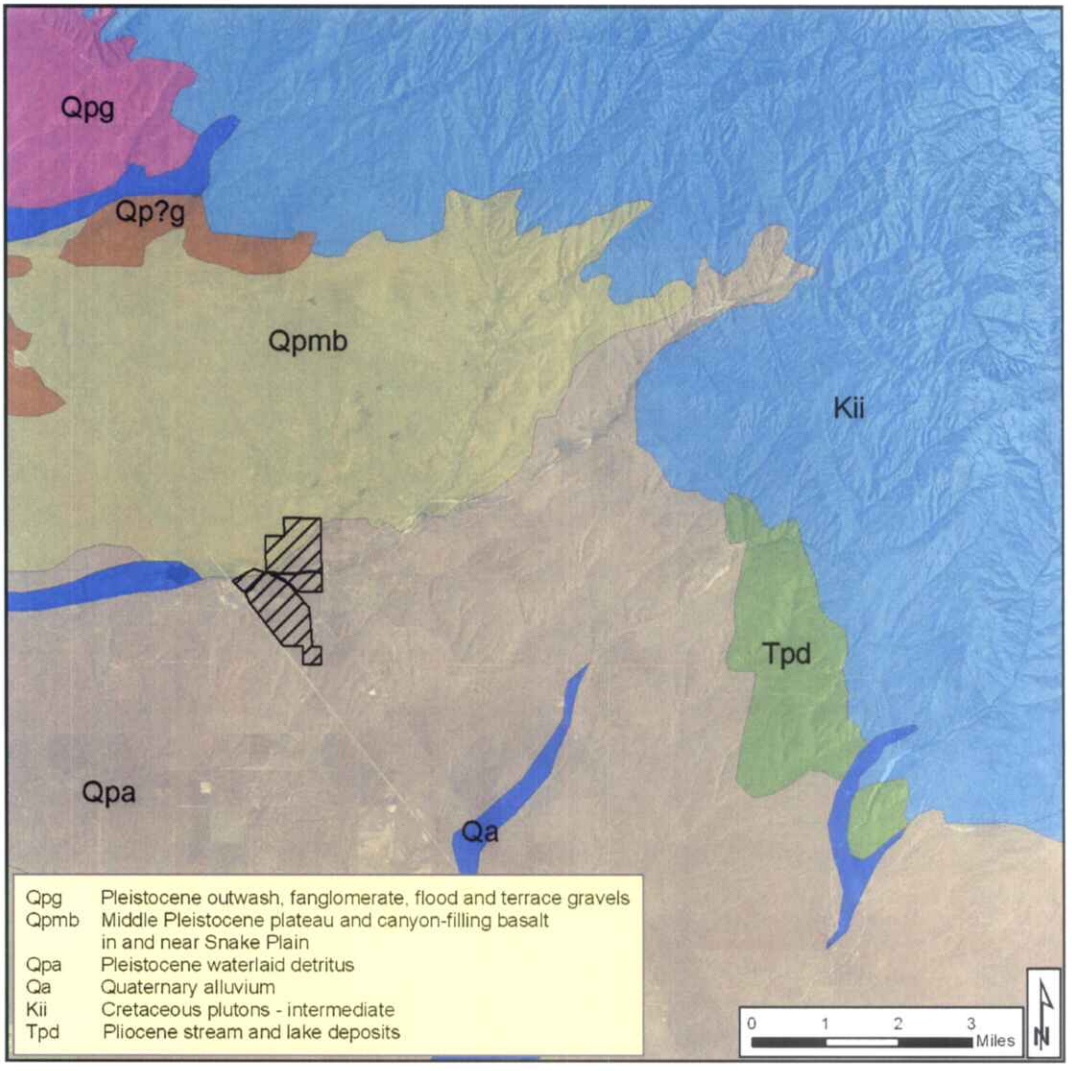


Figure 3: Geology in the vicinity of Mayfield Springs.

Normal faulting has been inferred along the base of the foothills in the Mayfield area (Wood, 1996) based on offsets observed in sedimentary section. Wood notes that the youngest depositional and volcanic units do not appear to be faulted.

2.2. Drillers' Report Review

A search for drillers' reports for the Mayfield Springs area wells was conducted using the Idaho Department of Water Resources' (IDWR) online well construction database. The search area consisted of a 3-mile radius around the Mayfield Springs property.

The IDWR well construction database contained drillers' reports for 37 wells in this area (Figure 4 and Table 2). Copies of drillers' reports for these wells are provided in Appendix A. Of the 37 wells, 27 wells are used for domestic purposes, five are used for irrigation, and two are used for commercial purposes. One driller's report lists an industrial use, one lists a stockwater use, and one well is for cathodic protection.

The depths of these wells range from 66 to 811 feet. Well depths fall into two general categories (Figure 5, page 9): shallow wells with depths ranging from 66 to 260 feet and deeper wells ranging from 390 to 811 feet. Wells located in the vicinity of Indian Creek are generally shallower that those that are located further away.

Wells in the Indian Creek area (wells 2-13 in Figure 4) and wells to the south and southeast of the Mayfield Springs property (wells 22-30 and 32) penetrated brown and blue clay with interbedded sand, silt, and occasional gravel layers. Several drillers' reports note a transition from brown to white and/or blue clay at depths of approximately 460 to 600 feet. Coarse-grained sediments (e.g., sand or gravel), if saturated, were listed as water-producing zones.

Wells 14-17 and 18-21, located west of the Mayfield Springs property, encountered basalt and cinders from as shallow as 45 feet to as deep as about 100 feet. Several of these wells extend through the volcanic materials to clay, sand, or gravel sediments. Water-producing zones were noted in cinder zones within the basalt and/or coarse-grained sediments underlying the volcanics.

Further to the southeast, drillers' reports for wells 31, 33, 34, and 38 encountered basalt and volcanic materials at depths from about 250 to over 675 feet. Water-bearing zones in these wells were noted at various depths in or interbedded with volcanic layers. The driller's report for Well 37 (the southernmost well in Figure 4) recorded only sedimentary materials, with several thin water-bearing zones between 350 and 545 feet.

Two wells located to the southwest of the Mayfield Springs area (wells 35 and 36) encountered basalt and cinders at depths from approximately 75 to 300 feet. No water-producing zones are noted in the 500-foot deep Well 35; several water-producing zones are noted in sand layers between 570 and 695 feet in Well 36.

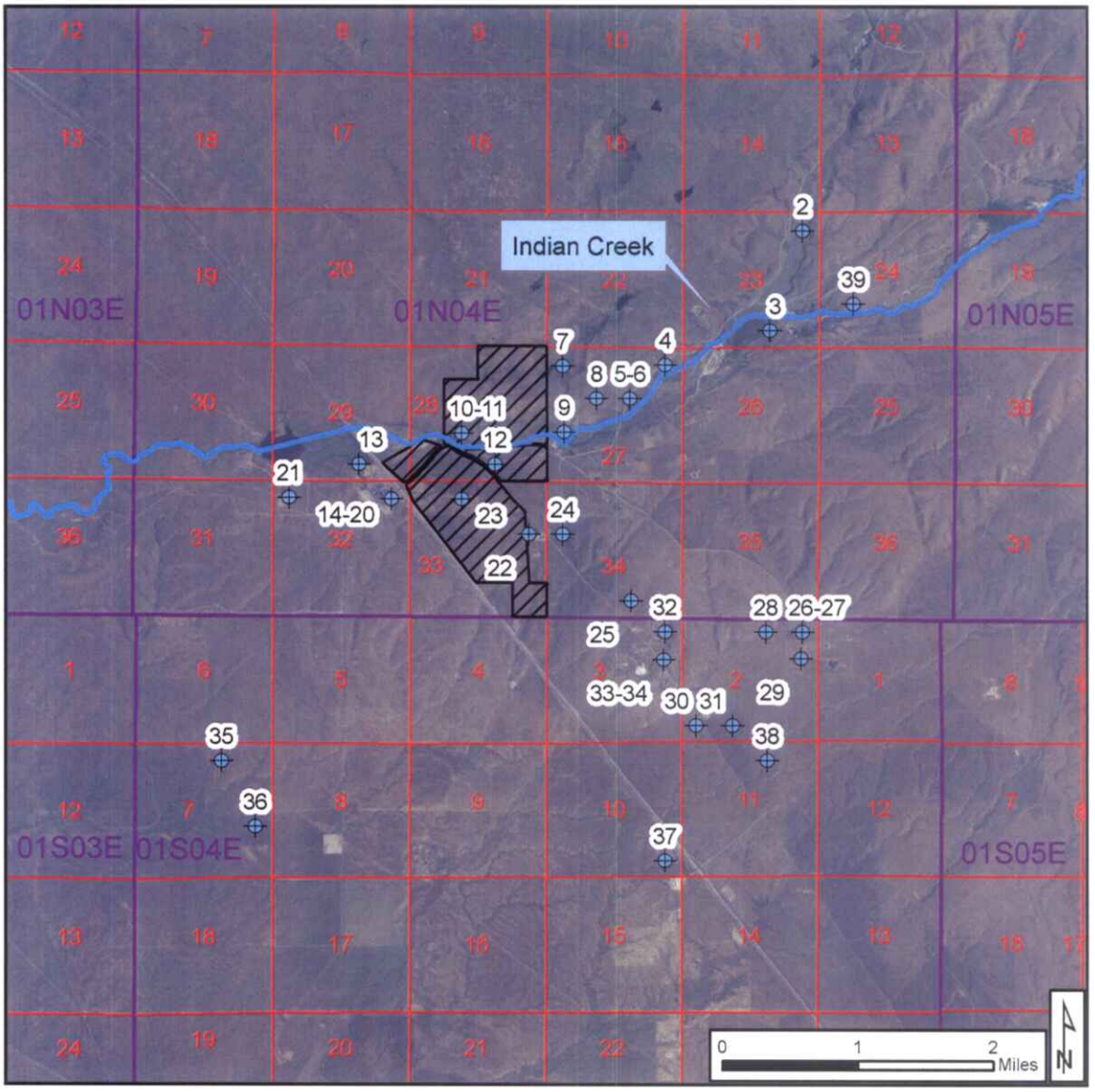


Figure 4. Wells with drillers' reports within 3 miles of Mayfield Springs.

Well 39 (the Owings Well) was drilled to a depth of approximately 1,200 feet in the SW quarter of Section 24. A driller's report is unavailable, but a cuttings log (described by BSU geology student Jim Braendle in 1980) is provided in Appendix A. The inferred normal faulting in this area (Wood, 1996) is based on the depth of sediments observed in the Owings Well, which is within 2 miles of the granite-basin contact. A water temperature of 110°F was noted at the bottom of the Owings well.

Well ID	Contact	Use	TWP	RNG	SEC	Tract	Gallons Per Minute	Static Water Level	Total Depth	Casing Depth	CSG. DIA.	Construction Date	Permit Number	Tag Number
1	Allen, David	Domestic	Incorrect location on driller's report					342	523			1/10/79	783385	
2	Farnsworth, Larry	Domestic	01N	04E	23	NENE	60	69	147	147	6	5/21/04	815531	D0031310
3	Ambrose, Ronald D	Domestic	01N	04E	23	SWSE	40	205	256	255	8	3/13/92	725434	
4	Underwood, Darla, Underwood, James	Domestic	01N	04E	27	NWNENE	8.7	343	568	515	5	5/7/91	724581	
5	Danskin Properties Ltd	Domestic	01N	04E	27	SWNE			480	480	12	10/20/93	726607	
6	Underwood, James	Domestic	01N	04E	27	SWNE	55	15	75	68	8	10/13/93	727552	
7	Underwood, James	Domestic	01N	04E	27	NWNW	60	338	485	459	6	5/17/85	722191	
8	Agenbroad, Carl	Irrigation	01N	04E	27	SENW	200	6	200			10/8/74	831274	
9	Helmick, Neil	Domestic	01N	04E	27	NWSW	20	340	510	404	6	8/7/92	721450	
10	Agenbroad, Ken D	Irrigation	01N	04E	28	NESW		390	763			9/4/79	776260	
11	Agenbroad, Ken D	Irrigation	01N	04E	28	NESW			85			4/28/79	820312	
12	Van Beek, Guy		01N	04E	28	SWSE		160	375			5/17/78	776251	
13	Winje, George	Domestic	01N	04E	29	SWSE			202	46	6	6/10/94	728344	
14	Boise Stage Stop	Domestic	01N	04E	32	NENE	3	115	130	57	8	10/1/96	721744	
15	Boise Stage Stop	Domestic	01N	04E	32	NENE		115	180	56	8	10/2/96	721745	
16	Boise Stage Stop	Domestic	01N	04E	32	NENE	15	80	140	120	8	10/8/96	721748	
17	Boise Stage Stop	Domestic	01N	04E	32	NENE	20	40	66	54	8	5/17/99	721925	D0009418
18	Kings Men	Domestic	01N	04E	32	NENE	20	636	811	810	6	5/7/82	721990	
19	Boise Stage Stop	Industrial	01N	04E	32	NENE	20	58	130	130	6	5/31/02	776954	D0019974
20	Boise Stage Stop	Domestic	01N	04E	32	NENE	20	34	92			11/14/86	818250	
21	Bravo, Robert	Domestic	01N	04E	32	NWNW	2	24	160	160	6	11/10/01	770361	D0020068
22	Anderson, Tim	Domestic	01N	04E	33	SENE	20	528	665	660	6	11/9/00	767235	D0015796
23	Phagan, Jim	Domestic	01N	04E	33	NENW	17	481	569	560	6	11/17/01	772052	D0019379
24	Stewart, Blackie	Irrigation	01N	04E	34	SWNW	80	89	260			5/10/76	817181	
25	Miller, Ronald L, Pamela K	Domestic	01N	04E	34	SWSE		450	620	596	5	9/23/99	721957	D0012097
26	Botts, Mary	Domestic	01S	04E	2	NENE	20	310	540	158	8	6/2/99	721929	D0009421
27	Meeks, Dale	Domestic	01S	04E	2	NENE	30	331	434	428	6	11/1/02	788349	D0025803
28	Cornell, Rich	Domestic	01S	04E	2	NWNE	20	300	390	383	6	11/28/02	789257	D0025928
29	Buchanan, Jack	Domestic	01S	04E	2	SENE	50	331	476	469	6	5/5/03	799883	D0029374
30	Jorgensen, Glen, Jorgensen, Janet	Domestic	01S	04E	2	SWSW	20	388	633	608	6	11/17/00	767572	D0015631
31	Big View Builders	Domestic	01S	04E	2	SESW	15	365	504	491	6	2/15/04	810178	D0030779
32	Morton, Jerry	Domestic	01S	04E	3	NENE	25	460	586	584	6	11/11/89	721253	
33	Castle, Rosanna K, Castle, Ronald B	Commercial	01S	04E	3	SENE	30	338	535	490	8	7/28/93	721499	
34	Castle, Ronald B, Castle, Rosanna K	Commercial	01S	04E	3	SENE	40	435	678	550	6	4/25/96	721699	
35	William Pipeline West	Cathodic Protection	01S	04E	7	NWNE			500	500	10	1/23/03	789255	D0025927
36	Weimer, Johnny	Stockwater	01S	04E	7	NESE	25	540	695			6/8/73	792733	
37	Hisel, Jim	Domestic	01S	04E	10	SESE	10	350	545	541	6	9/23/98	721877	D0007514
38	Dienes, Ed	Domestic	01S	04E	11	NWNE	27	440	543			6/27/79	781273	

Table 2. Wells with drillers' reports within 3 miles of Mayfield Springs.

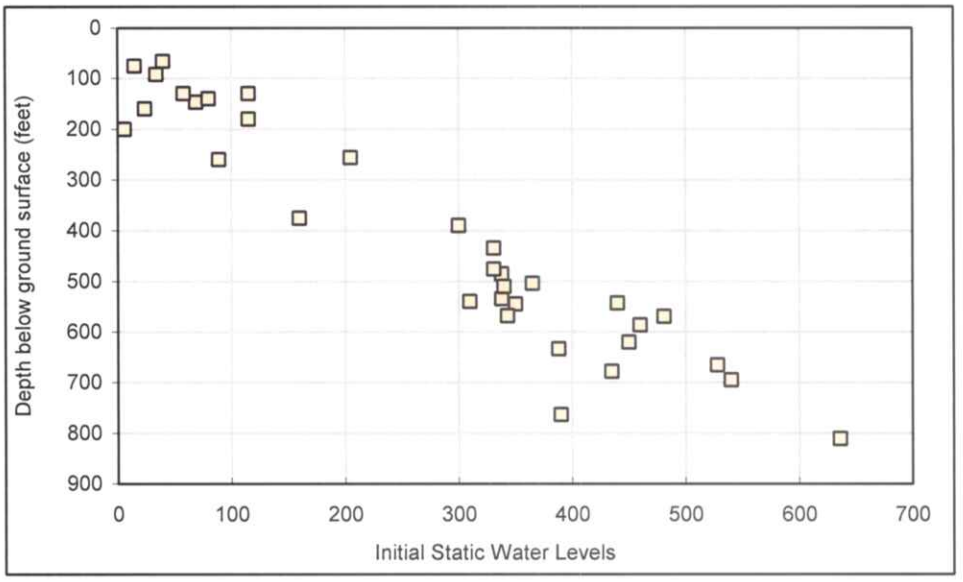


Figure 5: Static water levels recorded on drillers' reports for wells in the Mayfield Springs area.

Most of the shallower existing wells (e.g., less than 300 feet) are within about one mile of Indian Creek or Indian Creek Reservoir. All of the wells further than about one mile from Indian Creek are at least 400 feet in depth (the deepest well extends 811 feet below ground surface).

Initial static water levels recorded on the drillers' reports range from 6 to 636 feet below ground surface. For obvious reasons, static water levels generally correspond with well depth (Figure 5). All wells with static water levels less than 200 feet are located within approximately one mile of Indian Creek or Indian Creek Reservoir.

According to IDWR records, there are currently four wells located on the Mayfield Springs property (wells 10, 11, 12, and 23). These wells have depths ranging from 85 to 763 feet. Static water levels range from 160 to 481 feet below ground surface. Only one of these wells was tested at the time of completion (Well 23, which is 569 feet deep), and this well produced 17 gpm. The 763-foot Helmick Well (well 10 on Figure 4) was subsequently tested at higher rates (see Section 2.4).

Perched water was encountered to the west of Mayfield Springs at shallow depths (30 to 65 feet) in gravel or volcanics (e.g., cinder zones). To the northeast of Mayfield Springs along the Danskin Mountain foothills, water was encountered at depths ranging from 18 to 475 feet in clay and sand or sand and gravel. Indian Creek appears to have a strong influence on the presence of ground water in the vicinity of the creek. Southeast of the proposed development, water-bearing zones were encountered at depths ranging between 118 and 619 feet in sand and gravel, clay and sand, or occasionally cinders.

2.3. Reported Well Yields

Well yields recorded on the drillers' reports, which generally are based on short duration airlift pumping, ranged from 2 to 200 gallons per minute (gpm), although most wells produced less then 50 gpm. Four of the 6 wells rated at more than 50 gpm were less than 260 feet deep; the remaining two wells producing 50 gpm or more were less than 500 feet deep. The production rate in some of the deeper wells may have been limited by the pumping method (airlift). All of the wells listing an initial yield greater than 50 feet are located within approximately one mile of Indian Creek or Indian Creek Reservoir.

2.4. Well Test

A 7-hour well test was conducted in the 763-foot deep Neil Helmick Well on May 20, 1999 (this well is listed as the Ken Agenbroad Well in the driller's report and is shown as well 10 on Figure 4). The results of this well test are included as Appendix B. The well was pumped at 550 gpm for 6 hours, resulting in 73 feet of drawdown. An additional hour of pumping at 795 gpm resulted in a total drawdown of 92 feet. The well test data yielded an aquifer transmissivity estimate of approximately 7,300 gpd/ft, indicating moderate aquifer productivity. The conclusion from this well test was that wells of moderate productivity (400 to 800 gpm) could likely be developed in this area.

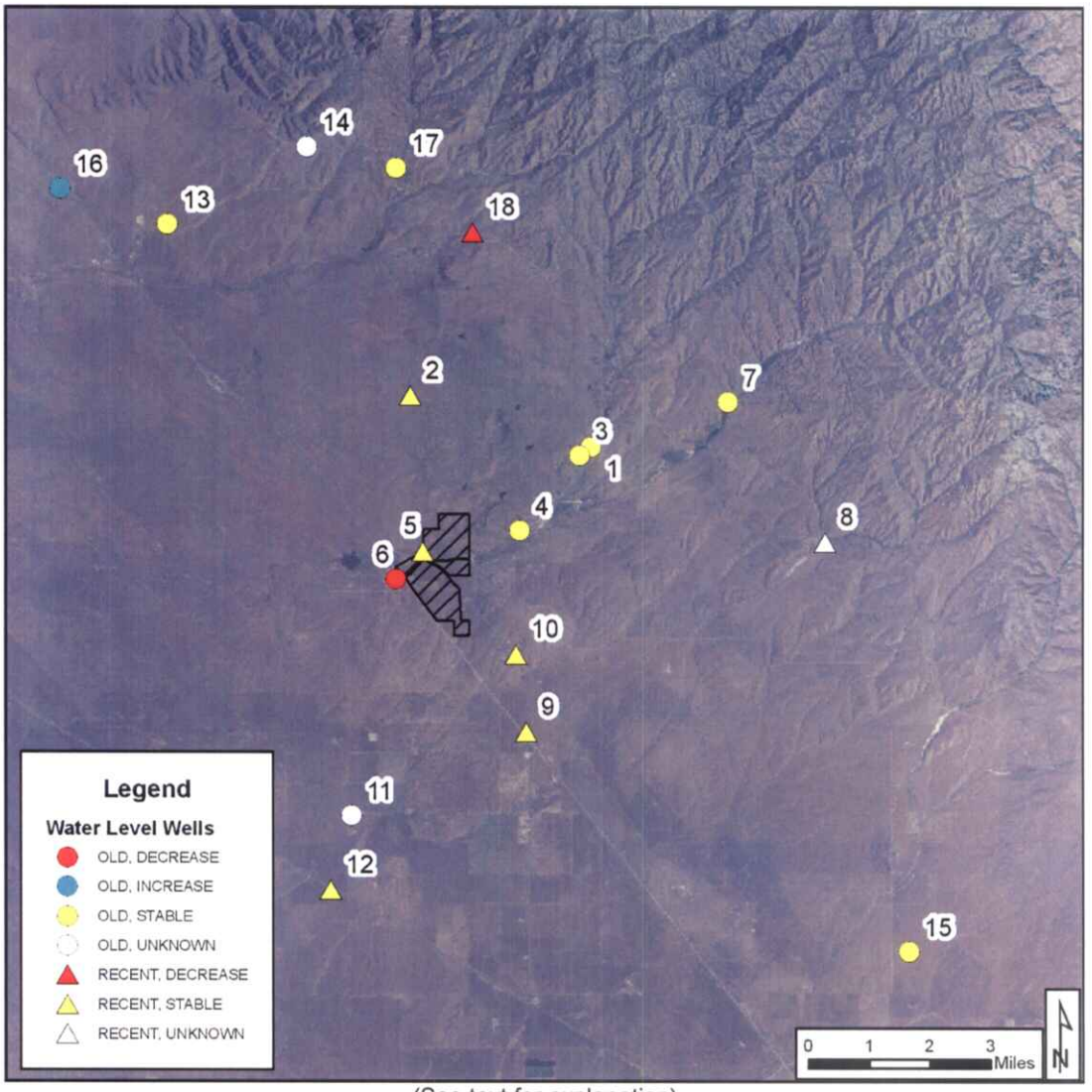
2.5. Water Levels

The IDWR "Well_Log" database has water level data for 18 wells within 10 miles of Mayfield Springs. One of these wells is located on the Mayfield Springs property. Hydrographs for the 18 wells are provided in Appendix C.

Figure 6 provides a summary of local water level trends. Wells that include water level data collected in the last 5 years are labeled as "recent" and are indicated with a "Δ" in Figure 6. Wells for which all water level data are at least 5 years old are labeled as "old" and are indicated with a "O" in Figure 6. Water level trends were characterized (Figure 6) as increasing, decreasing, stable, or "unknown" (in which there were too few data points to describe a water level trend). Water levels were defined as increasing if measurements increased by at least 10 feet during the last 10 years of the sampling record (based on at least three measurements). Water levels are defined as decreasing if at least three measurements resulted in a decrease of at least 10 feet. Water levels were defined as stable if water level changes during the last 10 years of the sampling record were less than 10 feet.

With these criteria, seven wells with older measurement data had stable water levels, one well experienced decreasing water levels, one well had increasing water levels, and one well was classified as unknown (i.e., there were insufficient water level data to determine a water level trend). Of the recently monitored wells, five had stable water levels, one well experienced decreasing water levels, and one well had insufficient data for determining a trend. In total, 12 of the 17 wells had stable water levels, two wells had

decreasing water levels, one well had increasing water levels, and three of the hydrographs could not be classified.



(See text for explanation)

Figure 6. Wells with water level measurements near Mayfield Springs.

Based on these observations, there have been no widespread ground water level declines Mayfield Springs area over the last 30 years. In most of these wells, water levels have remained steady over the data period, with some short-interval variations associated with seasonal ground water usage. At two of the wells with the longest sampling record (wells 9 and 12 on Figure 6), water levels have increased over time, but that increase has been less than 10 feet. There are two wells (wells 6 and 18) where water levels declined by more than 10 feet, but these local declines do not appear to be representative of general ground water conditions in the area.

2.6. Ground Water Flow Direction

Because of the paucity of wells in this area, ground water contours (Figure 7) in the Mayfield Springs area were drawn using water levels from two sources: (1) selected data from recently-measured IDWR monitoring wells and (2) initial static water levels listed on drillers' reports. Measurement points used for contours are highlighted in the Appendix C hydrographs. Wells for which static water levels from drillers' reports were used are indicated in Figure 7; drillers' reports for these wells are provided in Appendix D. Ground surface elevations are taken at the centroid of the quarter-quarter in which the well is located (unless more precise location data were available). Potential errors in these contours may include incorrect well locations, incorrect ground surface elevations, and/or incorrect measurements.

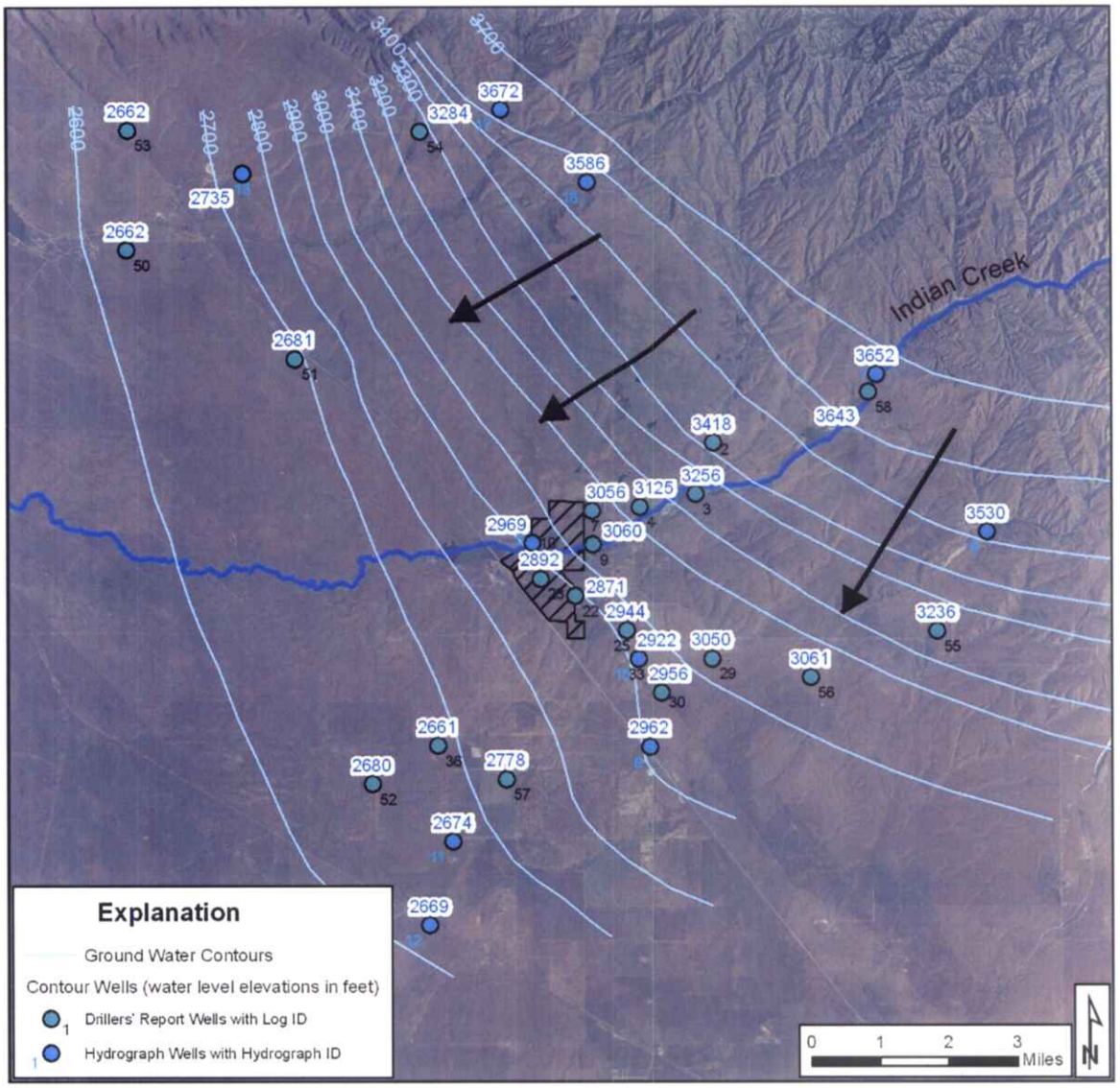


Figure 7. Ground water flow directions in Mayfield Springs area.

In general, ground water flows from high elevation to lower elevation (northeast to southwest). This general ground water flow direction is consistent with conclusions based on USGS measurements in 1980 (Newton, 1991).

2.7. Recharge and Discharge

Recharge to aquifers in the Mayfield Springs area occurs as (1) seepage from surface channels (primarily Indian Creek, tributaries to Indian Creek, and Indian Creek Reservoir), (2) infiltration from precipitation in the immediate Mayfield Springs area, and (3) underflow from the Danskin Mountains northeast of the site. Seepage from surface channels recharges shallow aquifers; shallow aquifers leak to lower, deeper aquifers. Underflow from northeast of the Mayfield Springs area originates as infiltration in highland areas; surface runoff from these highlands is the primary source of water for Indian Creek.

There is very little (if any) natural ground water discharge to Indian Creek in the Mayfield Springs area because regional aquifer water levels (especially in deeper zones) are far below the creek elevation. The ultimate discharge point for aquifers in the Mayfield Springs area is the Snake River. The primary local aquifer discharge is to existing wells in this area.

2.8. Water Quality

There are seven wells within five miles of Mayfield Springs that have been monitored for water quality since 1991 (Figure 8). Sampling results for selected analytes are included in Appendix E. Other than the presence of coliform bacteria in isolated wells (which generally indicates site-specific contamination and is not indicative of regional ground water quality) water quality from these monitoring wells appears to be very good.

The average concentration of arsenic at these monitoring wells was generally around 2 µg/l, below the Maximum Concentration Limit (MCL) of 10 µg/l. One water sample taken from station 01N 04E 23DDC1 in 1991 had an arsenic concentration of 9.0 µg/l, very close to the MCL. The maximum fluoride concentration in these wells was less than 1.0 mg/l (the MCL for fluoride is 4.0 mg/l). The maximum concentration of nitrate at these stations was 4.6 mg/l, below the MCL of 10.0 mg/l. The maximum gross alpha concentration was less than 3.0 pCi/l, well below the MCL of 15.0 pCi/l. The secondary standards for iron, manganese, and total dissolved solids were not exceeded at any of these wells.

Total dissolved solids concentrations (TDS) were available for four wells, with values ranging from 134 to 182 mg/L. In the lower Boise River Basin TDS values less than about 200 mg/L are typically associated with infiltration from drainages in granitic areas (Petrich and Urban, 2004); ground water with low TDS values has generally experienced little chemical interaction with aquifer minerals.

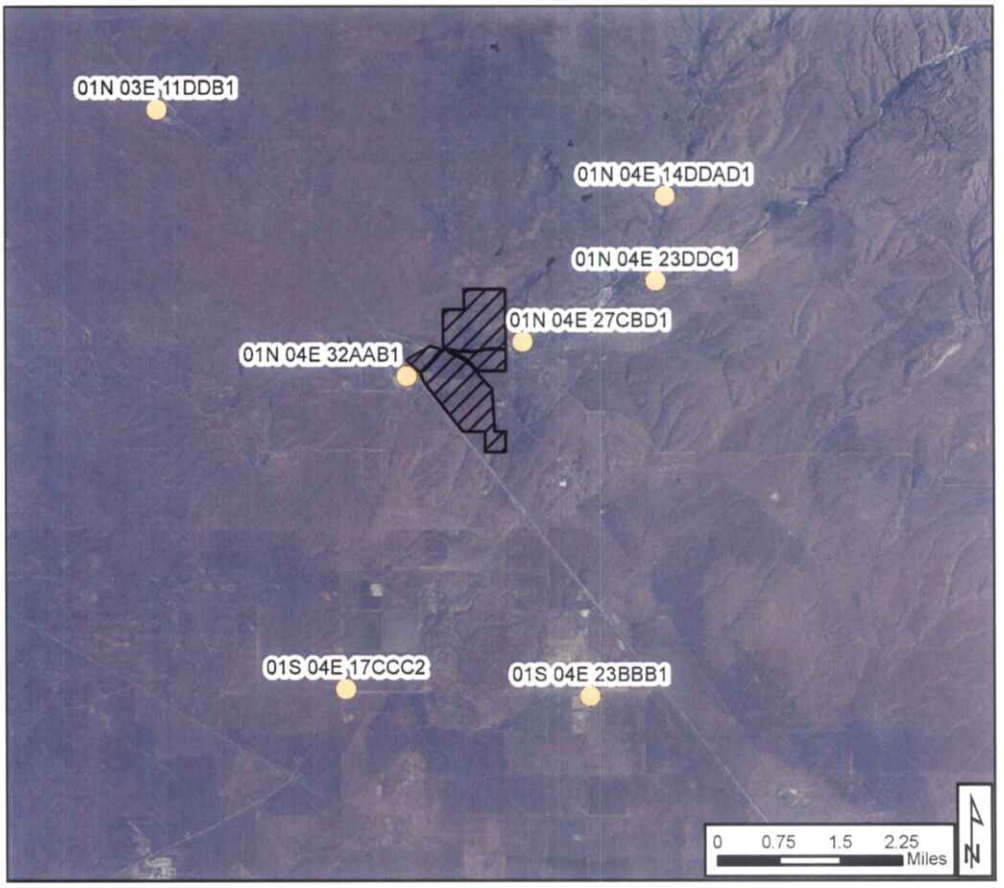


Figure 8. Wells with water quality data near Mayfield Springs.

Water from the Neil Helmick Well (i.e., Ken Agenbroad Well or well 10 on Figure 4) was analyzed in 1999. Results are presented in Appendix B. Water quality in samples from this well was excellent, with no parameters exceeding primary or secondary water quality standards.

2.9. Mountain Home Ground Water Management Area

The Mayfield Springs property is located at the northwestern edge of the Mountain Home GWMA. The Mountain Home GWMA was designated on November 9, 1982 because of declining ground water levels. A GWMA is designated by the IDWR when a ground water basin may be approaching the point of having insufficient ground water supplies for existing users. New ground water applications may be approved by the Director only after it is determined that sufficient ground water supply is available and the new appropriation will not negatively impact other senior water rights.

The Mayfield Springs area is also located about 5 miles northwest of the Cinder Cone Butte Critical Ground Water Area (CGWA). The Cinder Cone Butte CGWA was designated on May 7, 1981 because of declining ground water levels (Harrington and Bendixsen, 1999). A CGWA is designated by the IDWR when evidence suggests

insufficient ground water supplies for users at current or projected rates of withdrawal. The IDWR Director can deny new ground water applications if the proposed point of diversion lies within a CGWA.

Ground water level contours (Section 2.6) indicate a ground water flow direction that is roughly parallel to the Ground Water Management Area Boundary. Four of the 5 wells within the Mountain Home GWMA near the Mayfield Springs property have either stable or rising ground water levels (Appendix C). There are too few data points for a meaningful hydrograph in the fifth well (Well # 11).

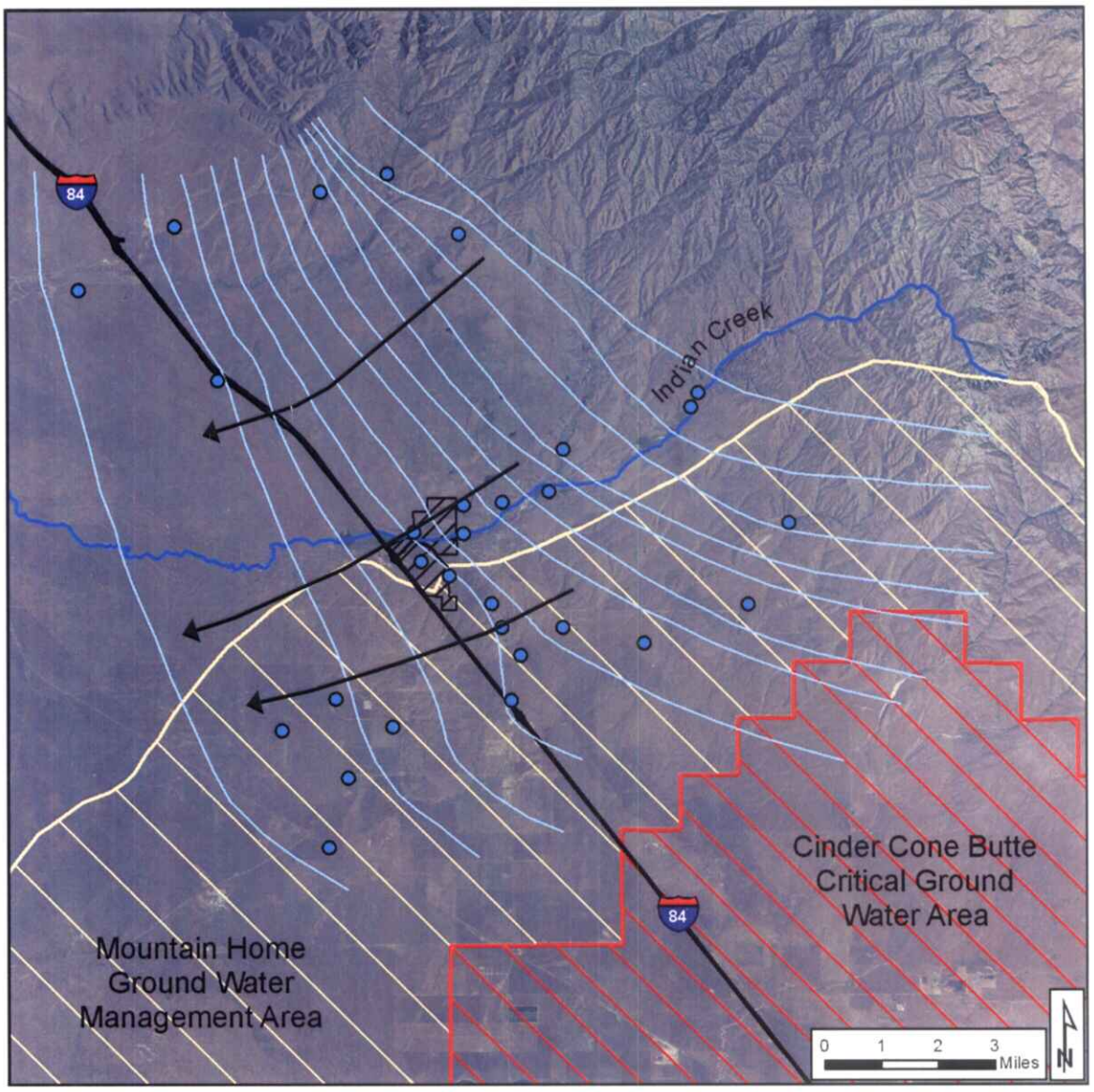


Figure 9: Mountain Home Ground Water Management Area boundary (with ground water contours and general ground water flow directions – see also Figure 7).

3. WATER RIGHTS

A preliminary water rights search was conducted in the vicinity of the Mayfield Springs property. The purpose of the search was to identify ground water rights with points of diversion in the immediate vicinity of proposed Mayfield Springs wells. Water rights were identified based on a (1) map search using IDWR spatial data (current as of February 28, 2006) and (2) text-based search using the IDWR online water rights database.

A summary of water rights with points of diversion within or near 0.5 miles of the proposed Mayfield Springs wells is provided in Table 3. Points of diversion for Snake River Basin Adjudication (SRBA) claims within or near 0.5 miles of proposed new wells are shown in Figure 10 (page 18). Not all existing rights were claimed in the SRBA; water rights based on statutory claims, decrees, and/or licenses having points of diversion within or near 0.5 miles of the proposed Mayfield Springs wells are shown in Figure 11. A list of Snake River Basin Adjudication (SRBA) claims, active permits, SRBA recommendations, and statutory claims, decrees, and/or licenses in the vicinity of the Mayfield Springs development is provided in Appendix F. Of these, water rights 63-8051 and 63-3070 have places of use within the Mayfield Springs community.

One of these rights (61-2328 in Figure 11, page 19) appears to have the incorrect point of diversion location listed in the IDWR database. The Elmore County location and the basin number (61) do not correspond with the point of diversion location (NESE of Section 21 in T1N R4E). This right is likely not within 0.5 miles of proposed Mayfield Springs pumping wells.

Location	No.	Basis	Priority Date	Div. Rate (cfs)	Source List	Water Uses	Owner
Applications							
T1N R4E 28, 29, 32NE, 33	63-32225		9/16/2005	10	GROUND WATER	MUNICIPAL	INTERMOUNTAIN SEWER & WATER CORP (Current)
SRBA Claims							
T1N R4E 28	63-3070	License	12/13/1955	0.02	GROUND WATER	DOMESTIC, IRRIGATION, STOCKWATER	AGENBROAD, CARL S (Current); AGENBROAD, JUDITH A (Current)
T1N R4E 29, 32NE	63-7571	License	3/21/1972	0.09	GROUND WATER	COMMERCIAL	FRENCH, ROBERT L (Current)
T1N R4E 27SW, 28	63-8051	License	10/17/1974	2.44	GROUND WATER	IRRIGATION	GABLE A RANCH (Current)
T1N R4E 27SW	63-21088	Beneficial Use	1/1/1949	0.14	GROUND WATER	DOMESTIC, IRRIGATION, STOCKWATER	AGENBROAD, CARL S (Current); AGENBROAD, JUDITH A (Current)
SRBA Recommendations							
T1N R4E 29, 32NE	63-7571	License	3/21/1972	0.09	GROUND WATER	COMMERCIAL	FRENCH, ROBERT L (Current)
T1N R4E 27SW, 28	63-8051	License	10/17/1974	2.44	GROUND WATER	IRRIGATION	GABLE A RANCH (Current)
Statutory Claims, Decrees, and/or Licenses							
T1N R4E 21SE	61-2328	License	9/22/1958		UNNAMED STREAM	STOCKWATER STORAGE	UNITED STATES OF AMERICA ACTING THROUGH (Current)
T1N R4E 34NW	61-10432	Decreed	5/20/1977	0.04	GROUND WATER	DOMESTIC	ARNOLD, MAMIE L (Current)
T1N R4E 34NW	61-10433	Decreed	10/10/1985	0.04	GROUND WATER	DOMESTIC	WALKER, LELA S (Current)
T1N R4E 34NWNE	61-10525	Decreed	4/29/1980	0.06	GROUND WATER	DOMESTIC, STOCKWATER	BRUBAKER, CARL (Current); BRUBAKER, NANNETTE W (Current)
T1N R4E 28	63-3070	License	12/13/1955	0.02	GROUND WATER	DOMESTIC, IRRIGATION, STOCKWATER	HANSEN, JESS T (Current)
T1N R4E 21SE	63-3662	Decreed	5/5/1953		SHEEP CREEK	STOCKWATER FROM STORAGE, STOCKWATER STORAGE	UNITED STATES OF AMERICA ACTING THROUGH (Current)
T1N R4E 32NE	63-7571	License	3/21/1972	0.09	GROUND WATER	COMMERCIAL	PECON SHOPPE OF BOISE (Current); STUCKEYS (Current)
T1N R4E 27SW, 28	63-8051	License	10/17/1974	2.44	GROUND WATER	IRRIGATION	GABLE A RANCH (Current)
T1N R4E 29, 32NE	63-10372	License	7/28/1986	0.2	GROUND WATER	COMMERCIAL, DOMESTIC, FIRE PROTECTION, IRRIGATION	FRENCH, ROBERT L (Current)
T1N R4E 34NWNE	61-10110	Decreed	4/29/1980	0.06	GROUND WATER	DOMESTIC, STOCKWATER	MILLER, PAMELA K (Current); MILLER, RONALD L (Current)

Table 3: Water rights within 0.5 miles of proposed pumping wells.

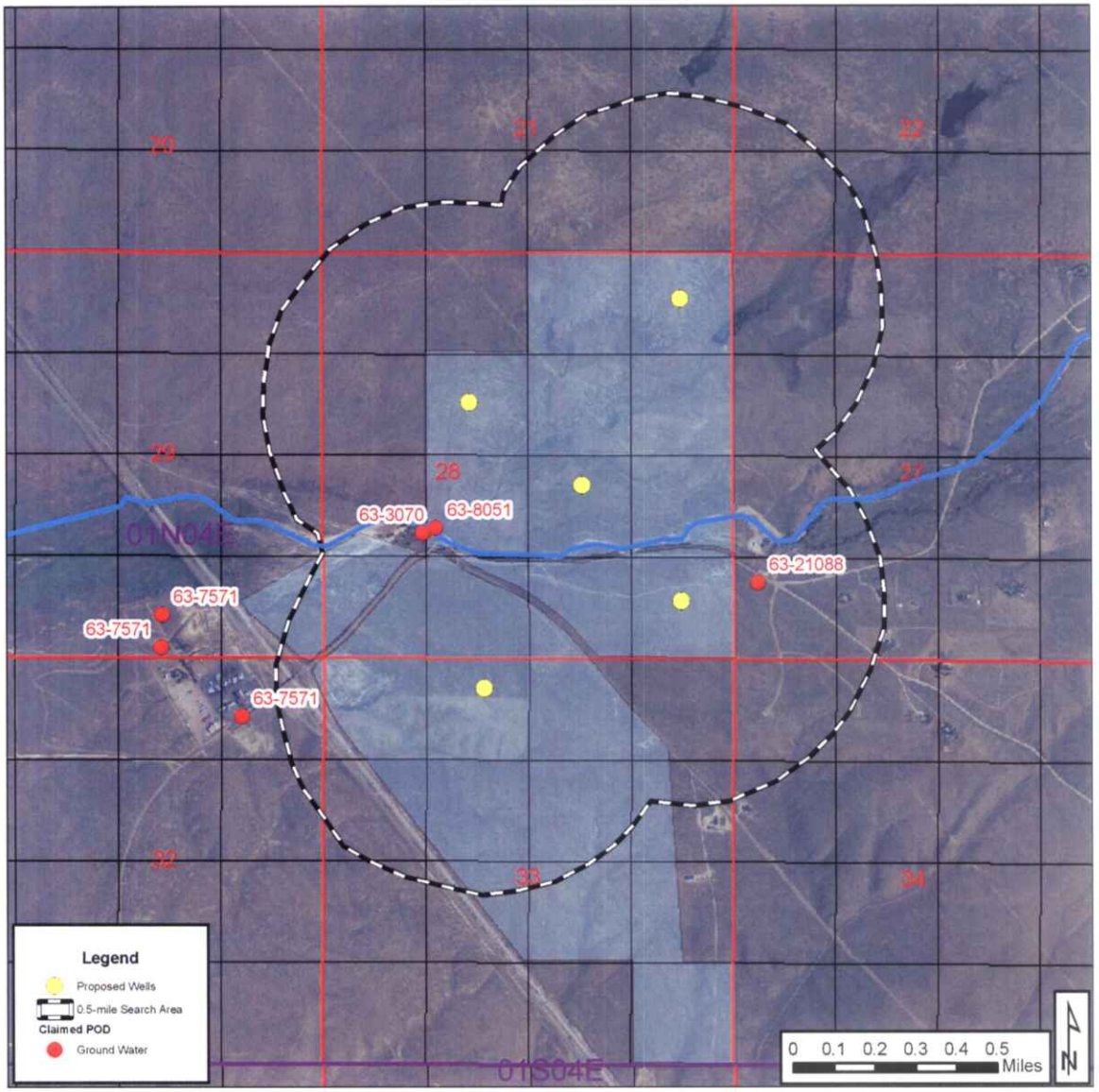


Figure 10: SRBA claims in the Mayfield Springs area.

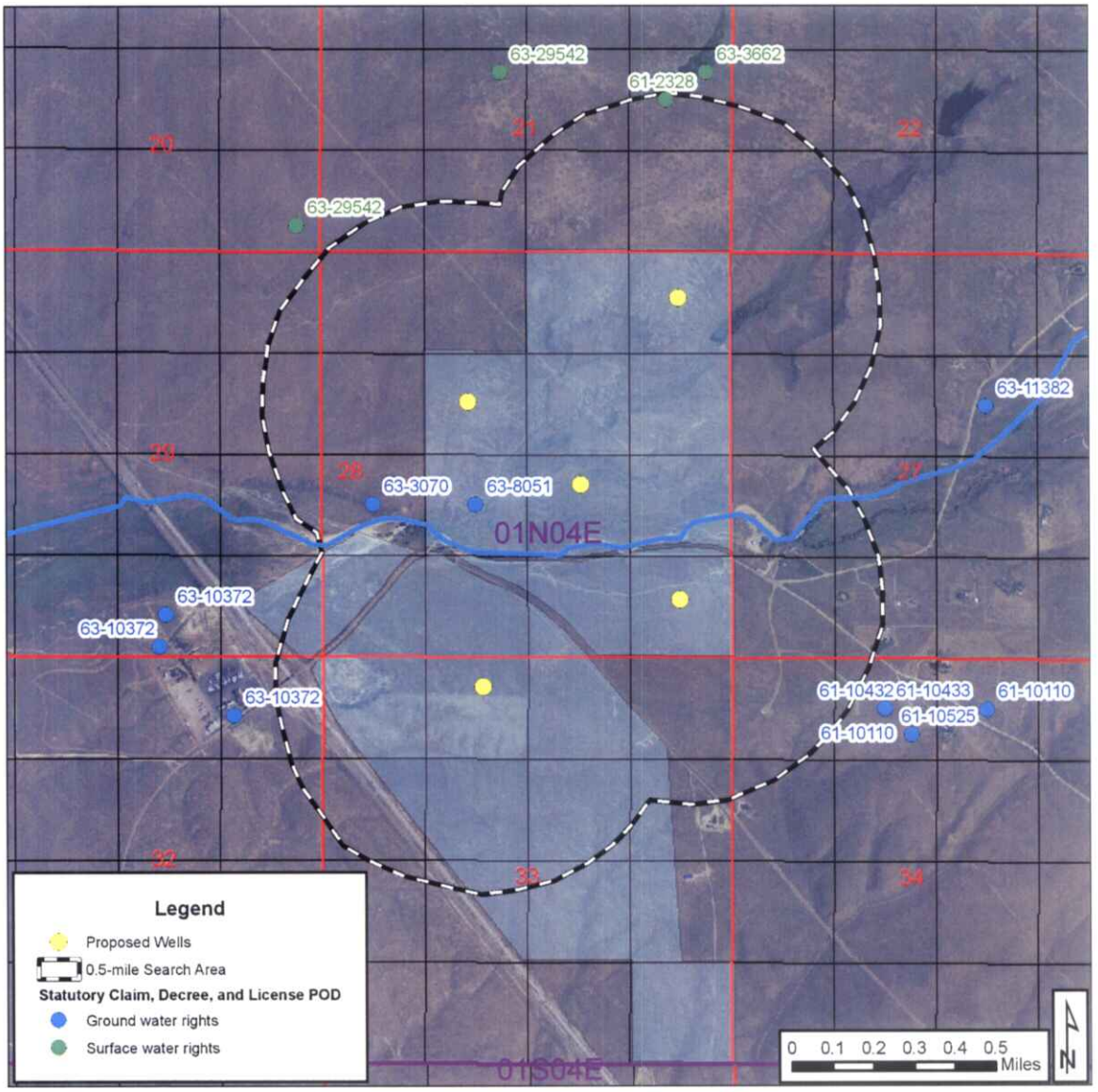


Figure 11: Water rights (based on statutory claims, licenses, and/or decrees) with points of diversion within 0.5 miles of the proposed Mayfield Springs wells.

4. WATER SUPPLY ASSESSMENT

4.1. Water Budget

A general basin water budget was prepared to estimate recharge rates to aquifers in the Mayfield Springs area. Surface water budget components included precipitation and losses to areal infiltration, surface water runoff, evapotranspiration, and seepage from surface channels. Aquifer recharge components included areal infiltration and stream seepage. Aquifer discharge was estimated based on assumed well withdrawals. These water budget components are described in the following sections and summarized in Section 4.1.5.

4.1.1. Contributing Basin

The upper Indian Creek watershed area, which defines surface-water flow in and upgradient of the Mayfield Springs property, is shown in Figure 12. However, this surface water drainage does not necessarily define subsurface flow divides. Aquifers in the Mayfield Springs area extend beyond, and can be influenced by, recharge and discharge from areas beyond the upper Indian Creek watershed area. For this analysis it was assumed that the contributing basin for aquifers in the Mayfield Springs area, and the area of well withdrawals near the Mayfield Springs property, is the (1) area within approximately 3 miles of the Mayfield Springs property and (2) basins upgradient to this 3-mile area (Figure 12). Surface and ground water tributary to this radial area originates primarily from the upper Indian Creek watershed. This assumed water budget area covers approximately 49,000 acres.

4.1.2. Precipitation

Average annual precipitation estimates, based on data obtained from the IDWR, range from approximately 12 to 14 inches per year in lower elevations of the water budget area. The highest elevations receive 24 to 28 inches of precipitation in an average year (see Figure 13, page 22). The average precipitation volume over the water budget area is approximately 72,165 acre feet. This estimate is based on an average of 13 inches per year over 9,709 acres, 15 inches per year over 11,377 acres, 17 inches per year over 7,505 acres, 19 inches per year over 5,459 acres, 22 inches per year over 14,816 acres, and 26 inches per year over 456 acres.

4.1.3. Aquifer Inflows

4.1.3.1. Areal Infiltration

Only a small portion of precipitation infiltrates through the soil; the remainder is lost to evaporation, transpiration by plants, or is collected as surface runoff. Estimates of areal infiltration rates might range from about 2 to 8 percent. An average infiltration rate of 5

percent of precipitation was assumed for this analysis. Factors supporting this assumption include (1) abundant sandy areas and/or fractured basalt in low-lying areas, (2) the presence of decomposed granitic soils, granitic fractures, and alluvial sediments in upland areas, and (3) higher rates of precipitation during months of lowest evapotranspiration (i.e., winter). The estimated average areal infiltration, based on the assumption that 5 percent of precipitation becomes deep infiltration, is about 3,600 acre feet.

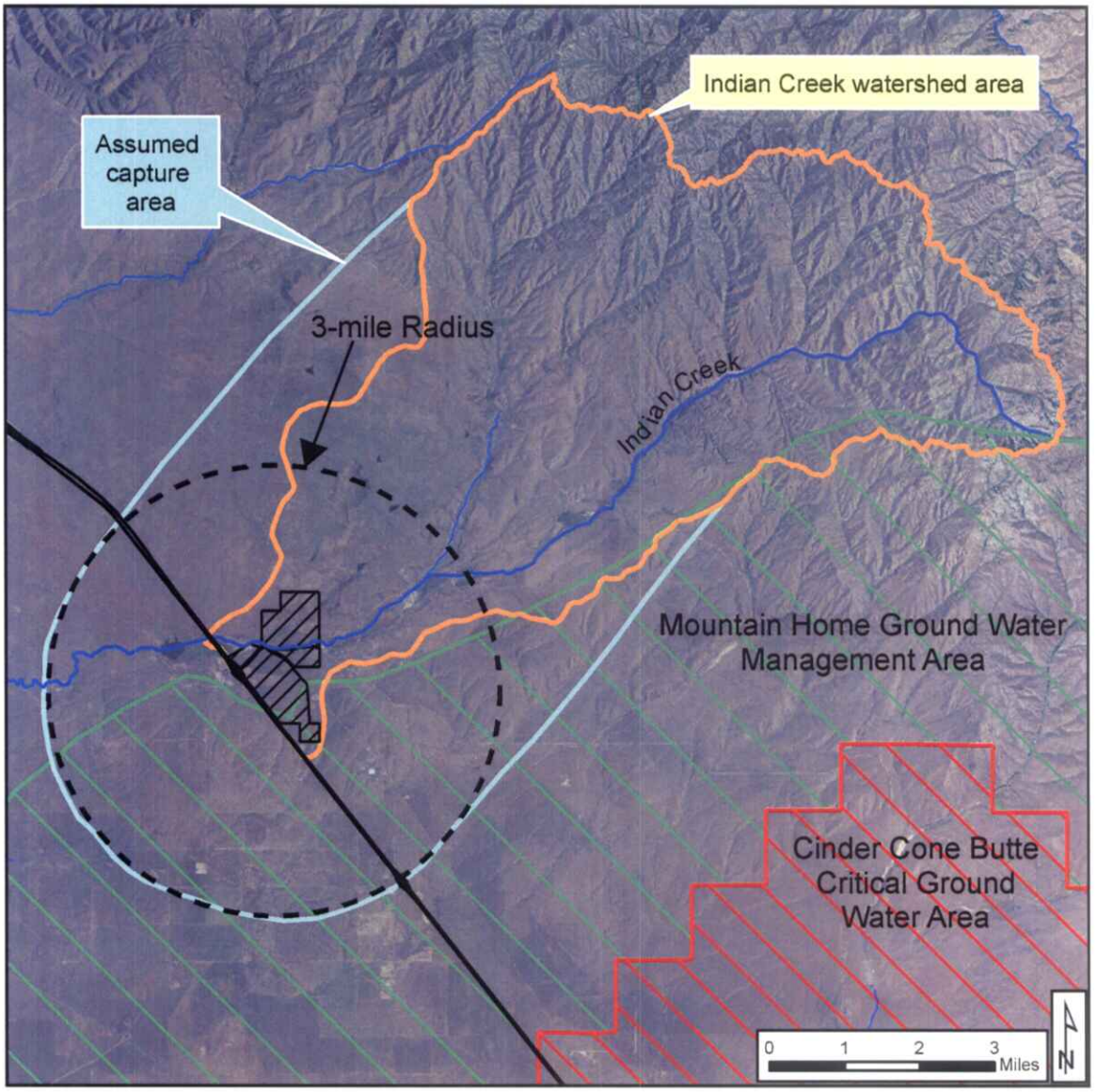


Figure 12. Ground water capture area in the vicinity of Mayfield Springs.

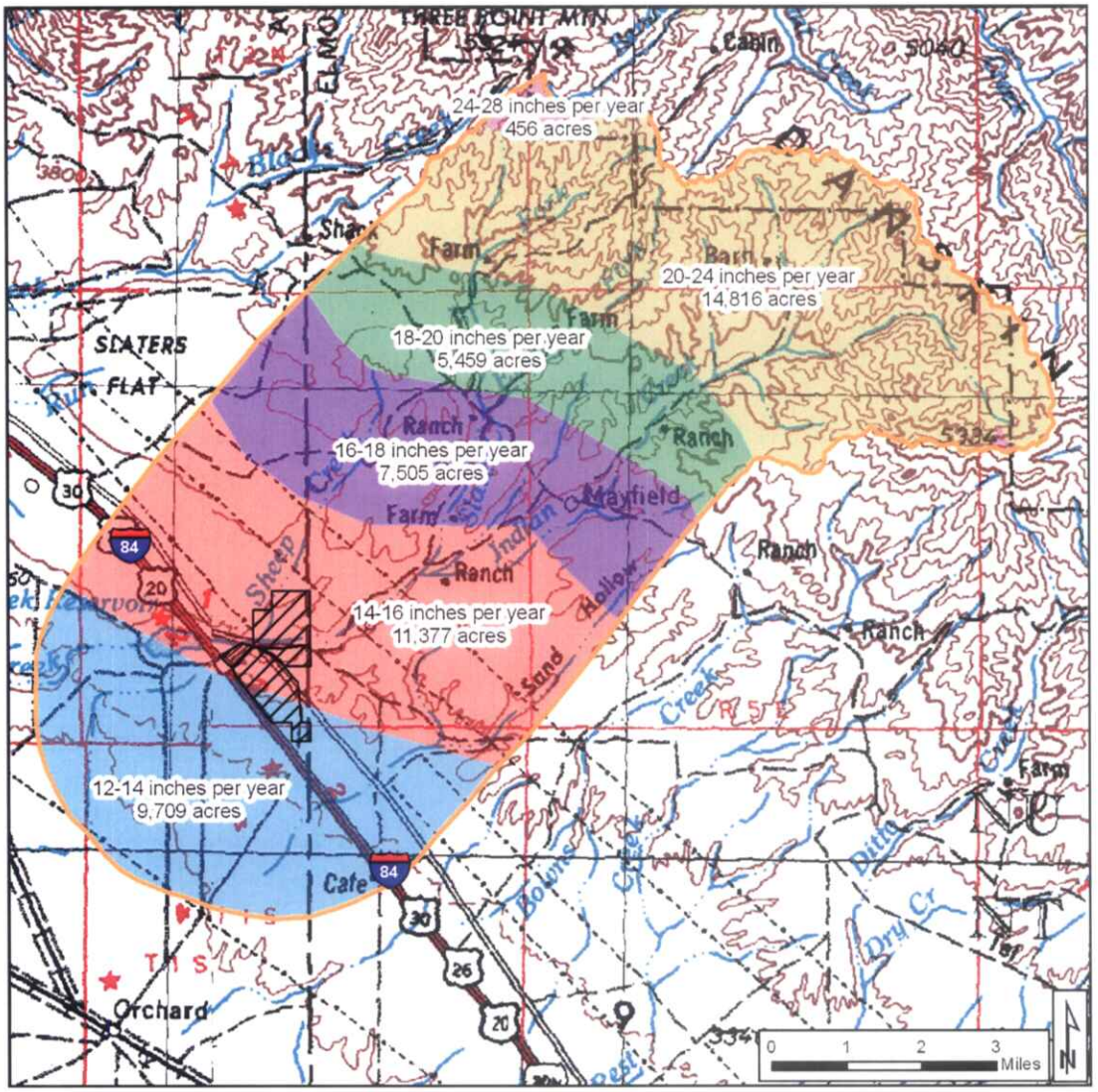


Figure 13. Annual precipitation rates in the Mayfield Springs area.

4.1.3.2. Surface Water Runoff

The primary surface water drainage in the area is Indian Creek, which channels water into Indian Creek Reservoir. Two flow measurements were made by the USGS in Indian Creek approximately 2,000 feet northeast of Mayfield (Section 17, T1N, R5E – Site 13211100). Flow rates of 0.6 cfs 1.66 cfs were measured on February 2, 1954 and June 26, 1954, respectively. The actual flow in Indian Creek is variable. Channel morphology suggests possible flood flows 100 cfs or greater.

Approximately 8-10 cfs was observed flowing in Indian Creek at the Mayfield Bridge (Figure 15, page 24) during a reconnaissance visit on March 13, 2006. The Indian Creek channel downstream of the Mayfield Springs property was dry. All of the water entering the Indian Creek Valley at Mayfield had seeped into the subsurface before reaching the Indian Creek Reservoir.

Anecdotal information suggests that this is a common pattern. Neil Helmick (a local resident) suggests that flow from Indian Creek into the Indian Creek Reservoir is rare. The Indian Creek channel has generally not carried water through the Mayfield Springs property in the last 10 years. Mr. Helmick indicates that a large portion Indian Creek Reservoir water comes from Sheep and Caldwell Creeks.

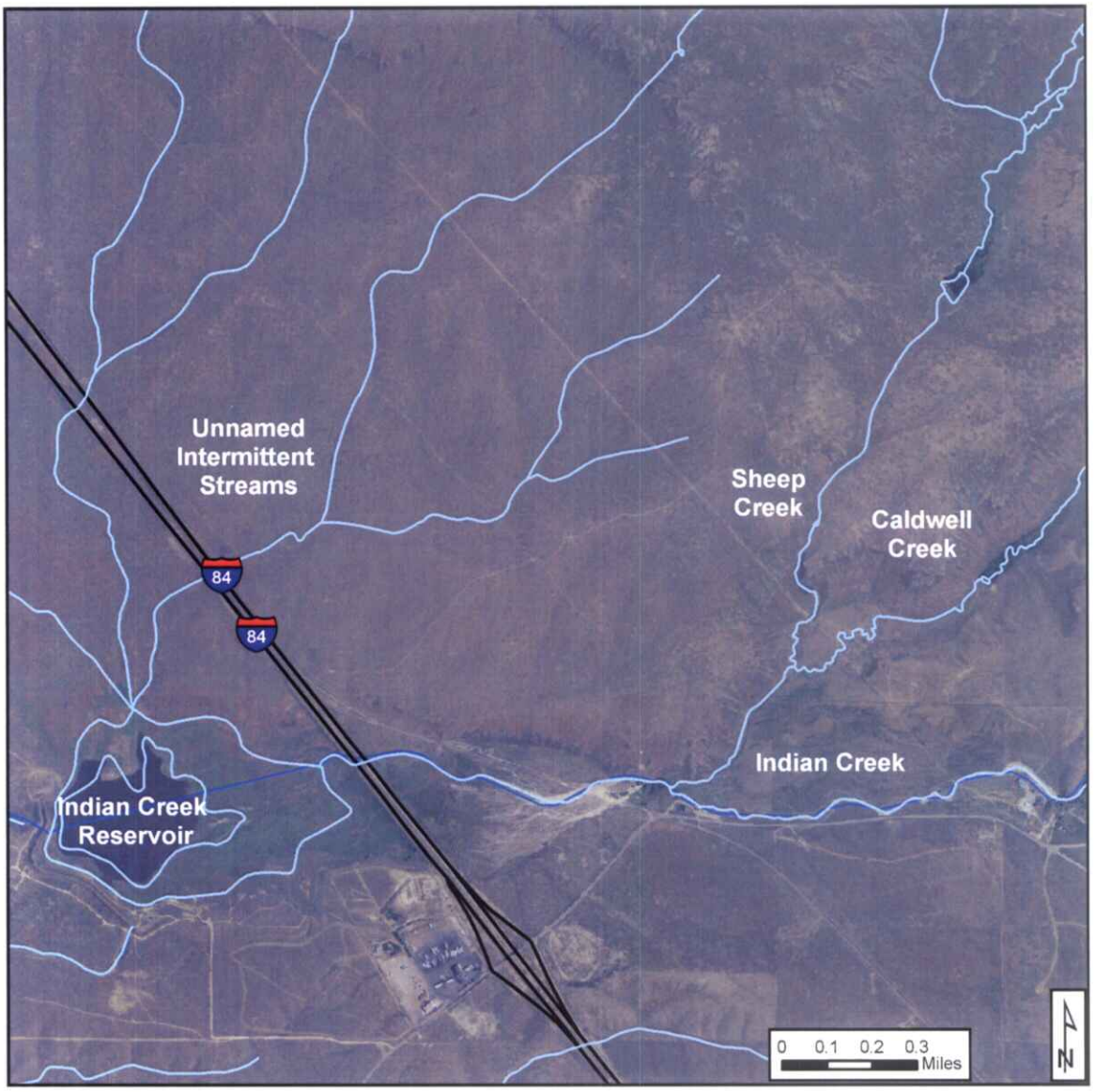


Figure 14: Indian Creek Reservoir and vicinity.

4.1.3.3. Indian Creek Reservoir

Indian Creek flows (primarily during high-water events) into Indian Creek Reservoir. Other sources of flow into the Indian Creek Reservoir include Sheep and Caldwell

Creeks and several unnamed streams (Figure 14). Discharge from Indian Creek Reservoir is to the lower Boise River.

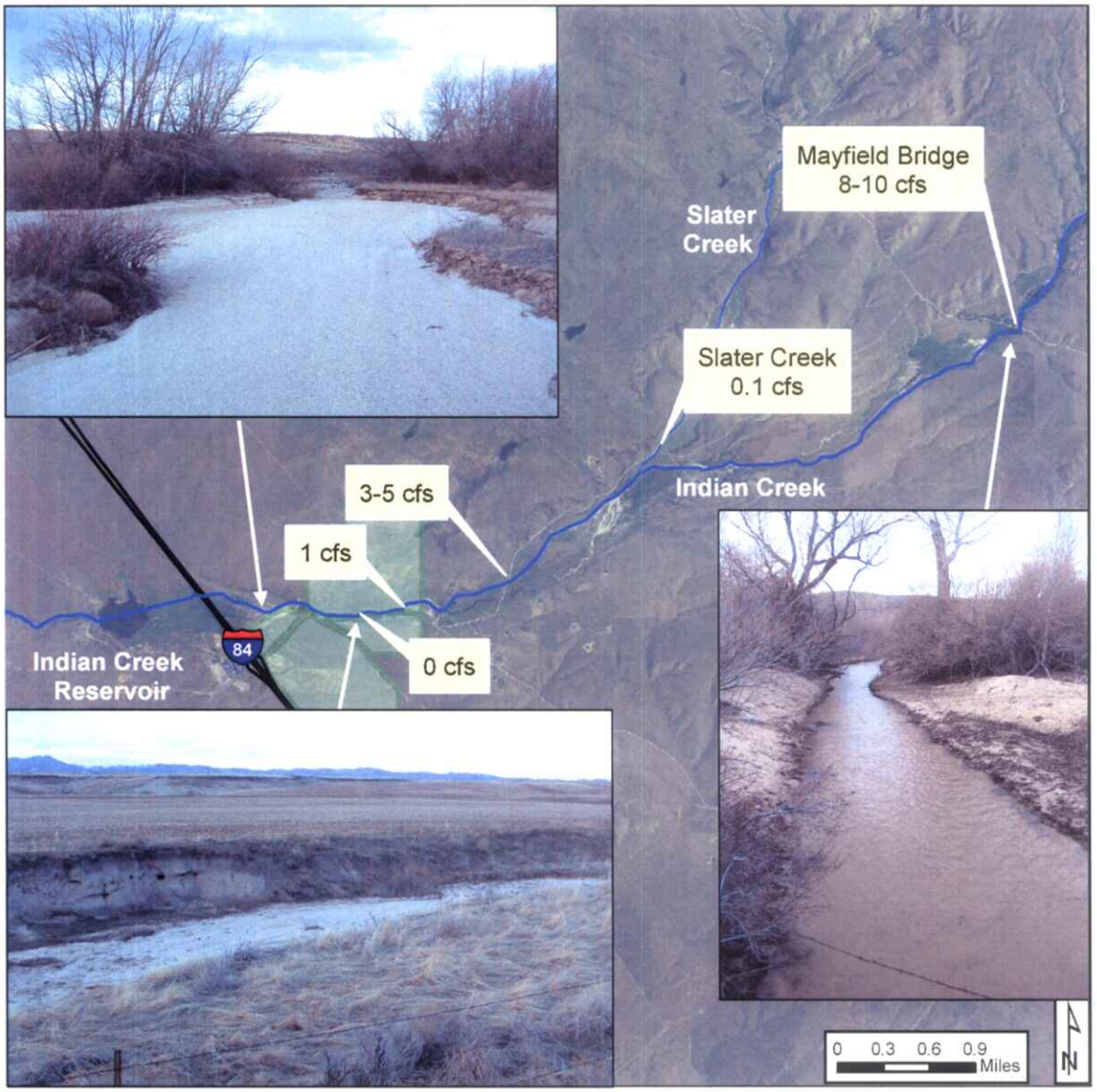


Figure 15: Approximate Indian Creek flows on March 13, 2006.

The Idaho Department of Fish and Game has water right claims (63-4679 and 63-4338) pending for the use of water in Indian Creek for wildlife storage, recreation storage, and fish propagation. The claims lists a diversion rate of 100 cfs and volume limit of 3,000 acre-feet. The IDWR dam safety database lists the storage volume of Indian Creek Reservoir as 2,035 acre feet. However, there is insufficient water to fill the reservoir in many years.

Based on general observations and anecdotal information, it was assumed that there was zero discharge from Indian Creek Reservoir during normal years. Thus, it was assumed that any water entering Indian Creek Reservoir is lost to evaporation or infiltrates into the subsurface. The reservoir, based on the image in Figure 14, is approximately 41 acres in size. This size varies according to season. Assuming an annual evaporation loss of 3.5 feet per acre and an average 80-acre reservoir/riparian area size, the total evaporative losses in an average year from the reservoir area might be approximately 280 acre feet.

4.1.3.4. Evapotranspiration

A preliminary 2002 SEBAL[1] estimate for seasonal rangeland evapotranspiration in the lower Boise River basin was 9.5 inches (Morse et al., 2003). Assuming that this rough approximation applies to the Indian Creek watershed, the annual volume of evapotranspiration could be approximately 39,000 acre feet.

4.1.3.5. Stream Seepage

The areal infiltration, evapotranspiration, and Indian Creek Reservoir evaporation estimates (approximately 3,600 acre feet, 39,000, and 280 acre feet, respectively) account for only a portion of the estimated average precipitation (72,000 acre feet). This leaves a difference of approximately 29,000 acre feet. A substantial portion of this water seeps into the subsurface from the Indian Creek channel, tributary channels, and from Indian Creek Reservoir. Evidence for substantial seepage includes observed channel losses, the presence of shallow coarse-grained alluvial sediments (which enable seepage to the subsurface), substantial wetland and riparian areas in the Mayfield area, shallow (likely perched) aquifers in the vicinity of Indian Creek, and low TDS values reflecting infiltration of surface runoff from a granitic area.

All of the water in upper Indian Creek on March 13, 2006 was lost to the subsurface by the time the channel exited the Mayfield Springs property. The observed flow on this day (8-10 cfs) was likely less than typical for March because of cool basin temperatures. A typical spring flow in Indian Creek at Mayfield could be higher than 10 cfs, especially in good water years. An average flow of 20 cfs (combined Indian Creek flow and shallow subsurface flow into the Mayfield area) over a 3-month period would result in an aquifer gain of approximately 3,600 acre feet (assuming that all of this water is lost to channel seepage). In addition, temporary higher flows would also contribute to seepage losses from either the channel or Indian Creek Reservoir. A temporary, 3-day flow of 100 cfs (resulting from a possible rain-on-snow event during the winter) could result in a seepage loss of about 600 acre feet.

These combined seepage losses (4,200 acre feet) are substantially less than the 29,000 acre feet difference between precipitation and other estimated surface water losses. Reasons for the discrepancy could include (1) lower than estimated precipitation, (2)

[1] "Surface Energy Balance Algorithm for Land"

higher than estimated evapotranspiration, (3) higher than estimated areal infiltration rates, (4) higher than estimated stream seepage rates, or (5) surface irrigation.

A text-based search of the IDWR water rights database for water rights in sections 18, 19, 23, 24, 27, and 28 revealed one decreed surface-water irrigation right (63-2143) listing diversions from Big Draw Creek , Dry Hollow Creek , Indian Creek , Slater Creek for the irrigation of 53 acres. All other irrigation water rights list ground water sources. Diversions under water right 63-2143 would not cause the discrepancy in water budget estimates listed above.

In summary, seepage from Indian Creek and Indian Creek Reservoir are likely higher than the 4,200 acre feet listed above but less than the 29,000 acre-foot difference between precipitation and other estimated losses.

4.1.4. Aquifer Outflows

Most of the subsurface flow from aquifers in this area is (1) withdrawals by wells and (2) underflow to toward the Snake River. There are 73 wells listed in the IDWR well construction database as located within the basin boundary (as defined in Figure 12). Of these 73 wells, 57 are for domestic uses, four are for irrigation, two are for industrial (Boise Stage Stop), two are for cathodic protection, four are for commercial purposes, one is for stockwater, one is a test well, and two have unknown uses. The amount of land irrigated by ground water in this basin appears to be small, likely less than 150 acres. Assuming 150 acres of irrigation (at 4.5 acre feet per year per acre for delivery and consumptive purposes), domestic use for 57 homes (at 0.3 acre feet per year per household), commercial/industrial from six wells (at 1.0 acre feet per year per well), and stockwater use for 100 cattle (1.4 acre feet per year), the annual average consumption of ground water might be approximately 700 acre feet per year. This is likely a high estimate of total withdrawals because an irrigation application rate of 4.5 feet per acre implies some inefficiency which would result in returns (recharge) to the shallow subsurface.

4.1.5. Water Budget Summary

A summary of estimated basin and aquifer inflows and outflows is provided in Table 4. Based on the estimates described above, there is likely a total recharge rate ranging from about 8,600 to 32,600 acre feet available from aquifers in the Mayfield Springs area in an average year.

A 3-mile area had been assumed for estimating areal recharge. This radius is likely greater than the actual zone influenced by proposed pumping. However, the areal assumption used for estimating water budget components is likely of small consequence because most recharge to local aquifers appears to occur not from areal infiltration in the 3-mile radial area but from seepage from Indian Creek, tributaries to Indian Creek, and Indian Creek Reservoir.

Component	Inflow to Basin (afa)	Surface Outflow from Surface Basin (afa)	Estimated Aquifer Recharge (afa)	Current ground water diversions (afa)	Available for Appropriation (afa)
Precipitation	72,000				
Estimated areal infiltration		-3,600	3600		
Evapotranpiration		-39,000			
Reservoir evaporation (based on water rights63-4338 and 63-4679)		-280			
Surface discharge from Indian Creek Reservoir		0			
Maximum surface channel seepage		-29,120			
Likely infiltration from surface channels and Indian Creek Reservoir			5,000 to 29,000		
Discharge to wells				-700	
Total	72000	-72,000	8,600 to 32,600	-700	7,900 to 31,900

Table 4: Water budget summary.

4.2. Ground Water Availability for Appropriation

The amount of water required for domestic and commercial/industrial uses at Mayfield Springs was estimated to be approximately 1,815 acre feet per year (see Section 1.3). The total amount of water available for appropriation from aquifers in the Mayfield Springs area likely ranges from approximately 7,900 acre feet to 31,900 acre feet per year (Table 4). This quantity exceeds the combined existing and proposed withdrawals.

A second indication of ground water availability is that of local ground water levels. Most water levels in this area are steady or rising slightly (see Section 2.5 and Appendix C). Stable water levels suggest that water is available for appropriation.

4.3. Potential Impact on Existing Water Rights

Little or no impact on existing water rights and water users are anticipated as a result of proposed new diversions for the Mayfield Springs Planned Community. The preceding water budget analysis suggests that there is an ample water supply for existing and proposed uses.

4.4. Potential Impacts on Mountain Home GWMA

The Mountain Home GWMA boundary crosses a portion of the Mayfield Springs property in Section 33 of T1N R4E. The boundary appears to be based on a local surface water divide in this area. Based on hydrographs for three wells, ground water levels within the Mountain Home GWMA near the Mayfield Springs property have been stable or rising since the 1960s (see Section 2.5, Figure 6, Figure 16 through Figure 18, and Appendix C). Ground water level declines seen in other parts of the GWMA or in the Cinder Cone Butte Critical Groundwater Area are not apparent in these wells. Stable (or rising) ground water levels in the Mayfield Springs area suggest the availability of water for appropriation.

New ground water pumping in the Mayfield Springs area may cause a local depression in ground water levels. Some depression is required for water to move toward new pumping wells. This pumping will not affect the GWMA boundary because the boundary is based on surface topography.

However, it is unlikely that new pumping in the Mayfield Springs will substantially impact ground water conditions in the Mountain Home GWMA. The water budget for the Mayfield Springs area suggests that there is ample water available for the new proposed uses (Section 4.1.5). It is unlikely that withdrawals in the Mayfield Springs will draw a significant amount water from the Mountain Home GWMA.

The predominant ground water flow direction in the Mayfield Springs area is to the southwest (Figure 7). General ground water flow in the Mayfield Springs area is parallel to the northwestern Mountain Home GWMA boundary – new uses will not reduce underflow into the Mountain Home GWMA.

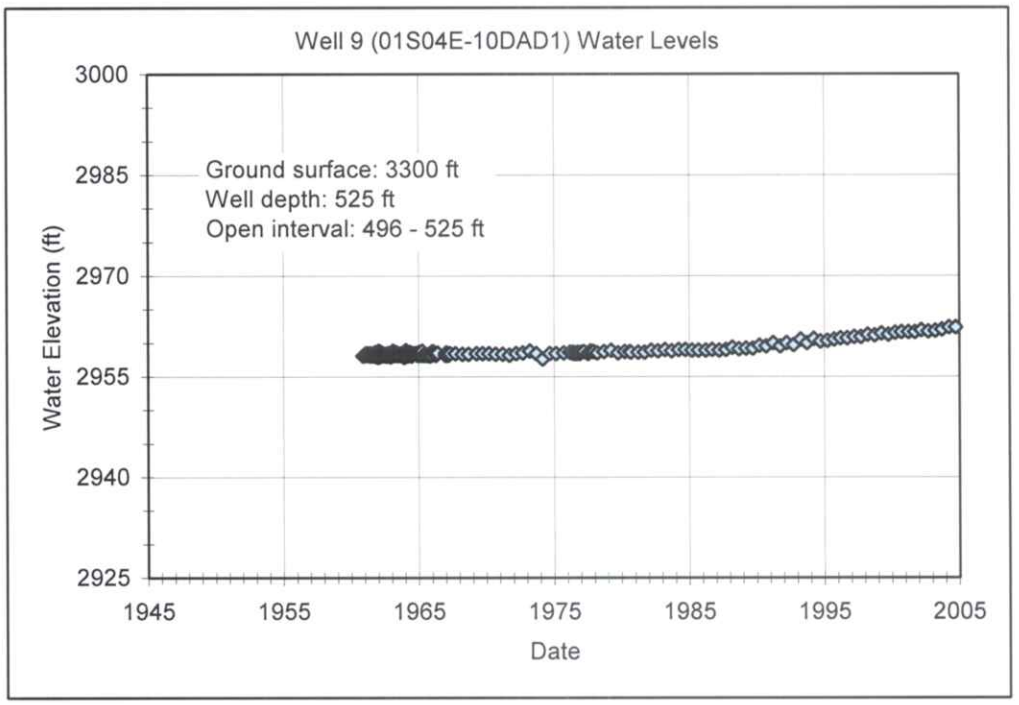


Figure 16: Hydrograph for Well 01S04E-10DAD1 (Well 9 in Figure 6).

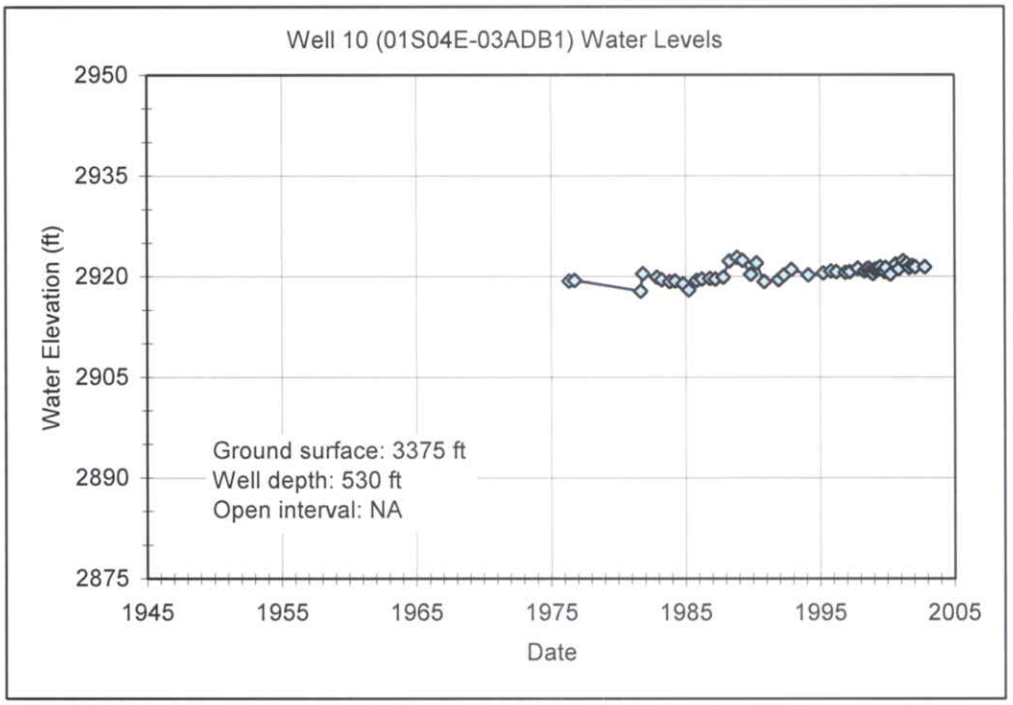


Figure 17: Hydrograph for Well 01S04E-03ADB1 (Well 10 in Figure 6).

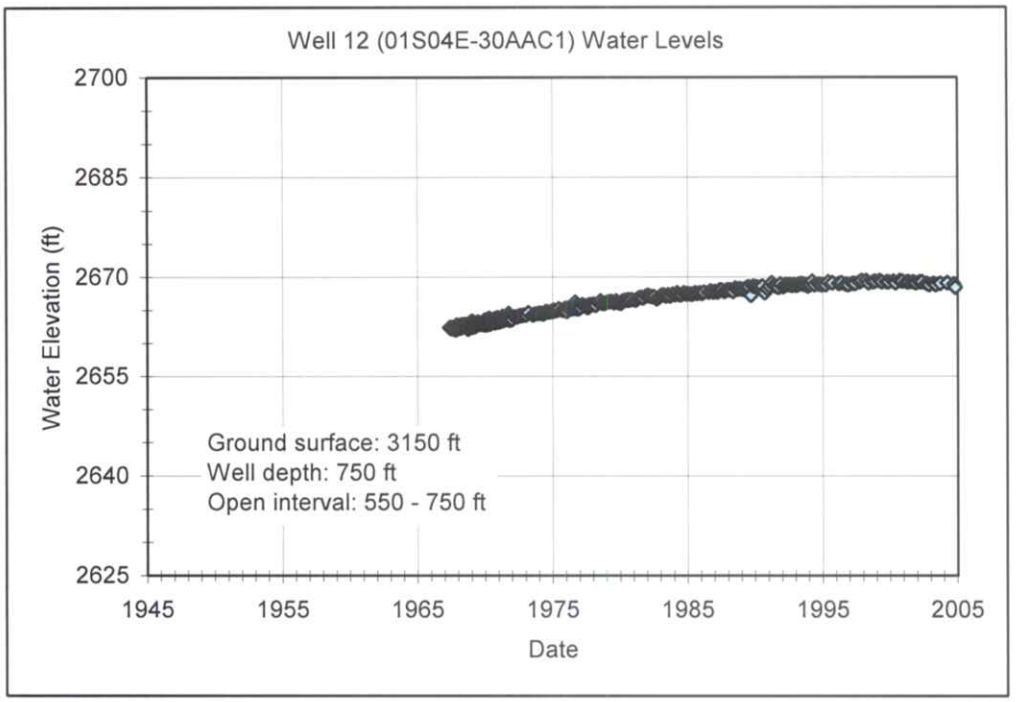


Figure 18: Hydrograph for Well 01S04E-30AAC1 (Well 12 in Figure 6).

5. REFERENCES

Bond, J.G. and Wood, C.H., 1978. Geologic map of Idaho. Idaho Department of Lands, Bureau of Mines and Geology, 1:500,000 scale.

Harrington, H. and Bendixsen, S., 1999. Ground Water Management Areas in Idaho - Overview as of 1998, Idaho Department of Water Resources, Boise, ID.

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Wood, S.H., 1996. Cross Sections of the Southeast Boundary of the Treasure Valley Groundwater Study Area: Notes on the Geology of the Mayfield-Orchard Area, Ada and Elmore County, Idaho, Boise State University Geosciences, prepared for the Treasure Valley Hydrologic Project.

Document Info:

SPF Job Number: 329.0050
Filename: MayfieldWaterSupplyAssessment(DRAFT).doc
File Size: 46066688 bytes
Last edited: 3/20/2006
Pages: 39

Appendix A: Drillers' Reports

Form 238-7
1/78

STATE OF IDAHO
DEPA[illegible]ENT OF WATER RESOURCES

[illegible] TYPEWRITER OR
[illegible]ALLPOINT PEN

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: Marie Allen
Address: Rte 4 Nampa
Owner's Permit No. ______

2. NATURE OF WORK

☒ New well ☐ Deepened ☐ Replacement
☐ Abandoned (describe method of abandoning) ______

3. PROPOSED USE

☒ Domestic ☐ Irrigation ☐ Test ☐ Municipal
☐ Industrial ☐ Stock ☐ Waste Disposal or Injection
☐ Other ______ (specify type)

4. METHOD DRILLED

☒ Rotary ☐ Air ☐ Hydraulic ☐ Reverse rotary
☐ Cable ☐ Dug ☐ Other ______

5. WELL CONSTRUCTION

Casing schedule: ☒ Steel ☐ Concrete ☐ Other ______

Thickness		Diameter		From		To	
.250	inches	6	inches +	1 1/2	feet	364 1/2	feet
	inches		inches		feet		feet
	inches		inches		feet		feet
	inches		inches		feet		feet

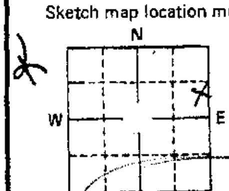
Was casing drive shoe used? ☒ Yes ☐ No
Was a packer or seal used? ☐ Yes ☒ No
Perforated? ☐ Yes ☒ No
How perforated? ☐ Factory ☐ Knife ☐ Torch
Size of perforation ______ inches by ______ inches

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: ☐ Slurry pit ☒ Temp. surface casing ☒ Overbore to seal depth
Method of joining casing: ☐ Threaded ☒ Welded ☐ Solvent Weld
☐ Cemented between strata
Describe access port ______

6. LOCATION OF WELL

Sketch map location must agree with written location.



Subdivision Name: None
Lot No. ______ Block No. ______
County: Canyon
SE ¼ NE ¼ Sec. 36, T. 1 N/S, R. 3 E/W.

7. WATER LEVEL

Static water level 242 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 ______

8. WELL TEST DATA

☐ Pump ☐ Bailer ☐ Air ☐ Other ______

Discharge G.P.M.	Pumping Level	Hours Pumped

9. LITHOLOGIC LOG

Hole Diam.	Depth From	Depth To	Material	Water Yes	Water No
	0	3	Topsoil & driveway fill		X
	3	9	Sand & Gravel		X
	9	118	Sandy clay		X
	118	135	Fine Sand		X
	135	180	Sandy clay		X
	180	240	Yellow Clay		X
	240	300	Yellow shale & sand		X
	300	360	Yellow clay		X
	360	400	Blue clay		X
	400	420	Blue shale	X	
	420	425	Blue Sand & Shale	X	
	425	516	Blue Shale		X
	516	523	Blue Sand & Shale	X	

051875

RECEIVED
JUN 19 19[illegible]
Department of Water Resources
Western Regional Office

10. Work started 12/15/78 finished 1/10/79

11. DRILLERS CERTIFICATION

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

Firm Name: Davis Well Drilling Firm No. 101
Address: 415 N. Pitt Lane Date 3/15/79
Signed by (Firm Official): Charles Davis
and
(Operator) ______

MICROFILMED

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

(1)

2

815531

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

Form 238-7
3/95-C96

IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

1. DRILLING PERMIT NO. __ - __ - __ ___ - ___
Other IDWR No. D0031310

2. OWNER:
Name Larry Farnsworth
Address 1020 N. Breezy Lane
City Mayfield State ID Zip 83716

3. LOCATION OF WELL by legal description:
Sketch map location must agree with written location

N / W / E / S

Twp. 1 North ☒ or South ☐
Rge. 4 East ☒ or West ☐
Sec. 23 1/4 (10 acres) NE 1/4 (40 acres) NE 1/4 (160 acres)
Gov't lot _____ County Elmore
Lat: : : Long: : :
Address of Well Site 1 Mile North on Slater Creek
City Mayfield
(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/FILTER PACK			AMOUNT	METHOD
Material	From	To	Sacks or Pounds	
Bentonite	0	18	600 Lbs	overbore

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
6.625	+2	147	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:
69 ft. below ground Artesian Pressure ___ lb
Depth flow encountered ___ ft. Describe access port or control devices: _____

11. WELL TESTS:
☐ Pump ☐ Bailer ☒ Air ☐ Flowing Artesian

Yield gal/min.	Drawdown	Pumping Level	Time
60			1 Hr

Water Temp. _____ Bottom hole temp. _____
Water Quality test or comments: _____
Depth first Water Encountered 138'

12. LITHOLOGIC LOG: (Describe repair or abandonment)

Bore Dia	From	To	Remarks:Lithology, Water Quality & Temp.	Water Y	Water N
10	0	1	Topsoil		☒
10	1	8	Sandy clay, tan		☒
10	8	10	Tan clay		☒
10	10	12	Tan sand & clay		☒
10	12	18	Sandy clay, tan		☒
6	18	30	Sandy clay, tan		☒
6	30	38	Clay, cream		☒
6	38	58	Sandy clay, cream		☒
6	58	65	Tan sand		☒
6	65	88	Clay		☒
6	88	98	Sandy clay, tan		☒
6	98	118	Sandy clay		☒
6	118	135	Sandy clay		☒
6	135	138	Clay, wet	☒	
6	138	147	Sand, white	☒	

RECEIVED
JUN 28 2004
WATER RESOURCES
WESTERN REGION

Completed Depth: 147 (Measurable)
Date: Started 05/20/04 Completed 05/21/04

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 Hiddleston & Son Inc-Boise Firm No. 35
Firm Official [signature] Date 6-18-04
Supervisor or Operator [signature] Date 6-18-04
(Sign once if Firm Official & Operator)

Date: 6/11/2004 Time: 12:36 PM

Form 238-7
8/90

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

U[illegible]PEWRITER OR
[illegible]LPOINT PEN

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.

R-2

1. WELL OWNER

Name Ron Ambrose

Address 2295 E. 3100 South, Wendell, ID 83355

Drilling Permit No. 63-92-W-119

Water Right Permit No. _____

2. NATURE OF WORK

☒ New well ☐ Deepened ☐ Replacement
☐ Well diameter increase
☐ Abandoned (describe abandonment procedures such as materials, plug depths, etc. in lithologic log)

3. PROPOSED USE

☒ Domestic ☐ Irrigation ☐ Test ☐ Municipal
☐ Industrial ☐ Stock ☐ Waste Disposal or Injection
☐ Other _____ (specify type)

4. METHOD DRILLED

☒ Rotary ☒ Air ☐ Hydraulic ☐ Reverse rotary
☐ Cable ☐ Dug ☐ Other _____

5. WELL CONSTRUCTION

Casing schedule: ☒ Steel ☐ Concrete ☐ Other _____

Thickness	Diameter	From	To
.250 inches	8 5/8 inches +	2 feet	255 feet
_____ inches	_____ inches	_____ feet	_____ feet
_____ inches	_____ inches	_____ feet	_____ feet
_____ inches	_____ inches	_____ feet	_____ feet

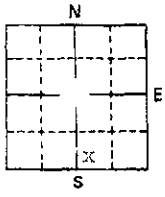
Was casing drive shoe used? ☒ Yes ☐ No
Was a packer or seal used? ☐ Yes ☒ No
Perforated? ☐ Yes ☒ No
How perforated? ☐ Factory ☐ Knife ☐ Torch ☐ Gun
Size of perforation _____ inches by _____ inches

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 98 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 _____

6. LOCATION OF WELL

Sketch map location must agree with written location



Subdivision Name _____
Lot No. _____ Block No. _____
County Elmore
SW ¼ SE ¼ Sec. 23, T. 1 N ☒ S ☐ R. 4 E ☒ W ☐

7. WATER LEVEL

Static water level 205 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 _____
Describe artesian or temperature zones below.

8. WELL TEST DATA

☐ Pump ☐ Bailer ☒ Air ☐ Other _____

Discharge G.P.M.	Pumping Level	Hours Pumped
40		3

9. LITHOLOGIC LOG

Bore Diam.	Depth From	Depth To	Material	Water Yes	Water No
10	0	20	Decomposed granite		
"	20	24	Decomp granite and red clay		
"	24	60	Tan clay and sand		
10	60	98	Gravel and sand		
8	98	110	Tan clay		
"	110	160	Tan clay sand		
"	160	180	Sand and ½ gravel		
"	180	225	Sand		
"	225	250	Tan clay and sand		
"	250	253	Sand	X	
8	253	256	Sand and gravel		

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Department of Water Resources

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MAR 24 1992
Department of Water Resources
Western Regional Office

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10. Work started 3/10/92 finished 3/13/92

11. DRILLERS CERTIFICATION

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

Firm Name Hiddleston & Son, Inc Firm No. 35
Address Rt. 3, Box 610-D Mtn Home, ID 83647 Date 3/16/92
Signed by (Firm Official) Mark Hiddleston
and
(Operator) John R Smith

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APR 09 1992

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

Form 238-7
6/89

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

US. EWRITER OR
BALLPOINT PEN

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 James & Darla Underwood
HC34, Mayfield Stage
Address Boise, ID 83706
Drilling Permit No. 63-9179-127-100
Owner's Permit No.

2. NATURE OF WORK

☐ New well ☒ Deepened ☐ Replacement
☐ Well diameter increase
☐ Abandoned (describe abandonment procedures such as materials, plug depths, etc. in lithologic log)

3. PROPOSED USE

☒ Domestic ☐ Irrigation ☐ Test ☐ Municipal
☐ Industrial ☐ Stock ☐ Waste Disposal or Injection
☐ Other _____ (specify type)

4. METHOD DRILLED

☐ Rotary ☐ Air ☐ Hydraulic ☐ Reverse rotary
☒ Cable ☐ Dug ☐ Other

5. WELL CONSTRUCTION * = Depth Referenced to Top of 6 Inch Casing.

Casing schedule: ☒ Steel ☐ Concrete ☐ Other

Thickness	Diameter	From	To
_____ inches	_____ inches +	3 feet	459 feet
(See original well log) inches			feet
0.258 inches	5 9/16 inches	443.4* feet	501.3 feet
0.237 inches	4 1/2 inches	475.3* feet	515.9 feet

Was casing drive shoe used? ☐ Yes ☒ No - liners pulled,
Was a packer or seal used? ☐ Yes ☒ No top & Bottom
Perforated? ☐ Yes ☒ No
How perforated? ☐ Factory ☐ Knife ☐ Torch ☐ Gun
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 _____ Material used in seal: ☐ Cement grout
☐ Bentonite ☐ Puddling clay ☐ _____
Sealing procedure used: ☐ Slurry pit ☐ Temp. surface casing
liners ☐ Overbore to seal depth
Method of joining casing: ☐ Threaded ☒ Welded ☐ Solvent Weld
☐ Cemented between strata
Describe access port Remove pitless cap for 5" diam access.

6. LOCATION OF WELL

Sketch map location must agree with written location.

N / W / E / S

Subdivision Name _____
Lot No. _____ Block No. _____
County Elmore NW¼NE¼NE¼ S27 T1N R4E
NW¼ NE¼ NE¼ Sec. 27, T. 1N N ☒ S ☐, R. 4E E ☒ W ☐

AUG 28 1991

7. WATER LEVEL *≠ Depth Reference @ top of casing.

Static water level 342.4* feet below ~~land surface~~
Flowing? ☐ Yes ☒ No G.P.M. flow _____
Artesian closed-in pressure _____ p.s.i.
Controlled by: ☐ Valve ☐ Cap ☐ Plug
Temperature 71 °F. Quality Excellent
Describe artesian or temperature zones below.

8. WELL TEST DATA

☒ Pump ☐ Bailer ☐ Air ☐ Other installed.
Caution, keep sounding device out of well w/pump

Discharge G.P.M.	Pumping Level	Hours Pumped
5.7	less than 372 ft.	65

9. LITHOLOGIC LOG --* = Depth referenced to top of 6 inch casing.

Bore Diam.	Depth From	Depth To	Material	Water Yes	Water No
		475'	See original log by Bill Dot: Drill		
5"	475	506*	Rusty, poorly sorted fine sand	x	
			fines on down to silt size		
	506	507	Streak of Clay Brown to grey		x
	507	513	Sand, Fine, Poorly Sorted,		
			lighter colored, w/ Grey cast,	x	
	513	529	Sand & Gravel, Bank Run, Tight	x	
	529	530	Silty Sand	x	
	530	545	Tight Sand & Gravel	x	
	545	549	Rock, Basalt?Sandstone? Cemented		
			Gravel? Boulder?	?	
	549	551	Silt-Clay, Light Grey		x
[redacted]	551	561	Sand	x	
	561	565	Sandstone, Clay binder		x
	565	520*	Sand	x	
			Bridged hard at 551'*,		
			Dayed back to 520'* and		
			eventually on back to [redacted]		
			liner at 514'.		

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MAY 8 1991
Department of Water Resources
Western Regional Office

10. Work started March 25, 1991 Finished May 7, 1991

11. DRILLERS CERTIFICATION

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

Firm Name Artesian Co. Firm No. 318
7425 W. 36th S.
Address Mountain Home, ID Date May 7, 1991
83647-9613
Signed by (Firm Official) Hugh Harden
and
(Operator) Hugh Harden

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

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S-1

Form 238-7
6/96

IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

Use Typewriter or Ball Point Pen

1 OF 3

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Department of Water Resources

1. DRILLING PERMIT NO. 63 93 - 8 - 869 - 0
Other IDWR No. 63-11382

2. OWNER:
Name DANSKIN PROPERTIES LTD
Address INDIAN CR. RD. HC 34 MAYFIELD STAGE
City BOISE State ID Zip 83706

3. LOCATION OF WELL by legal description:
Sketch map location must agree with written location.

N / W / E / S

T. 01 N North ☐ or South ☐
R. 04 E East ☐ or West ☐
Sec. 27 , 1/4 (10 acres) 1/4 SW (40 acres) 1/4 NE (160 acres) 1/4
Gov't Lot ____ County ELMORE

Address of Well Site INDIAN CK RD HC34 MAYFIELD STAGE
(Give at least Direction + Distance to Road or Landmark)

Lot No. 19 Block No. 1 Subdivision DANSKIN PROPERTIES

4. PROPOSED USE: DOMESTIC
☐ Domestic ☐ Municipal ☐ Monitor ☐ Irrigation
☐ Thermal ☐ Injection ☐ Other

5. TYPE OF WORK NEW WELL
☐ New Well ☐ Modify or Repair ☐ Replacement ☐ Abandonment

6. DRILL METHOD REVERSE CIRCULATION
☐ Mud Rotary ☐ Air Rotary ☐ Cable ☐ Other

7. SEALING PROCEDURES

SEAL/FILTER PACK Material	From	To	AMOUNT Sacks or Pounds	METHOD
BENTONITE	0	126	22,500#	POURED
BENTONITE	360	380	2500#	POURED

Was drive shoe seal tested? YES NO How?

8. CASING/LINER:

Diameter	From	To	Guage	Casting	Liner	Steel	Plastic	Welded	Threaded
12"	+3	420	.250			☒	☐	☒	☐
10"	460	480	.250			☒	☐	☒	☐
						☐	☐	☐	☐
						☐	☐	☐	☐

Final location of shoes
Top Packer or Headpipe Bottom Tailpipe

9. PERFORATIONS/SCREENS
☐ Perforations Method
☒ Screens Type HOUSTON Material STAINLESS STEEL

From	To	Slot Size	Number	Diameter	Tele/Pipe Size	Casting	Liner
420	460	.20		10"		☐	☐
						☐	☐
						☐	☐
						☐	☐

10. WELL TESTS: N/A
☐ Pump ☐ Bailer ☐ Air ☐ Flowing Artesian

Yield gal./min.	Drawdown	Pumping Depth	Time
NA	NA	NA	NA

Temperature of water 65 Was a water analysis done? Yes ☐ No ☒
By whom?
Water Quality (odor, etc.) GOOD
Bottom Hole Temperature 65

11. STATIC WATER LEVEL:
NA ft. below surface Depth artesian flow found
Artesian pressure lb. Describe access port WELL CAP
Describe Controlling Devices:

12. LITHOLOGIC LOG: (Describe repairs or abandonment)

Bore Dia.	From	To	Remarks: Lithology, Water Quality & Temperature	GPM	SWL
26"	0	10	TOPSOIL		N
	10	35	COURSE SAND		Y
	35	55	CLAY & CRSE SAND MIX		Y
	55	65	CRS & FINE SAND SOME CLAY MIX		Y
	65	75	CRS SAND W/BRN CLAY MIX		N
	75	105	CRS SAND W/BRN CLAY & GRAVEL MIX		Y
	105	115	BRN CLAY W/CRS SAND&SMALL ROCK MIX		N
	115	120	BRN CLAY		N
	120	125	FINE TO COURSE SAND, WITH CLAY AND SMALL GRAVEL & LARGE ROCKS MIXED		N
	125	140	CRS SAND, CLAY, SMALL & LARGE GRAVEL MIXED		N
	140	160	FINE TO CRS SAND		N
	160	165	BROWN CLAY		N
	165	195	FINE TO CRS SAND W/CLAY & GRAVEL MIX		N
	195	210	FINE TO CRS SAND & GRAVEL		N
	210	223	FINE TO CRS SAND & CLAY MIX		N
	223	235	FINE TO CRS SAND & GRAVEL		N
	235	245	FINE TO CRS SAND & SMALL GRAVEL		N
	245	255	FINE TO CRS SAND W/ CLAY MIX		N
	255	260	FINE TO CRS SAND		N
	260	265	FINE SAND & CLAY MIX		N
	265	271	FINE TO CRS SAND W/CLAY&GRAVEL MIX		N
	271	275	FINE SAND		Y
	275	285	FINE SAND WITH CLAY MIX		N
	285	295	FINE TO CRS SAND		N
	295	305	CLAY & FINE SAND MIX		N

FEB 28 1994

Date: Started 10-15-93 Completed 10-20-93

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 PETE COPE DRILLING Firm No. 213
Firm Official Joseph Johnson Date 10/29/93
and
Supervisor or Operator Date 10/29/93
(Sign once if Firm Official & Operator)

FORWARD WHITE COPY TO WATER RESOURCES

5-2

Form 238-7
6/93

IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

Use Typewriter
or
Ball Point Pen

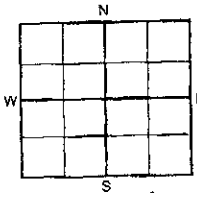
2 of 3

108846

1. DRILLING PERMIT NO. 63 93 C - 869 - 0
Other IDWR No.

2. OWNER:
Name DANSKIN PROPERTIES LTD
Address
City State Zip

3. LOCATION OF WELL by legal description:
Sketch map location must agree with written location.



T. 1 North ☒ or South ☐
R. 4 East ☒ or West ☐
Sec. 27 , 10 acres 1/4 40 acres SW 1/4 160 acres NE 1/4
Gov't Lot ____ County ELMORE

Address of Well Site 5 DIAN CREEK RD
(Give at least Direction + Distance to Road or Landmark)
Lot No. ____ Block No. ____ Subd. 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 Material	From	To	AMOUNT Sacks or Pounds	METHOD

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

8. CASING/LINER:

Diameter	From	To	Guage	Casting	Liner	Steel	Plastic	Welded	Threaded
						☐	☐	☐	☐
						☐	☐	☐	☐
						☐	☐	☐	☐
						☐	☐	☐	☐

Final location of shoes
Top Packer or Headpipe Bottom Tailpipe

9. PERFORATIONS/SCREENS
☐ Perforations Method
☐ Screens Type Material

From	To	Slot Size	Number	Diameter	Tele/Pipe Size	Casting	Liner
						☐	☐
						☐	☐
						☐	☐
						☐	☐

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10. WELL TESTS:
☐ Pump ☐ Bailer ☐ Air ☐ Flowing Artesian

Yield gal./min.	Drawdown	Pumping Depth	Time

Temperature of water ____ Was a water analysis done? Yes☐ No☐
By whom?
Water Quality (odor, etc.)
Bottom Hole Temperature

11. STATIC WATER LEVEL:
____ft. below surface Depth artesian flow found
Artesian pressure ____lb. Describe access port
Describe Controlling Devices:

56

12. LITHOLOGIC LOG: (Describe repairs or abandonment)

Bore Dia.	From	To	Remarks: Lithology, Water Quality & Temperature	GPM	SWL
	305	315	FINE SAND AND CLAY MIX		N
	315	325	CLAY & FINE SAND MIX		N
	325	335	LIGHT BRN CLAY		N
	335	339	LIGHT BRN CLAY		N
	339	341	FINE TO CRS SAND		N
	341	351	SANDY LIGHT BRN CLAY		N
	351	355	FINE TO CRS SAND & GRAVEL		N
	355	365	FINE SAND W/SMALL AMOUNT CLAY MIX		N
	365	370	FINE SAND		N
	370	372	FINE TO CRS SAND & BOULDERS		N
	372	374	FINE TO CRS SAND W/BOULDERS & BROKEN ROCK		N
	374	376	SAND & CLAY MIXED		N
	376	382	SANDY CLAY LIGHT BROWN COLOR		N
	382	387	SANDY CLAY & SHALE MIXED		N
	387	400	CRS SAND & CLAY MIXED		N
	400	407	FINE TO MED SAND		Y
	407	413	SAND & CLAY MIXED		Y
	413	423	FINE TO MED SAND & CLAY MIXED SOME PEA GRAVEL MIXED		Y
	423	429	FINE TO MED SAND & PEA GRAVEL		Y
	429	433	FINE SAND, & SMALL AMOUNT CLAY MIXED		Y
	433	440	FINE MED SAND		Y
	440	443	FINE TO CRS SAND W/GRAVEL&CLAY MIXED		Y
	443	449	FINE TO COURSE SAND		N
	449	450	BRN CLAY		Y
	450	453	SAND, GRAVEL & CLAY MIXED		

Date: Started Completed

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 Firm No.
Firm Official Date
and
Supervisor or Operator Date
(Sign once if Firm Official & Operator)

FORWARD WHITE COPY TO WATER RESOURCES

5-3

Form 238-7
6/93

IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

3 OF 3

Use Typewriter or Ball Point Pen

108847

1. DRILLING PERMIT NO. 63 93 C - 869 - 0
Other IDWR No.

2. OWNER:
Name DANSKIN PROPERTIES LTD
Address
City State Zip

3. LOCATION OF WELL by legal description:
Sketch map location must agree with written location.

N / W / E / S

T. 1 North ☒ or South ☐
R. 4 East ☒ or West ☐
Sec. 27 1/4 (10 acres) SW 1/4 (40 acres) NE 1/4 (160 acres)
Gov't Lot SE County Elmore

Address of Well Site
(Give at least Direction + Distance to Road or Landmark)
Lot No. Block No. Subd. 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 Material	From	To	AMOUNT Sacks or Pounds	METHOD

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

8. CASING/LINER:

Diameter	From	To	Guage	Casting	Liner	Steel	Plastic	Welded	Threaded
						☐	☐	☐	☐
						☐	☐	☐	☐
						☐	☐	☐	☐
						☐	☐	☐	☐

Final location of shoes
Top Packer or Headpipe Bottom Tailpipe

9. PERFORATIONS/SCREENS
☐ Perforations Method
☐ Screens Type Material

From	To	Slot Size	Number	Diameter	Tele/Pipe Size	Casting	Liner
						☐	☐
						☐	☐
						☐	☐
						☐	☐

FEB 28 1994

10. WELL TESTS:
☐ Pump ☐ Bailer ☐ Air ☐ Flowing Artesian

Yield gal./min.	Drawdown	Pumping Depth	Time

Temperature of water Was a water analysis done? Yes ☐ No ☐
By whom?
Water Quality (odor, etc.)
Bottom Hole Temperature

11. STATIC WATER LEVEL:
ft. below surface Depth artesian flow found
Artesian pressure lb. Describe access port
Describe Controlling Devices:

5

12. LITHOLOGIC LOG: (Describe repairs or abandonment)

Bore Dia.	From	To	Remarks: Lithology, Water Quality & Temperature	GPM	SWL
	453	456	CLAY, SAND, SOME GRAVEL		Y
	456	460	FINE TO COURSE SAND (GREEN COLOR)		Y
	460	463	FINE SAND & BLUISH-GREEN CLAY MIXED		Y
	463	473	LIGHT BLUE CLAY		N
	173	480	VERY FINE BLUE SAND & LIGHT BLUE CLAY		N

Date: Started Completed

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 Firm No.
Firm Official Date
and
Supervisor or Operator Date
(Sign once if Firm Official & Operator)

FORWARD WHITE COPY TO WATER RESOURCES

6

38-7

IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

Use Typewriter or Ball Point Pen

108844

1. DRILLING PERMIT NO. 63 93 W 1045 .000
Other IDWR No.

2. OWNER:
Name JIM UNDERWOOD
Address HC 34 MAYFIELD STAGE
City BOISE State ID Zip 83706

3. LOCATION OF WELL by legal description:
Sketch map location must agree with written location.

N / W / E / S

T. 1N North ☐ or South ☐
R. 4E East ☐ or West ☐
Sec 27 SW 1/4 NE 1/4 1/4
(10 acres, 40 acres, 160 acres)
Gov't Lot ____ County ELMORE

Address of Well Site HC 34 INDIAN CREEK RD HC 34 Mayfield Stage Stop
(Give at least Direction + Distance to Road or Landmark)

Lot No. ____ Block No. ____ Subd. Name ____

4. PROPOSED USE: DOMESTIC
☐ Domestic ☐ Municipal ☐ Monitor ☐ Irrigation
☐ Thermal ☐ Injection ☐ Other

5. TYPE OF WORK NEW WELL
☐ New Well ☐ Modify or Repair ☐ Replacement ☐ Abandonment

6. DRILL METHOD AIR ROTARY
☐ Mud Rotary ☐ Air Rotary ☐ Cable ☐ Other

7. SEALING PROCEDURES

SEAL/FILTER PACK Material	From	To	AMOUNT Sacks or Pounds	METHOD
*BENTONITE	0	20	750#	POURED

Was drive shoe seal tested? Yes ☐ No ☐ How?

8. CASING/LINER:

Diameter	From	To	Guage	Casting	Liner	Steel	Plastic	Welded	Threaded
8	+1	68	.250			☒	☐	☒	☐
						☐	☐	☐	☐
						☐	☐	☐	☐
						☐	☐	☐	☐

Final location of shoes *68
Top Packer or Headpipe ____ Bottom Tailpipe ____

9. PERFORATIONS/SCREENS
☒ Perforations Method FACTORY
☐ Screens Type ____ Material ____

From	To	Slot Size	Number	Diameter	Tele/Pipe Size	Casting	Liner
*28	68	1/8"		8"	PIPE	☒	☐
						☐	☐
						☐	☐
						☐	☐

10. WELL TESTS: PUMP
☐ Pump ☐ Bailer ☐ Air ☐ Flowing Artesian

Yield gal./min.	Drawdown	Pumping Depth	Time
55	40	63	60

Temperature of water 65 Was a water analysis done? Yes ☐ No ☒
By whom? ____
Water Quality (odor, etc.) GOOD
Bottom Hole Temperature 65

11. STATIC WATER LEVEL:
15 L.F. ft. below surface Depth artesian flow found ____
Artesian pressure ____ lb. Describe access port WELL CAP
Describe Controlling Devices: ____

6

12. LITHOLOGIC LOG: (Describe repairs or abandonment)

Bore Dia.	From	To	Remarks: Lithology, Water Quality & Temperature	GPM	SWL
	0	9	TOPSOIL		N
10	9	20	SAND		Y
8	20	23	GRAVEL		Y
	23	27	SAND		Y
	27	29	CLAY		N
	29	48	SAND		Y
	48	49	BROWN CLAY		N
	49	58	SAND		Y
	58	75	BROWN CLAY		N
	75		SAND		Y

RECEIVED
OCT 20 1993
WATER RESOURCES
WESTERN REGION

FEB 28 1994

Date: Started 10/12/93 Completed 10/13/93

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 PETE COPE DRILLING Firm No. 213
Firm Official [signature] Date 10/19/93
and
Supervisor or Operator [signature] Date 10/19/93
(Sign once if Firm Official & Operator)

FORWARD WHITE COPY TO WATER RESOURCES

Form 38-7
9/82

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

USE TYPEWRITER OR BALLPOINT PEN

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 Jim Underwood

Address Mayfield, Idaho

Owner's Permit No. 63-85-C-0001-000

2. NATURE OF WORK

☒ New well ☐ Deepened ☐ Replacement
☐ Abandoned (describe abandonment procedures such as materials, plug depths, etc. in lithologic log)

3. PROPOSED USE

☒ Domestic ☐ Irrigation ☐ Test ☐ Municipal
☐ Industrial ☐ Stock ☐ Waste Disposal or Injection
☐ Other _____ (specify type)

4. METHOD DRILLED

☒ Rotary ☒ Air ☐ Hydraulic ☐ Reverse rotary
☐ Cable ☐ Dug ☐ Other _____

5. WELL CONSTRUCTION

Casing schedule: ☒ Steel ☐ Concrete ☐ Other _____

Thickness	Diameter	From	To
.250 inches	6 inches	+ 3' feet	459' feet
_____ inches	_____ inches	_____ feet	_____ feet
_____ inches	_____ inches	_____ feet	_____ feet
_____ inches	_____ inches	_____ feet	_____ 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 ☐ 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 _____

6. LOCATION OF WELL

Sketch map location must agree with written location.

N / W / E / S

Subdivision Name _____
Lot No. _____ Block No. _____
County ELMORE
¼ NW ¼ Sec. 27 , T. 1 N/S, R. 4 E/W.

7. WATER LEVEL

Static water level 338' 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 _____
Describe artesian or temperature zones below.

8. WELL TEST DATA

☐ Pump ☐ Bailer ☒ Air ☐ Other _____

Discharge G.P.M.	Pumping Level	Hours Pumped
60		2

70045

9. LITHOLOGIC LOG

Bore Diam.	Depth From	Depth To	Material	Water Yes	Water No
8	0	2	boulders		x
8	2	20	coarse sand		x
6	20	100	brown clay/sand seams		x
6	100	150	sand/clay seams		x
6	150	158	clay/sand seams		x
6	158	185	sand & gravel		x
6	185	240	brown clay/sand seams		x
6	240	410	brown clay/sand seams		x
6	410	450	sand	x	
6	450	465	clay		x
6	465	485	sand	x	

RECEIVED
JUL 5 1985
Department of Water Resources
Western Regional Office

RECEIVED
JUL 8 1985
Department of Water Resources

MICROFILMED

10. Work started 5-09-85 finished 5-17-85

11. DRILLERS CERTIFICATION

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

Firm Name BILL DOTY WELL DRILLING Firm No. 42
Address RT. 7 BOX 311 CALDWELL, IDAHO 83605 Date 6-01-85
Signed by (Firm Official) Bill Doty
and
(Operator) Bill Doty

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

7

USE TYPEWRITER OR BALL POINT PEN

State of Idaho
Department of Water Administration

WELL DRILLER'S REPORT

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

1. WELL OWNER

Name Carl Agenbroad

Address 6 20 13th Ave. So.-Nampa, Idaho 83651

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

Reverse

☐ Cable ☒ Rotary ☐ Dug ☐ Other

5. WELL CONSTRUCTION

Diameter of hole 27 inches Total depth 200 feet

Casing schedule: ☐ Steel ☐ Concrete

Thickness	Diameter	From	To
.250 inches	16 inches	+2 feet	18 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	18 feet	200 feet
_____	perforations	_____ feet	_____ feet
_____	perforations	_____ feet	_____ feet

Well screen installed? ☐ Yes ☐ No

Manufacturer's name _____

Type Wire wound Model No. Layne

Diameter 14 Slot size 36 Set from 18 feet to 200 feet

Diameter ___ Slot size ___ Set from _____ feet to _____ feet

Gravel packed? ☒ Yes ☐ No Size of gravel 3/8 minus

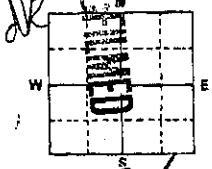
Placed from 18 feet to 200 feet

Surface seal depth 18 Material used in seal ☐ Cement grout ☒ Puddling clay ☒ Well cuttings

Sealing procedure used ☐ Slurry 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 Ada

SE ¼ NW ¼ Sec. 27 T. 1 N/S, R. 4 E/W

7. WATER LEVEL

Static water level 6 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 ☐ Bailer ☐ Other

Discharge G.P.M.	Draw Down	Hours Pumped
200	Clear down	

46767

9. LITHOLOGIC LOG

Hole Diam.	Depth From	Depth To	Material	Water Yes	Water No
	0	10	Top Soil		
	10	47	coarse white & gray sand		
	47	52	brown clay		
	52	64	coarse gray & white sand		
	64	105	brown clay & sand		
	105	118	brown clay		
	118	128	brown, xxxxxx sand		
	125	128	gray clay & white sand		
	128	133	blue clay		
	133	146	brown sand/streaks of clay		
	146	147	brown clay		
	147	150	brown sand		
	150	160	brown sand/clay streaks		
	160	165	brown clay/sand		
	165	180	brown sand/clay streaks		
	180	200	coarse brown sand/pea gravel		

8

10.

Work started Oct 3 finished Oct 8-74

11. DRILLERS CERTIFICATION

USGS

Firm Name Pete Cope Drilling Co., Inc Firm No. 213

Address Box 56 Meridian Date 10-12-74

Signed by (Firm Official) Pete Cope President

and

(Operator) Jack Jones

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

Form 238-7
/73

STATE OF IDAHO
DEPAR NT OF WATER RESOURCES

USE TYPEWRITER OR
BALLPOINT PEN

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 Ken Agenbroad

Address Mayfield Stage, Boise, Idaho 83706

Owner's Permit No. _____

2. NATURE OF WORK

☒ New well ☐ Deepened ☐ Replacement
☐ Abandoned (describe method of abandoning) _____

3. PROPOSED USE

☐ Domestic ☒ Irrigation ☐ Test ☐ Municipal
☐ Industrial ☐ Stock ☐ Waste Disposal or Injection
☐ Other _____ (specify type)

4. METHOD DRILLED

☐ Rotary ☐ Air ☐ Hydraulic ☒ Reverse rotary
☐ Cable ☐ Dug ☐ Other _____

5. WELL CONSTRUCTION

Casing schedule: ☒ Steel ☐ Concrete ☐ Other _____

Thickness	Diameter	From	To
.250 inches	16 inches	2 feet	500 feet
.250 inches	16 inches	510 feet	608 feet
.250 inches	16 inches	688 feet	712 feet
.250 inches	16 inches	752 feet	763 feet
.281 inches	26 inches	0 feet	72 feet

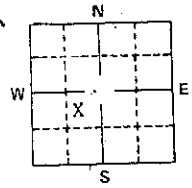
Was casing drive shoe used? ☐ Yes ☒ No
Was a packer or seal used? ☐ Yes ☒ No
Perforated? ☐ Yes ☒ No
How perforated? ☐ Factory ☐ Knife ☐ Torch
Size of perforation _____ inches by _____ inches

Number	From	To
_____ perforations	_____ feet	_____ feet
_____ perforations	_____ feet	_____ feet
_____ perforations	_____ feet	_____ feet

Well screen installed? ☒ Yes ☐ No
Manufacturer's name Roscoe Moss
Type _____ Model No. _____
Diameter 16 Slot size 80 Set from 500 feet to 510 feet
Diameter 16 Slot size 80 Set from 712 feet to 752 feet
Gravel packed? ☒ Yes ☐ No ☐ Size of gravel 3/8 minus
Placed from 6 feet to 763 feet
Surface seal depth 72 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 To be determined

6. LOCATION OF WELL

Sketch map location must agree with written location.



Subdivision Name _____
Lot No. _____ Block No. _____
County Ada
NE ¼ SW ¼ Sec. 28, T. 1N N/S, R. 4E E/W.

7. WATER LEVEL

Static water level 390 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 _____

8. WELL TEST DATA

☐ Pump ☐ Bailer ☐ Air ☐ Other _____

Discharge G.P.M.	Pumping Level	Hours Pumped

9. LITHOLOGIC LOG 106020

Hole Diam.	Depth From	Depth To	Material	Water Yes	Water No
28	0	6	Topsoil & Clay		
	6	25	Sand - Crsse. & Sharp		
	25	67	Brn. Sand - Crse w/some Clay		
	67	74	Siltstone & Cinders		
24	74	78	Siltstone & Cinders		
	78	98	Brn. Clay w/some Sand & Gravel		
	98	208	Brn. Clay w/Sand Streaks		
	208	224	Brn. Clay		
	224	268	Brn. Clay w/some Brn. Sand		
	268	272	Cemented Gravel		
	272	278	Sand & Gravel		
18	278	286	Brn. Clay w/some Sand & Gravel		
	286	311	Brn. Sand w/Gravel Streaks		
	311	384	Brn. Clay w/traces of Sand		
	384	390	Brn. Clay		
	390	396	Brn. Sand w/some Clay Streaks		
	396	444	Brn. Clay		
	444	466	Sand & Sm. Gravel w/some Clay		
	466	494	Sand & Clay		
	494	500	Blue Clay		
	500	509	Blue Sand w/some Gravel		
	509	513	Blue Clay w/Sand & Gravel streaks		
	513	530	Brn. Clay w/some Sand		
	530	574	Clay w/traces of Sand		
	574	596	White Clay w/traces of Sand		
	596	607	White & Blue Clay w/some Sand		
	607	621	Blue Clay w/some Sand		
	621	653	Blue Sand w/some Clay Streaks		
	653	660	Blue Clay		
	660	700	Blue Sand		
	700	736	Blue Clay		
	736	740	Green Clay w/Sand Streaks		
	740	744	Blue Clay w/traces of Sand		
	744	752	Green & Blue Sand		
	752	763	Blue Sand w/some Clay & Granite		

10.

500 510
608 688
712-752

10. Work started 9-2-79 Finished 9-4-79

RECEIVED
SEP 28 1979
Department of Water Resources
Western Regional Office

RECEIVED
OCT 2 1979

DRILLERS CERTIFICATION

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

Firm Name Pete Cope Drilling Co. Inc. Firm No. 214
Address P.O. Box 561 Meridian, ID 83642 Date 9-11-79
Signed by (Firm Official) Pete Cope President
and
(Operator) Jamie E. Jones

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

Form 238-7
/73

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

USE TYPEWRITER OR BALLPOINT PEN

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 Ken Agenbroad

Address Mayfield Stage, Boise, Idaho 83706

Owner's Permit No. _____

2. NATURE OF WORK

☒ New well ☐ Deepened ☐ Replacement
☐ Abandoned (describe method of abandoning) _____

3. PROPOSED USE

☐ Domestic ☒ Irrigation ☐ Test ☐ Municipal
☐ Industrial ☐ Stock ☐ Waste Disposal or Injection
☐ Other _____ (specify type)

4. METHOD DRILLED

☐ Rotary ☐ Air ☐ Hydraulic ☒ Reverse rotary
☐ Cable ☐ Dug ☐ Other _____

5. WELL CONSTRUCTION

Casing schedule: ☒ Steel ☐ Concrete ☐ Other _____

Thickness	Diameter	From	To
.250 inches	14 inches +	2 feet	18 feet
_____ inches	_____ inches	_____ feet	_____ feet
_____ inches	_____ inches	_____ feet	_____ feet
_____ inches	_____ inches	_____ feet	_____ feet

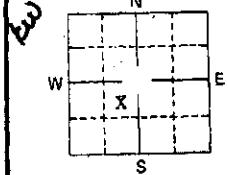
Was casing drive shoe used? ☐ Yes ☒ No
Was a packer or seal used? ☐ Yes ☒ No
Perforated? ☐ Yes ☒ No
How perforated? ☐ Factory ☐ Knife ☐ Torch
Size of perforation _____ inches by _____ inches

Number		From	To
_____	perforations	_____ feet	_____ feet
_____	perforations	_____ feet	_____ feet
_____	perforations	_____ feet	_____ feet

Well screen installed? ☒ Yes ☐ No
Manufacturer's name Roscoe Moss
Type _____ Model No. _____
Diameter 14 Slot size 80 Set from 18 feet to 85 feet
Diameter ____ Slot size ____ Set from ____ feet to ____ feet
Gravel packed? ☒ Yes ☐ No ☐ Size of gravel 3/8 minus
Placed from 18 feet to 85 feet
Surface seal depth 18' 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 To be determined

6. LOCATION OF WELL

Sketch map location must agree with written location.



Subdivision Name _____
Lot No. _____ Block No. _____
County Ada
NE ¼ SW ¼ Sec. 28, T. 1N N/S, R. 4E E/W.

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 _____ °F. Quality _____

8. WELL TEST DATA

☐ Pump ☐ Bailer ☐ Air ☐ Other _____

Discharge G.P.M.	Pumping Level	Hours Pumped

9. LITHOLOGIC LOG

104110

Hole Diam.	Depth From	Depth To	Material	Water Yes	Water No
28	0	6	Topsoil		
	6	18	Brn. Clay & Sand		
	18	23	White Sand - Fine to Crse.		
	23	31	Brn. Sand & Gravel		
	31	32	Brn. Clay		
	32	39	Sand & Small Gravel		
	39	52	Brn. Clay w/Sand Streaks		
18	52	69	Silt Stone		
	69	85	Brn. Clay & Gravel		

RECEIVED
MAY 11 1979
Department of Water Resources
Western Regional Office

10. Work started 4-26-79 finished 4-28-79

11. DRILLERS CERTIFICATION

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

Firm Name Pete Cope Drilling Co. Inc. Firm No. 213
Address P.O. Box 561 Meridian, Id. 83642 Date 5-3-79
Signed by (Firm Official) Pete Cope
and
(Operator) Jesse Jones

MICRO

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

USE TYPEWRITER OR BALL POINT PEN

State of Idaho
Dep[illegible]ent of Water Resources

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 Gray Canal Co.
Address Middleton
Owner's Permit No. 63-8720

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 375 feet
Casing schedule: ☐ Steel ☐ Concrete

Thickness	Diameter	From	To
.250 inches	8 inches	+ 1 feet	315 feet
_____ inches	_____ inches	_____ feet	_____ feet
_____ inches	_____ inches	_____ feet	_____ feet
_____ inches	_____ inches	_____ feet	_____ feet
_____ inches	_____ inches	_____ feet	_____ 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 ¼ inches by 2 inches

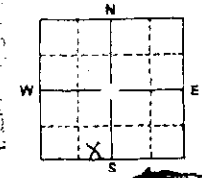
Number		From		To	
200	perforations	103	feet	200	feet
80	perforations	228	feet	250	feet
_____	perforations	_____	feet	_____	feet

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 ☐ Slurry pit ☐ Temporary surface casing ☐ Overbore to seal depth

6. LOCATION OF WELL 63
Sketch map location must agree with written location.



Subdivision Name _____
Lot No. _____ Block No. _____
County [redacted] Ada
SW ¼ SE ¼ Sec. 28 T. 1 N, R. 4 E

7. WATER LEVEL
Static water level 160 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 ☒ Bailer ☐ Other

Discharge G.P.M.	Draw Down	Hours Pumped

106023

9. LITHOLOGIC LOG

Hole Diam.	Depth From	Depth To	Material	Water Yes	Water No
8"	0	3	Top soil		
	3	56	Sand + Clay		
	56	69	Coarse Sand		
	69	103	Lava		
	103	200	Coarse Sand	✓	
	200	228	Sand + Clay Streak		
	228	245	Coarse Sand	✓	
	245	265	Fine Sand		
	265	305	Sand + Clay		
	305	340	Coarse Sand	✓	
	340	375	Coarse Sand + Clay		

Received JUL 12 1978
Department of Water Resources
Western Regional Office

10. Work started 2/14/78 finished ~~5/17/78~~

11. DRILLERS CERTIFICATION
Firm Name Middleton Pump Co. Firm No. 260
Address Middleton, Id. Date 12/4/78
Signed by (Firm Official) Harold Wheyer
and (Operator) Harold Wheyer

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

12

Form 238-7
1/94

IDA. DEPARTMENT OF WATER RESOU CES

WELL DRILLER'S REPORT

Use Typewriter
or
Ball Point Pen

1. DRILLING PERMIT NO. 63-94-W-0489 - 000
Other IDWR No.

2. OWNER:
Name GEORGE WINJE
Address HC34/MAYFIELD STG.52
City BOISE State ID Zip 83706

3. LOCATION OF WELL by legal description:
Sketch map location must agree with written location.

N / W / E / S

Twp. 1 North ☒ or South ☐
Rge. 4 East ☒ or West ☐
Sec. 29 1/4 (10 acres) SW 1/4 (40 acres) SE 1/4 (160 acres)
Gov't Lot ____ County ADA

Address of Well Site
ORCHARD/MAYBER EXIT City
(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 Material	From	To	AMOUNT Sacks or Pounds	METHOD
BENT	0	18	2S	OVERBORE

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

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
6"	+1	46	250	STEEL	☒	☐	☒	☐
					☐	☐	☐	☐
					☐	☐	☐	☐

Length of Headpipe ____ Length of Tailpipe ____

9. PERFORATIONS/SCREENS
☐ Perforations Method
☐ Screens Screen Type MICROFILMED

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

FEB 08 1995

10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:
NO ft. below ground Artesian pressure lb.
Depth flow encountered ____ ft. Describe access port or control devices:

11. WELL TESTS:
☐ Pump ☐ Bailer ☐ Air ☐ Flowing Artesian

Yield gal./min.	Drawdown	Pumping Level	Time
NO		NO	NO

Water Temp. ____ Bottom hole temp.
Water Quality test or comments: 091183

12. LITHOLOGIC LOG: (Describe repairs or abandonment)

Bore Dia.	From	To	Remarks: Lithology, Water Quality & Temperature	Water Y	Water N
9"	0	1	TOPSOIL	NO	
9"	1	7	BLACK HARD LAVA	NO	
9"	7	12	YELLOW SOAP STONE	NO	
9"	12	18	BEIGE COARSE SANDSTONE	NO	
6"	18	25	BEIGE COARSE SANDSTONE	NO	
6"	25	30	BRN CLAY	NO	
6"	30	41	GRAY PEA GRAVEL	YES	
6"	41	46	BRN SOFT CLAY	NO	
6"	46	68	BLACK LAVA	NO	
6"	68	72	GRAY PACKED FINE SAND	NO	
6"	72	80	RUSTY BRN CLAY	NO	
6"	80	87	PACKED GRAY SAND COARSE	NO	
6"	87	95	BRN CLAY	NO	
6"	95	110	PACKED BRN COARSE SAND	NO	
6"	110	120	BRN CLAY	NO	
6"	120	130	BRN SANDY CLAY	NO	
6"	130	140	BRN CLAY	NO	
6"	140	150	PACKED BRN SAND	NO	
6"	150	160	BRN SAND	NO	
6"	160	162	BRN CLAY	NO	
6"	162	180	BRN COARSE SAND	NO	
6"	180	185	BRN CLAY	NO	
6"	185	202	BRN COARS SAND	NO	

RECEIVED
SEP 15 1994
Department of Water Resources

RECEIVED
JUN 21 1994
WATER RESOURCES
WESTERN REGION

Completed Depth 203 'FROM TOP OF CASING (Measurable)
Date: Started 6/8/94 Completed 6/10/94

13

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 S.O.S.WELLDRILLING Firm No. 212
Firm Official Frank Shuma Date 6-14-94
and
Supervisor or Operator Tony Hackett Date 6-14-94
(Sign once if Firm Official & Operator)

FORWARD WHITE COPY TO WATER RESOURCES

721744

Form 238-7
3/95-C96

IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

Office Use Only
Inspected by _____
Twp ____ Rge ____ Sec ____
____ 1/4 ____ 1/4 ____ 1/4
Lat: : : Long: : :

1. DRILLING PERMIT NO. 61 -96 -W -0054 -000
Other IDWR No. _____

2. OWNER:
Name Boise Stage Stop
Address I-84 Exit 71
City Boise State ID Zip 83709

3. LOCATION OF WELL by legal description:
Sketch map location must agree with written location

N / W / E / S

Twp. 1 North X or South ☐
Rge. 4 East X or West ☐
Sec. 29 1/4 (10 acres) SW 1/4 (40 acres) SE 1/4 (160 acres)
Gov't lot _____ County Ada
Lat: : : Long: : :
Address of Well Site I-84 Eixt 71
City Boise
(Give at least name of road + Distance to Road or Landmark)
Lt. _____ Blk. _____ Sub. Name _____

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

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

6. DRILL METHOD
X Air Rotary ☐ Cable ☐ Mud Rotary ☐ Other _____

7. SEALING PROCEDURES

SEAL/FILTER PACK			AMOUNT	METHOD
Material	From	To	Sacks or Pounds	
Bentonite	0	57	900 lbs	Overbore

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

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
8.625	3	57	250	Steel	X	☐	X	☐
					☐	☐	☐	☐
					☐	☐	☐	☐

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:
115 ft. below ground Artesian Pressure ____ lb
Depth flow encountered ____ ft. Describe access port or control devices: _____

11. WELL TESTS:
☐ Pump ☐ Bailer X Air ☐ Flowing Artesian

Yield gal/min.	Drawdown	Pumping Level	Time
3 gpm			

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

12. LITHOLOGIC LOG: (Describe repair or abandonment)

Bore Dia.	From	To	Remarks: Lithology, Water Quality & Temp.	Water Y	Water N
10.75	0	2	Top Soil		X
10.75	2	57	Sand		X
10-8	57	63	Gray Lava		X
8	63	66	Brown Cinder	X	
8	66	75	Gray Lava		X
8	75	80	Brown Cinder & Clay		X
8	80	140	Decomposed Granite		X

14

RECEIVED
JUN 25 2002
WATER RESOURCES
WESTERN REGION

Completed Depth: 130' (Measurable)
Date: Started 10-01-96 Completed 10-01-96

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 Hiddleston & Son, Inc. Firm No. 35
Firm Official _____ Date 6-18-02
Supervisor or Operator John Smith Date 10-26-96
(Sign once if Firm Official & Operator)

721745

Form 238-7
3/95-C96

IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

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

1. DRILLING PERMIT NO. 61 -96 -W -0055 -000
Other IDWR No. _____

2. OWNER:
Name Boise Stage Stop
Address I-84 Exit 71
City Boise State ID Zip 83709

3. LOCATION OF WELL by legal description:
Sketch map location must agree with written location

N
W [X] E
S

Twp. 1 North X or South ☐
Rge. 4 East X or West ☐
Sec. 29 1/4 (10 acres) SW 1/4 (40 acres) SE 1/4 (60 acres)
Gov't lot _____ County Ada
Lat: : : Long: : :
Address of Well Site I-84 Eixt 71
City Boise
(Give at least name of road + Distance to Road or Landmark)
Lt. _____ Blk. _____ Sub. Name _____

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

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

6. DRILL METHOD
X Air Rotary ☐ Cable ☐ Mud Rotary ☐ Other _____

7. SEALING PROCEDURES

SEAL/FILTER PACK Material	From	To	AMOUNT Sacks or Pounds	METHOD
Bentonite	0	56	900 lbs	Overbore

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

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
8.625	4	56	250	Steel	X	☐	X	☐
					☐	☐	☐	☐
					☐	☐	☐	☐

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:
115 ft. below ground Artesian Pressure ___ lb
Depth flow encountered ___ ft. Describe access port or control devices: _____

11. WELL TESTS:
☐ Pump ☐ Bailer Air ☐ Flowing Artesian

Yield gal/min.	Drawdown	Pumping Level	Time
N/A			

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

12. LITHOLOGIC LOG: (Describe repair or abandonment)

Bore Dia.	From	To	Remarks: Lithology, Water Quality & Temp.	Y	N
10.75	0	2	Top Soil		X
10.75	2	18	Sand & Seam Gravels		X
10.75	18	50	Sand		X
10.75	50	56	Tan Clay		X
10.75	56	70	Gray Lava & Black Clay		X
8	70	75	Brown Clay & Brown Cinders		X
8	75	85	Gray Lava		X
8	85	92	Gray Lava & Brown Cinders		X
8	92	115	Decomposed Granite		X
8	115	130	Green Sand Stone		X
8	130	150	Green & Brown Clay		X
8	150	180	Decomposed Granite & Clay Seams		X

15

RECEIVED
JUL 12 2002
WATER RESOURCES
WESTERN REGION

RECEIVED
JUN 25 2002
WATER RESOURCES
WESTERN REGION

Completed Depth: 180' (Measurable)
Date: Started 10-02-96 Completed 10-02-96

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 Hiddleston & Son, Inc. Firm No. 35
Firm Official Kenneth Hol Date 6-18-02
Supervisor or Operator John Smith Date 10-26-96
(Sign once if Firm Official & Operator)

721748

Form 238-7
3/95-C96

IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

Office Use Only
Inspected by _____
Twp ____ Rge ____ Sec ____
____ 1/4 ____ 1/4 ____ 1/4
Lat: : : Long: : :

1. DRILLING PERMIT NO. 61 -96 -W -0058 -000
Other IDWR No. _____

2. OWNER:
Name Boise Stage Stop
Address I-84 Exit 71
City Boise State ID Zip 83709

3. LOCATION OF WELL by legal description:
Sketch map location must agree with written location

N / W / E / S — X

Twp. 1 North X or South ☐
Rge. 4 East X or West ☐
Sec. 29 1/4 (10 acres) SW 1/4 (40 acres) SE 1/4 (160 acres)
Gov't lot _____ County Ada
Lat: : : Long: : :
Address of Well Site I-84 Eixt 71
City Boise
(Give at least name of road + Distance to Road or Landmark)
Lt. _____ Blk. _____ Sub. Name _____

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

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

6. DRILL METHOD
X Air Rotary ☐ Cable ☐ Mud Rotary ☐ Other _____

7. SEALING PROCEDURES

SEAL/FILTER PACK Material	From	To	AMOUNT Sacks or Pounds	METHOD
Bentonite	0	44.6	650 lbs	Overbore

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

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
8.625	2	44.6	250	Steel	X	☐	X	☐
4	-10	120	40	PVC	☐	X	☐	X
					☐	☐	☐	☐

Length of Headpipe 110' Length of Tailpipe 2"

9. PERFORATIONS/SCREENS
☐ Perforations Method _____
X Screens Screen Type Johnson

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
120	140	.020		4"	PVC	☐	X
						☐	☐
						☐	☐

10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:
80 ft. below ground Artesian Pressure ___ lb
Depth flow encountered ___ ft. Describe access port or control devices: _____

11. WELL TESTS:
☐ Pump ☐ Bailer X Air ☐ Flowing Artesian

Yield gal/min.	Drawdown	Pumping Level	Time
15 gpm			

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

12. LITHOLOGIC LOG: (Describe repair or abandonment)

Bore Dia.	From	To	Remarks: Lithology, Water Quality & Temp.	Water Y	Water N
10.75	0	2	Top Soil		X
10.75	2	44.6	Sand		X
10-8	44.6	62	Gray Lava		X
8	62	66	Brown Cinder & Gray Lava	X	
8	66	74	Gray Lava		X
8	74	80	Brown Cinder & Clay		X
8	80	160	Decomposed Granite		X

16

RECEIVED
JUN 25 2002
WATER RESOURCES
WESTERN REGION

Completed Depth: 140' (Measurable)
Date: Started 10-07-96 Completed 10-0896

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 Hiddleston & Son, Inc. Firm No. 35
Firm Official Kenneth Kah Date 6-18-02
Supervisor or Operator John Smith Date 10-21-96
(Sign once if Firm Official & Operator)

Form 238-7
3/95-C96

IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT 95988

Office Use Only	
Inspected by	
Twp	Rge Sec
1/4	1/4 1/4
Lat:	Long:

1. DRILLING PERMIT NO. 61-99-W-0024-000
Other IDWR No. D0009418

2. OWNER:
Name Boise Stage Stop
Address I-84 Exit 71
City Boise State ID Zip 83716

3. LOCATION OF WELL by legal description:
Sketch map location must agree with written location

N / W / E / S — X

Twp. 1 North X or South ☐
Rge. 4 East X or West ☐
Sec. 32 1/4 (10 acres) NE 1/4 (40 acres) NE 1/4 (160 acres)
Gov't lot ____ County Ada
Lat: ____ Long: ____
Address of Well Site ____
City Boise
(Give at least name of road + Distance to Road or Landmark)
Lt. ____ Blk. ____ Sub. Name ____

4. USE:
X Domestic ☐ Municipal ☐ Monitor ☐ Irrigation
☐ Thermal ☐ Injection ☐ Other ____

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

6. DRILL METHOD
X Air Rotary ☐ Cable ☐ Mud Rotary ☐ Other ____

7. SEALING PROCEDURES

SEAL/FILTER PACK Material	From	To	AMOUNT Sacks or Pounds	METHOD
Bentonite	0	54	1000 lbs	overbore

Was drive shoe used? X Y ☐ N Shoe Depth(s) ____
Was drive shoe seal tested? ☐ Y X N How? ____

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
8 5/8	+2	54	.250	Steel	X	☐	☐	☐
					☐	☐	☐	☐
					☐	☐	☐	☐

Length of Headpipe N/A Length of Tailpipe N/A

9. PERFORATIONS/SCREENS
☐ Perforations Method ____
☐ Screens Screen Type ____

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

10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:
40 ft. below ground Artesian Pressure ____ lb
Depth flow encountered ____ Describe access port or control devices: ____

11. WELL TESTS:
☐ Pump ☐ Bailer X Air ☐ Flowing Artesian

Yield gal/min.	Drawdown	Pumping Level	Time
20+			

Water Temp. ____ Bottom hole temp. ____
Water Quality test or comments: ____
Depth first Water Encountered ____

12. LITHOLOGIC LOG: (Describe repairs or abandonment)

Bore Dia	From	To	Remarks: Lithology, Water Quality & Temp.	Water Y	Water N
12	0	2	Top Soil	☐	X
12	2	16	Sand	☐	X
12	16	22	Tan Clay	☐	X
8	22	54	Decon Granite	☐	X
8	54	65	Gray Lava	☐	X
8	65	66	Gravels	X	☐

Completed Depth: 65' (Measurable)
Date: Started 5/17/99 Completed 5/17/99

RECEIVED
JUN 04 1999
WATER RESOURCES WESTERN REGION

17

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 Hiddleston & Son, Inc. Firm No. 35
Firm Official Ron Date 6/3/99
Supervisor or Operator John A Smith Date 5/31/99
(Sign once if Firm Official & Operator)

MICROFILMED
AUG 25 1999

Form 238-7
1/78

STATE OF IDAHO
DEPART 'T OF WATER RESOURCES

USE TYPEWRITER OR
LPOINT PEN

WELL DRILLER'S REPORT

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

RECEIVED
MAY 20 1982
Department of Water Resources
Western Regional Office

1. WELL OWNER

Name KING'S MEN (STREEPER Realty
Address Mtn Home, Id
Owner's Permit No. _____

2. NATURE OF WORK

☐ New well ☑ Deepened ☐ Replacement
☐ Abandoned (describe method of abandoning) _____

3. PROPOSED USE

☑ Domestic ☐ Irrigation ☐ Test ☐ Municipal
☐ Industrial ☐ Stock ☐ Waste Disposal or Injection
☐ Other _____ (specify type)

4. METHOD DRILLED

☑ Rotary ☑ Air ☐ Hydraulic ☐ Reverse rotary
☐ Cable ☐ Dug ☐ Other _____

5. WELL CONSTRUCTION

Casing schedule: ☑ Steel ☐ Concrete ☐ Other _____

Thickness	Diameter	From	To
.250 inches	6 5/8 inches	+ 1 feet	810 feet
_____ inches	_____ inches	_____ feet	_____ feet
_____ inches	_____ inches	_____ feet	_____ feet
_____ inches	_____ inches	_____ feet	_____ feet

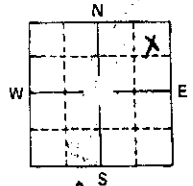
Was casing drive shoe used? ☑ Yes ☐ No
Was a packer or seal used? ☐ Yes ☑ No
Perforated? ☐ Yes ☑ No
How perforated? ☐ Factory ☐ Knife ☐ Torch
Size of perforation _____ inches by _____ inches

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 10 or 20 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 _____

6. LOCATION OF WELL

Sketch map location must agree with written location.



Subdivision Name _____
Lot No. _____ Block No. _____
County ADA
NE ¼ NE ¼ Sec. 32, T. 1 N/S, R. 4 E/W.

7. WATER LEVEL

Static water level 636 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 _____

8. WELL TEST DATA

☐ Pump ☐ Baller ☑ Air ☐ Other _____

Discharge G.P.M.	Pumping Level	Hours Pumped
20		2.0

9. LITHOLOGIC LOG 85689

Hole Diam.	Depth From	Depth To	Material	Water Yes	Water No
6	710	740	Clay & Fine Sand (CAVING)	✓	
5	740	805	SAND (COARSE) HOWING	✓	
5	805	807	COARSE SAND & GRAVEL	✓	
6	807	811	WHITE COARSE SAND & G	✓	

RECEIVED
MAY 17 1982
Department of Water Resources

18

10. Work started 26 APR 82 finished 7 May 82

11. DRILLERS CERTIFICATION dd

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

Firm Name Hiddestan Firm No. 35
Address Mountain Home Date 10 May 82
Signed by (Firm Official) Roy
and
(Operator) Dark

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

776954

Form 238-7
3/95-C96

IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

Office Use Only
Inspected by _____
Twp ____ Rge ____ Sec ____
____ 1/4 ____ 1/4 ____ 1/4
Lat: : : Long: : :

1. DRILLING PERMIT NO. __ - __ - __ - ____ ____
Other IDWR No. **D0019974**

2. OWNER:
Name **Boise Stage Stop – George Winge**
Address **I-84 Exit 71**
City **Boise** State **ID** Zip **83716**

3. LOCATION OF WELL by legal description:
Sketch map location must agree with written location

N
W E
S

Twp. **1** North **X** or South ☐
Rge. **4** East **X** or West ☐
Sec. **32** 1/4 (10 acres) **NW** 1/4 (40 acres) **NE** 1/4 (160 acres)
Gov't lot _____ County **Emore**
Lat: : : Long: : :
Address of Well Site **I-84 Exit 71**
City **Mtn Home**
(Give at least name of road – Distance to Road or Landmark)
Lt. _____ Blk. _____ Sub. Name _____

4. USE:
☐ Domestic ☐ Municipal ☐ Monitor ☐ Irrigation
☐ Thermal ☐ Injection X Other **Industrial**

5. TYPE OF WORK check all that apply (Replacement etc.)
☐ New Well ☐ Modify ☐ Abandonment X Other **Deepen**

6. DRILL METHOD
X Air Rotary ☐ Cable ☐ Mud Rotary ☐ Other _____

7. SEALING PROCEDURES

SEAL/FILTER PACK Material	From	To	AMOUNT Sacks or Pounds	METHOD
Bentonite	1	18		

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
6.625	+2	69	250	Steel	☐	X	X	☐
4	-10	130	Sch40	PVC	☐	X	☐	X
					☐	☐	☐	☐

Length of Headpipe **60'** Length of Tailpipe **10**

9. PERFORATIONS/SCREENS
☐ Perforations Method _____
☐ Screens Screen Type _____

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
70	120	020		4"	PVC	☐	X
						☐	☐
						☐	☐

10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:
58 ft. below ground Artesian Pressure ____ lb
Depth flow encountered ____ ft. Describe access port or control devices: _____

11. WELL TESTS:
☐ Pump ☐ Bailer X Air ☐ Flowing Artesian

Yield gal/min.	Drawdown	Pumping Level	Time
20			1 hr

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

12. LITHOLOGIC LOG: (Describe repair or abandonment)

Bore Dia.	From	To	Remarks: Lithology, Water Quality & Temp.	Water Y	Water N
6	67	89	Gravel		X
6	69	90	Gray Lava & Some Clay		X
6	90	104	Red Cinder & Quartz Sand		X
6	104	107	Quartz Sand		X
6	107	130	Quartz Sand & Some Clay		X
6	130		Fine Sand		X

(19)

RECEIVED
JUN 04 2002
WATER RESOURCES
WESTERN REGION

Completed Depth: 130' (Measurable)
Date: Started 5/30/02 Completed 5/31/02

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 **Hiddleston & Son, Inc.** Firm No. 35
Firm Official _____ Date _____
Supervisor or Operator _____ Date _____
(Sign once if Firm Official & Operator)

Form 238-7
9/82

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

MICROFILMED

USE TYPEWRITER OR POINT PEN

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.

9

1. WELL OWNER

Name Boise Stage Stop

Address

Owner's Permit No.

2. NATURE OF WORK

☑ New well ☐ Deepened ☐ Replacement
☐ Abandoned (describe abandonment procedures such as materials, plug depths, etc. in lithologic log)

3. PROPOSED USE

☑ Domestic ☐ Irrigation ☐ Test ☐ Municipal
☐ Industrial ☐ Stock ☐ Waste Disposal or Injection
☐ Other _____ (specify type)

4. METHOD DRILLED

☑ Rotary ☑ Air ☐ Hydraulic ☐ Reverse rotary
☐ Cable ☐ Dug ☐ Other

5. WELL CONSTRUCTION

Casing schedule: ☑ Steel ☐ Concrete ☐ Other

Thickness	Diameter	From	To
250 inches	8-5/8 inches	+ 2 feet	53 feet
inches	inches	feet	feet
inches	inches	feet	feet
inches	inches	feet	feet

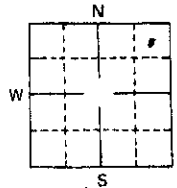
Was casing drive shoe used? ☑ Yes ☐ No
Was a packer or seal used? ☐ Yes ☑ No
Perforated? ☐ Yes ☑ No
How perforated? ☐ Factory ☐ Knife ☐ Torch
Size of perforation _____ inches by _____ inches

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 53 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

6. LOCATION OF WELL

Sketch map location must agree with written location.



Subdivision Name
Lot No. ___ Block No. ___
County Ada
NE ¼ NE ¼ Sec. 32, T. 1 N/S, R. 4 E/W.

7. WATER LEVEL

Static water level 34 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
Describe artesian or temperature zones below.

8. WELL TEST DATA

☐ Pump ☐ Bailer ☑ Air ☐ Other

Discharge G.P.M.	Pumping Level	Hours Pumped
20		2

9. LITHOLOGIC LOG

87169

Bore Diam.	Depth From	Depth To	Material	Water Yes	Water No
10	0	8	Soil + Hard Pan		
	8	35	Sand + Gravel		
	35	45	Sand + Clay		
	45	52	Clay		
10-8	52	65	Gray Lava		
8	65	69	Gray + Brown cinder	X	
	69	72	Gray Lava		
	72	74	Gray Lava clay + cinder		
	74	82	Gray Lava		
	82	83	Brown cinder		
	83	84	Gray Lava		
	84	88	Brown cinder + Clay		
	88	89	Red Clay		
	89	92	Sand		

RECEIVED
DEC 8 1986
Department of Water Resources

RECEIVED
MAR 11 1987
Department of Water Resources
Western Regional Office

Department of Water Resources

20

10.

Work started 11-7-86 finished 11-14-86

11. DRILLERS CERTIFICATION

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

Firm Name Middleton Drilling Firm No. 35
Address Mt Home Date 11-24-86
Signed by (Firm Official)
and
(Operator) Ken Rod

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

Form 238-7
11/97

IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

770361

Office Use Only
Inspected by _____
Twp ____ Rge ____ Sec ____
____ 1/4 ____ 1/4 ____ 1/4
Lat: : : Long: : :

1. WELL TAG NO. D 0020068
DRILLING PERMIT NO. ____
Other IDWR No. ____

2. OWNER:
Name Robert Bravo
Address 00000 South Orchard Street
City Boise State ID Zip 83716

3. LOCATION OF WELL by legal description:
Sketch map location must agree with written location.

N / W / E / S

Twp. 1 North ☒ or South ☐
Rge. 4 East ☒ or West ☐
Sec. 32 NW 1/4 (10 acres) NW 1/4 (40 acres) ____ 1/4 (160 acres)
Gov't Lot ____ County Ada
Lat: : : Long: : :
Address of Well Site ¼ mile behind Stage Stop
City Boise
(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/FILTER PACK Material	From	To	AMOUNT Sacks or Pounds	METHOD
Bentonite	0	20	15	overbore

Was drive shoe used? ☒ Y ☐ N Shoe Depth(s) 20
Was drive shoe seal tested? ☒ Y ☐ N How? Air test

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
6"	+1	20	250	steel	☒	☐	☒	☐
4¼	19	160		PVC	☐	☒	☐	☐
					☐	☐	☐	☐

Length of Headpipe ____ Length of Tailpipe ____

9. PERFORATIONS/SCREENS
Perforations Method ____
Screens Screen Type ____

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
19	160	40		4¼	PVC	☐	☒
						☐	☐
						☐	☐

10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:
24 ft. below ground Artesian pressure ____ lb.
Depth flow encountered ____ ft. Describe access port or control devices: Well Cap

11. WELL TESTS:
☐ Pump ☐ Bailer ☒ Air ☐ Flowing Artesian

Yield gal./min.	Drawdown	Pumping Level	Time
2	160		3hrs.

Water Temp. 65 Bottom hole temp. 65
Water Quality test or comments: Good
Depth first Water Encounter 56

12. LITHOLOGIC LOG: (Describe repairs or abandonment)

Bore Dia.	From	To	Remarks: Lithology, Water Quality & Temperature	Water Y	Water N
10"	0	3	overburden		X
10"	3	7	hard pan		X
10"	7	16	gravel		X
10"	16	26	clay		X
6"	26	56	lava		X
6"	56	68	cinders	X	
6"	68	100	decomposed granite		X
6"	100	110	red cinders		X
6"	110	123	decomposed granite		X
6"	123	140	clay		X
6"	140	160	granite		X

RECEIVED
AUG 15 2001
Department of Water Resources
RECEIVED
AUG 0 6 2001
WATER RESOURCES
WESTERN REGION

Completed Depth 160 (Measurable)
Date: Started 11/06/2000 Completed 11/10/2000

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 Ed L. Holder Drilling Firm No. 578
Firm Official Ed L. Holder Date 11/10/2000
and
Driller or Operator ____ Date ____
(Sign once if Firm Official & Operator)

2

FORWARD WHITE COPY TO WATER RESOURCES

Form 238-7
3/95-C96

L L 767235

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

IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

1. DRILLING PERMIT NO. __-__-__-____-____
Other IDWR No. D0015796

2. OWNER:
Name Tim Anderson
Address 4450 S. Timridge Way
City Boise State ID Zip 83716

3. LOCATION OF WELL by legal description:
Sketch map location must agree with written location

N
W X E
S

Twp. 1 North X or South ☐
Rge. 4 East X or West ☐
Sec. 33 1/4 10 acres SE 1/4 40 acres NE 1/4 160 acres
Gov't lot _____ County Ada
Lat: : : Long: : :
Address of Well Site 24601 S. Old Hwy 30
City Boise
(Give at least name of road + Distance to Road or Landmark)
Lt. _____ Blk. _____ Sub. Name _____

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

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

6. DRILL METHOD
X Air Rotary ☐ Cable ☐ Mud Rotary ☐ Other _____

7. SEALING PROCEDURES

SEAL/FILTER PACK Material	From	To	AMOUNT Sacks or Pounds	METHOD
Bentonite	0	18	800lbs	Overbore

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

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
6.625	+2	660	250	Steel	X	☐	X	☐
5.563	654	660	188	Steel	☐	X	X	☐
					☐	☐	☐	☐

Length of Headpipe 6' Length of Tailpipe N/A

9. PERFORATIONS/SCREENS
☐ Perforations Method _____
X Screens Screen Type Johnson

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
660	665	020		5.563	SS	☐	X
						☐	☐
						☐	☐

10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:
528ft. below ground Artesian Pressure _____ lb
Depth flow encountered _____ Describe access port or control devices: _____

11. WELL TESTS:
☐ Pump ☐ Bailer X Air ☐ Flowing Artesian

Yield gal/min	Drawdown	Pumping Level	Time
20		~650	1hr

Water Temp. _____ Bottom hole temp. _____
Water Quality test or comments: _____
Depth first Water Encountered 583'

12. LITHOLOGIC LOG: (Describe repairs or abandonment)

22

Bore Dia	From	To	Remarks: Lithology, Water Quality & Temp.	Water Y	Water N
10	0	2	Top soil		X
10	2	10	Tan sand		X
10-6	10	120	Sand & Clay seam		X
6	120	260	Sand & small gravels		X
6	260	583	Cemented sand & gravel		X
6	583	620	Fine sand	X	
6	620	630	Tan clay		X
6	630	665	Med. Sand	X	

RECEIVED
DEC 27 2000
Department of Water Res...

RECEIVED
DEC 12 2000
WATER RESOURCES
WESTERN REGION

Completed Depth: 665' (Measurable)
Date: Started 10/27/00 Completed 11/09/00

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 Hiddleston & Son, Inc Firm No. 35
Firm Official _____ Date 12-7-00
Supervisor or Operator _____ Date 12-7-00
(Sign once if Firm Official & Operator)

LD

8693 65 - 77205

Form 238-7
3/95-C96

IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

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

1. DRILLING PERMIT NO. __ - __ - __ - ____ - ____
Other IDWR No. D0019379

2. OWNER:
Name JIM PHAGAN
Address 4200 PASADENA DR. #30
City BOISE State ID Zip 83705

3. LOCATION OF WELL by legal description:
Sketch map location must agree with written location

N / W / E / S

Twp. 1 North ☒ or South ☐
Rge. 4 East ☒ or West ☐
Sec. 33 1/4 (10 acres) NE 1/4 (40 acres) NW 1/4 (160 acres)
Gov't lot _____ County ADA
Lat: : : Long: : :
Address of Well Site 23735 DESERT WIND
City BOISE
(Give at least name of road + Distance to Road or Landmark)
Lt. _____ Blk. _____ Sub. Name REGINA HEIGHTS

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	
BENTONITE	0	18	9 SACKS	OVERBORE

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	+2	560	250	ST	☒	☐	☒	☐
					☐	☐	☐	☐
					☐	☐	☐	☐

Length of Headpipe 10'8" Length of Tailpipe _____

9. PERFORATIONS/SCREENS
☐ Perforations Method _____
☒ Screens Screen Type telescoping

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
559	569	20		5"	ST ST	☐	☐
						☐	☐
						☐	☐

10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:
481 ft. below ground Artesian Pressure _____ lb
Depth flow encountered _____ ft. Describe access port or control devices: _____

11. WELL TESTS:
☐ Pump ☐ Bailer ☒ Air ☐ Flowing Artesian

Yield gal/min	Drawdown	Pumping Level	Time
17		560	2 HRS

Water Temp. _____ Bottom hole temp. _____
Water Quality test or comments: _____
Depth first Water Encountered 487

12. LITHOLOGIC LOG: (Describe repairs or abandonment)

23

Bore Dia	From	To	Remarks: Lithology, Water Quality & Temp.	Water Y	Water N
10	0	3	BROWN TOPSOIL		☒
10	3	14	BROWN SANDY CLAY		☒
10	14	18	TAN SANDY CLAY		☒
8	18	29	TAN SANDY CLAY		☒
8	29	57	BROWN CLAY, SAND & SMALL		
			GRAVEL		☒
8	57	81	BLACK LAVA		☒
8	81	212	TAN CLAY W/SAND		☒
8	212	244	STICKY TAN CLAY		☒
8	244	309	STICKY TAN CLAY W/STRIPS BROWN		
			SAND		☒
8	309	376	BROWN SAND W/SMALL STRIPS		
			TAN CLAY		☒
8	376	421	CEMENTED BROWN SAND		☒
8	421	480	STRIPS BROWN SAND & TAN CLAY		☒
6	480	487	STRIPS BROWN SAND & TAN CLAY		☒
6	487	511	FINE BROWN & CLEAR QUARTZ SAND	☒	
6	511	539	STICKY TAN CLAY		☒
6	539	541	VERY FINE BROWN & MICA SAND	☒	
6	541	545	DIRTY BROWN SAND & SOFT TAN		
			CLAY		☒
6	545	562	MEDIUM STICKY TAN CLAY		☒
6	562	572	COARSE CLEAR QUARTZ SAND &		
			PEA GRAVEL	☒	

RECEIVED
JAN 03 2002
WATER RESOURCES
WESTERN REGION

Completed Depth: 569 (Measurable)
Date: Started 11/12/01 Completed 11/17/01

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 SOS Welldrilling & Pump Co Firm No. 212
Firm Official Frank Skinner Date 12-5-01
Supervisor or Operator [signature] Date 12-28-01
(Sign once if Firm Official & Operator)

Date: 12/5/01 Time: 12:12 PM

USE TYPEWRITER OR BALL POINT PEN

State of Idaho
Department of Water Resources

RECEIVED
JUL 10 1978
Department of Water Resources

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.

24

1. WELL OWNER

Name BLACKIE STEWART

Address BOISE, IDAHO

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 6 inches Total depth 260 feet

Casing schedule: ☒ Steel ☐ Concrete

Thickness	Diameter	From	To
.250 inches	8 5/8 inches	+ 1 feet	16 feet
.250 inches	6 5/8 inches	2 feet	168 feet
_____ inches	_____ inches	_____ feet	_____ feet
_____ inches	_____ inches	_____ feet	_____ feet
_____ inches	_____ inches	_____ feet	_____ 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 1/4 inches by 3 inches

Number		From	To
15	perforations	135 feet	145 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 22 Material used in seal ☐ Cement grout ☒ Puddling clay ☒ Well cuttings

Seating procedure used ☐ Slurry pit ☐ Temporary surface casing ☒ Overbore to seal depth

6. LOCATION OF WELL

Sketch map location must agree with written location

63

N / W / E / S

Subdivision Name _____

Lot No. _____ Block No. _____

County ELMORE

SW ¼ NW ¼ Sec. 34, T. 1 N/S, R. 4 E/W

7. WATER LEVEL

Static water level 89 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 ☐ Bailer ☒ Other

Discharge G.P.M.	Draw Down	Hours Pumped
80		2

9. LITHOLOGIC LOG

042808

Hole Diam.	Depth From	Depth To	Material	Water Yes	Water No
8	0	8	SOIL		
8	8	16	DECOMPOSED GRANITE + CLAY		
8	16	42	DECOMPOSED GRANITE + CLAY + BOLDER	✓	
8	42	48	GRANITE BOLDER	✓	
8	48	72	DECOMPOSED GRANITE + BOLDER		
8-5/8	72	91	GRANITE		
8	91	92	DECOMPOSED GRANITE + CLAY		
8	92	168	GRANITE + DECOMPOSED GRANITE		
6	168	260	GRANITE + DECOMPOSED GRANITE	✓	

10.

Work started 4/29/78 finished 5/10/78

11. DRILLERS CERTIFICATION

USGS 35

Firm Name Hollister Drilling Firm No. _____

Address MT HOME, IDAHO Date 5/12/78

Signed by (Firm Official) _____

and

(Operator) Ken Kahl

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

/95-C96

25

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

IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

1. DRILLING PERMIT NO. 61-99-W-0059-000
Other IDWR No. D0012097

2. OWNER:
Name Ronald & Pamela Miller
Address HC 34 Mayfield Stage
City Boise State ID Zip 83716

3. LOCATION OF WELL by legal description:
Sketch map location must agree with written location

orm 2387

N

E

S

Twp. 1 North X or South ☐
Rge. 4 East X or West ☐
Sec. 34 1/4 (10 acres) SW 1/4 (40 acres) SE 1/4 (160 acres)

Gov't lot _____ County Elmore
Lat: : : Long: : :
Address of Well Site Mayfield Road
City Mayfield
(Give at least name of road + Distance to Road or Landmark)
Lt. _____ Blk. _____ Sub. Name _____

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

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

6. DRILL METHOD
☐ Air Rotary ☐ Cable X Mud Rotary ☐ Other _____

7. SEALING PROCEDURES

SEAL/FILTER PACK Material	From	To	AMOUNT Sacks or Pounds	METHOD
Bentonite	0	18	900 lbs	Overbore

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

8. CASING/LINER:

Diameter	From	To	Gauge	Materia	Casing	Liner	Welded	Threaded
5.438	+2	596	288	Steel	X	☐	X	☐
5.563	606	616	288	Steel	X	☐	X	☐
					☐	☐	☐	☐

Length of Headpipe _____ Length of Tailpipe _____

9. PERFORATIONS/SCREENS
☐ Perforations Method _____
☐ Screens Screen Type _____

From	To	Slot Size	Number	Diameter	Materia	Casing	Liner
596	606	020		5.563	SS	X	☐
						☐	☐
						☐	☐

10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:
450 ft. below ground Artesian Pressure _____ lb
Depth flow encountered _____ Describe access port or control devices: _____

11. WELL TESTS: 59137
☐ Pump ☐ Bailer X Air ☐ Flowing Artesian

Yield gal/min.	Drawdown	Pumping Level	Time

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

12. LITHOLOGIC LOG: (Describe repairs or abandonment)

25

Bore Dia	From	To	Remarks: Lithology, Water Quality & Temp.	Water Y	Water N
12	0	3	Top Soil		X
12	3	15	Hard Pan		X
12	15	18	Sand & Clay Seams		X
8	18	22	Tan Clay		X
8	22	257	Tan Sand & Clay Seams		X
8	257	260	Tan Clay		X
8	260	320	Brown Silt & Sand		X
8	320	400	Tan Clay & Some Sand		X
8	457	469	White Clay & Large Stone		X
8	469	471	Sand – 015		X
8	471	500	Tan Clay & Some Sand		X
8	500	520	White Clay & Some Sand		X
8	520	594	Tan Clay & Some Sand		X
8	594	610	White Clay & Some Sand		X
8	610	615	Medium Sand & White Clay		X
8	615	620	White Clay & Some Stone		X

MICROFILMED NOV 30 1999

RECEIVED OCT 13 1999 WATER RESOURCES WESTERN REGION

Completed Depth: 616 (Measurable)
Date: Started 9-18-99 Completed 9-23-99

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 Hiddleston & Son, Inc. Firm No. 35
Firm Official Mark S. Hiddleston Date 10/11/99
Supervisor or Operator John M. Smith Date _____
(Sign once if Firm Official & Operator)

L6

C

Form 238-7
3/95-C96

IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT 053590

Office Use Only
Inspected by
Twp ____ Rge ____ Sec ____
____ 1/4 ____ 1/4 ____ 1/4
Lat: : : Long: : :

1. DRILLING PERMIT NO. 61-99-W-0028-000
Other IDWR No. D0009421

2. OWNER:
Name Mary Botts
Address 5625 Baseline Rd.
City Boise State ID Zip 83617

3. LOCATION OF WELL by legal description:
Sketch map location must agree with written location

N / W / E / S — [X]

Twp. 1 North ☐ or South X
Rge. 4 East X or West ☐
Sec. 2 1/4 (10 acres) NE 1/4 (40 acres) NE 1/4 (160 acres)
Gov't lot ____ County Elmore
Lat: : : Long: : :
Address of Well Site 5625 Baseline Rd. - Tippanuk
City Boise
(Give at least name of road + Distance to Road or Landmark)
Lt. ____ Blk. ____ Sub. Name ____

4. USE:
X Domestic ☐ Municipal ☐ Monitor ☐ Irrigation
☐ Thermal ☐ Injection ☐ Other ____

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

6. DRILL METHOD
X Air Rotary ☐ Cable ☐ Mud Rotary ☐ Other ____

7. SEALING PROCEDURES

SEAL/FILTER PACK Material	From	To	AMOUNT Sacks or Pounds	METHOD
Bentonite	0	158	4000 lbs	Overbore

Was drive shoe used? ☐ Y X N Shoe Depth(s) ____
Was drive shoe seal tested? ☐ Y X N How? ____

8. CASING/LINER:

Diameter	From	To	Gauge	Materia	Casing	Liner	Welded	Threaded
8.625	+6"	158'	.250	STEEL	X	☐	X	☐
8.625	+2	523	.250	SS	X	☐	X	☐
5.563	523	537	.250	STEEL	☒	☐	☒	☐

Length of Headpipe 523' Length of Tailpipe 3'

9. PERFORATIONS/SCREENS
☐ Perforations Method ____
☐ Screens Screen Type ____

From	To	Slot Size	Number	Diameter	Materia	Casing	Liner
523	533	.020		5.563	SS	X	☐
						☐	☐
						☐	☐

10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:
310 ft. below ground
Depth flow encountered
Artesian Pressure ____ lb
Describe access port or control devices: ____

11. WELL TESTS:
☐ Pump ☐ Bailer X Air ☐ Flowing Artesian

Yield gal/min.	Drawdown	Pumping Level	Time
20+			

Water Temp. ____ Bottom hole temp. ____
Water Quality test or comments: ____
Depth first Water Encountered ____

26

12. LITHOLOGIC LOG: (Describe repairs or abandonment)

Bore Dia.	From	To	Remarks: Lithology, Water Quality & Temp.	Y	N
12"	0	2	Top Soil	☐	X
12"	2	10	Sandy Clay	☐	X
12"	10	138	Tan Sand & Clay Seam	☐	X
12-8	138	175	Brown Sand & Clay Seam	☐	X
8"	175	195	Sand Stone	☐	X
8"	195	210	Brown Clay	☐	X
8"	210	215	Sand & Clay Seam	☐	X
8"	215	290	Tan Clay & Sand Seam	☐	X
8"	290	312	Sand-10/20	☐	X
8"	312	330	Sand & Clay Seam	☐	X
8"	330	350	Coarse Sand	☐	X
8"	350	367	Clay & Sand Seam	☐	X
8"	367	400	Brown Clay & Sand Seam	☐	X
8"	400	462	Tan Clay & Sand Seam	☐	X
8"	462	465	Tan Clay & Some Pea Gravel	☐	X
8"	465	514	Light Tan Clay & Some Stone	☐	X
8"	514	522	Sand Stone	☐	X
8"	522	534	Coarse Sand	X	
8"	534	540	Ash Color Clay	☐	X

MICROFILMED OCT 13 1999

RECEIVED JUL - 1 1999 Department of Water

RECEIVED JUN 22 1999 WATER RESOURCES WESTERN REGION

Completed Depth: 537' (Measurable)
Date: Started 5-18-99 Completed 6-2-99

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 Hiddleston & Son, Inc. Firm No. 35
Firm Official ____ Date 6/17/99
Supervisor or Operator John Smith Date 6/17/99

188349

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

Form 238-7
3/95-C96

IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

1. DRILLING PERMIT NO. - - - -
Other IDWR No. D0025803

2. OWNER:
Name Dale Meeks
Address 977 N. Ethridge Pl
City Boise State ID Zip 83704

3. LOCATION OF WELL by legal description:
Sketch map location must agree with written location

N
W E
S

Twp. 1 North ☐ or South X
Rge. 4 East X or West ☐
Sec. 2 1/4 NE 1/4 NE 1/4
10 acres 40 acres 160 acres

Gov't lot _____ County Elmore
Lat: : : Long: : :
Address of Well Site Prairie Grass Rd. off baseline rd.
City Mtn Home
(Give at least name of road + Distance to Road or Landmark)
Lt. _____ Blk. _____ Sub. Name _____

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

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

6. DRILL METHOD
X Air Rotary ☐ Cable ☐ Mud Rotary ☐ Other _____

7. SEALING PROCEDURES

SEAL/FILTER PACK Material	From	To	AMOUNT Sacks or Pounds	METHOD
Bentonite	0	19	500 lbs	Overbore

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

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
6.625	+2	428	.250	Steel	X	☐	X	☐
					☐	☐	☐	☐
					☐	☐	☐	☐

Length of Headpipe N/A Length of Tailpipe _____

9. PERFORATIONS/SCREENS
☐ Perforations Method _____
X Screens Screen Type Johnson

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
429	434	.025		5"	SS	☐	☐
						☐	☐
						☐	☐

10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:
331 ft. below ground Artesian Pressure ___ lb
Depth flow encountered ___ ft. Describe access port or control devices: _____

11. WELL TESTS:
☐ Pump ☐ Bailer X Air ☐ Flowing Artesian

Yield gal/min	Drawdown	Pumping Level	Time
30			1

Water Temp. 60 Bottom hole temp. _____
Water Quality test or comments: _____
Depth first Water Encountered 409'

12. LITHOLOGIC LOG: (Describe repair or abandonment)

27

Bore Dia.	From	To	Remarks:Lithology, Water Quality & Temp.	Water Y	Water N
10	0	2	Top Soil		X
10	2	5	Cleache		X
10	5	15	Sand & Gravel		X
10	15	18	Tan Clay		X
6	18	22	Tan Clay		X
6	22	78	Tan Coarse Sand		X
6	78	83	Tan Clay		X
6	83	213	Coarse Sand		X
6	213	225	Brown Sandstone		X
6	225	290	Coarse Sand		X
6	290	409	Tan Sandy Clay		X
6	409	414	Coarse Sand	X	
6	414	421	Tan Sand w/ Clay Seams		X
6	421	434	Tan Sand	X	
6	434	435	Tan Clay		X

RECEIVED
NOV 13 2002
WATER RESOURCES
WESTERN REGION

Completed Depth: 434' (Measurable)
Date: Started 10-28-02 Completed 11-01-02

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 Hiddleston & Son, Inc. Firm No. 35
Firm Official Kevin Kuck Date 11-11-02
Supervisor or Operator Matt Hiddleston Date 11-11-02
(Sign once if Firm Official & Operator)

RECEIVED
JAN 0 2 2003

Form 238-7
3/95-C96

IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

Office Use Only
Inspected by _____
Twp ____ Rge ____ Sec ____
____ 1/4 ____ 1/4 ____ 1/4
Lat: : : Long: : :

1. DRILLING PERMIT NO. - - - - - -
Other IDWR No. D0025928

2. OWNER:
Name Rich Cornell
Address HC 87 Box 700
City Mtn Home State ID Zip 83647

3. LOCATION OF WELL by legal description:
Sketch map location must agree with written location

N
W [X] E
S

Twp. 1 North ☐ or South X
Rge. 4 East X or West ☐
Sec. 2 1/4 NW 1/4 NE 1/4
(10 acres) (40 acres) (160 acres)

Gov't lot County Elmore
Lat: : : Long: : :
Address of Well Site ½ mile off baseline rd.
City Mtn Home
(Give at least name of road + Distance to Road or Landmark)
Lt. _____ Blk. _____ Sub. Name _____

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

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

6. DRILL METHOD
X Air Rotary ☐ Cable ☐ Mud Rotary ☐ Other _____

7. SEALING PROCEDURES

SEAL/FILTER PACK Material	From	To	AMOUNT Sacks or Pounds	METHOD
Bentonite	0	19	600 lbs	Overbore

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

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
6.625	+2	383	.250	Steel	X	☐	X	☐
					☐	☐	☐	☐
					☐	☐	☐	☐

Length of Headpipe 5' Length of Tailpipe N/A

9. PERFORATIONS/SCREENS
☐ Perforations Method _____
X Screens Screen Type Johnson

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
385	390	.030		5"	SS	☐	☐
						☐	☐

10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:
300 ft. below ground Artesian Pressure ____ lb
Depth flow encountered ____ ft. Describe access port or control devices: _____

11. WELL TESTS:
☐ Pump ☐ Bailer X Air ☐ Flowing Artesian

Yield gal/min.	Drawdown	Pumping Level	Time
20			

Water Temp. 62 Bottom hole temp. _____
Water Quality test or comments: _____
Depth first Water Encountered 185

12. LITHOLOGIC LOG: (Describe repair or abandonment)

28

Bore Dia.	From	To	Remarks: Lithology, Water Quality & Temp.	Water X	Water N
10	0	2	Top Soil		X
10	2	10	Silty Sand		X
10	10	12	Big Sand & Gravel		X
10	12	19	Coarse Sand & Gravel		X
6	19	21	Tan Clay		X
6	21	88	Coarse Sand & Gravel		X
6	88	92	Brown Clay		X
6	92	165	Sand		X
6	165	185	Sandstone		X
6	185	250	Sand	X	
6	250	255	Tan Clay		X
6	255	380	Sand		X
6	380	382	Tan Clay		X
6	382	390	Coarse Sand	X	

Completed Depth: 390' (Measurable)
Date: Started 11-22-02 Completed 11-28-02

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 Hiddleston & Son, Inc. Firm No. 35
Firm Official [signature] Date 12-20-02
Supervisor or Operator Matt Hiddleston Date _____
(Sign once if Firm Official & Operator)

799883

Office Use Only
Inspected by _____
Twp ____ Rge ____ Sec ____
____ 1/4 ____ 1/4 ____ 1/4
Lat: : : Long: : :

Form 238-7
3/95-C96

IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

1. DRILLING PERMIT NO. - - - - ____ ____
Other IDWR No. D0029374

2. OWNER:
Name Jack Buchanan
Address 731 S. Prairie Grass Rd.
City Boise State ID Zip 83716

3. LOCATION OF WELL by legal description:
Sketch map location must agree with written location

N
W [X] E
S

Twp. 15 North ☐ or South X
Rge. 4 East X or West ☐
Sec. 2 1/4 SE 1/4 NE 1/4
10 acres 40 acres 160 acres
Gov't lot ____ ~~County Adu~~
Lat: : : Long: : :
Address of Well Site 731 S. Prairie Grass Rd.
City Boise
(Give at least name of road + Distance to Road or Landmark)
Lt. ____ Blk. ____ Sub. Name ____

4. USE:
X Domestic ☐ Municipal ☐ Monitor ☐ Irrigation
☐ Thermal ☐ Injection ☐ Other ____

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

6. DRILL METHOD
X Air Rotary ☐ Cable ☐ Mud Rotary ☐ Other ____

7. SEALING PROCEDURES

SEAL/FILTER PACK			AMOUNT	METHOD
Material	From	To	Sacks or Pounds	
Bentonite	0	18	700 lbs	Overbore

Was drive shoe used? X Y ☐ N Shoe Depth(s) ____
Was drive shoe seal tested? ☐ Y X N How? ____

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
6.625	+2	469	.250	Steel	X	☐	X	☐
					☐	☐	☐	☐
					☐	☐	☐	☐

Length of Headpipe 20' Length of Tailpipe N/A

9. PERFORATIONS/SCREENS
☐ Perforations Method ____
X Screens Screen Type Johnson

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
471	476	.020		5"	SS	☐	☐
451	471	N/A		5"	Steel		X
						☐	☐

10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:
331 ft. below ground Artesian Pressure ____ lb
Depth flow encountered ____ ft. Describe access port or control devices: ____

11. WELL TESTS:
☐ Pump ☐ Bailer X Air ☐ Flowing Artesian

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

Water Temp. ____ Bottom hole temp. ____
Water Quality test or comments: ____
Depth first Water Encountered ____

29

12. LITHOLOGIC LOG: (Describe repair or abandonment)

Bore Dia	From	To	Remarks: Lithology, Water Quality & Temp.	Water Y	Water N
10"	0	2	Top Soil		X
10"	2	7	Cleache		X
10"	7	16	Tan Sand W/ Gravel		X
10"	16	18	Tan Clay		X
6"	18	22	Tan Clay		X
6"	22	80	Tan Coarse Sand		X
6"	80	83	Tan Clay		X
6"	83	217	Coarse Sand		X
6"	217	227	Brown SandStone		X
6"	227	460	Tan Sand w/ Clay Seams		X
6"	460	476	Coarse Tan Sand & Gravel	X	

RECEIVED
JUN 0 2 2003
WATER RESOURCES
WESTERN REGION

Completed Depth: 476' (Measurable)
Date: Started 4-28-03 Completed 5-5-03

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 Hiddleston & Son, Inc. Firm No. 35
Firm Official [signature] Date 5-27-03
Supervisor or Operator Matt Hiddleston Date ____
(Sign once if Firm Official & Operator)

30 16170

Form 238-7
3/95-C96

IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

Office Use Only
Inspected by _____
Twp ____ Rge ____ Sec ____
____ 1/4 ____ 1/4 ____ 1/4
Lat: : : Long: : :

1. DRILLING PERMIT NO. ___ - ___ - ___ ____ ____
Other IDWR No. D0015631

2. OWNER:
Name Glen & Janet Jorgensen
Address 1386 N. Little Creek
City Meridian State ID Zip 83642

3. LOCATION OF WELL by legal description:
Sketch map location must agree with written location

N / W / E / S — X

Twp. 1 North ☐ or South X
Rge. 4 East X or West ☐
Sec. 2 1/4 (10 acres) SW 1/4 (40 acres) SW 1/4 (160 acres)
Gov't lot ____ County Elmore
Lat: : : Long: : :
Address of Well Site Base Line Rd.
City Mtn Home
(Give at least name of road + Distance to Road or Landmark)
Lt. ____ Blk. ____ Sub. Name ____

4. USE:
X Domestic ☐ Municipal ☐ Monitor ☐ Irrigation
☐ Thermal ☐ Injection ☐ Other ____

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

6. DRILL METHOD
X Air Rotary ☐ Cable ☐ Mud Rotary ☐ Other ____

7. SEALING PROCEDURES

SEAL/FILTER PACK Material	From	To	AMOUNT Sacks or Pounds	METHOD
Bentonite	0	18	800 lbs	Overbore

Was drive shoe used? X Y ☐ N Shoe Depth(s) ____
Was drive shoe seal tested? ☐ Y X N How? ____

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
6.625	+2	608	250	Steel	X	☐	X	☐
5.563	602	608	.188	Steel	☐	X	X	☐
5.563	618	633	188	Steel	☐	X	X	☐

Length of Headpipe 6' Length of Tailpipe 15'

9. PERFORATIONS/SCREENS
☐ Perforations Method ____
X Screens Screen Type Johnson

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
608	618	.010		5.563	SS	☐	X
						☐	☐
						☐	☐

10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:
388 ft. below ground Artesian Pressure ____ lb
Depth flow encountered ____ ft. Describe access port or control

11. WELL TESTS:
☐ Pump ☐ Bailer X Air ☐ Flowing Artesian

Yield gal/min.	Drawdown	Pumping Level	Time
20			

Water Temp. ____ Bottom hole temp. ____
Water Quality test or comments: ____
Depth first Water Encountered 500

12. LITHOLOGIC LOG: (Describe repairs or abandonment)

Bore Dia	From	To	Remarks: Lithology, Water Quality & Temp.	Water Y	Water N
10	0	2	Top Soil		X
10	2	18	Sandy Clay		X
6	18	120	Tan Sand & Clay Seams		X
6	120	175	Brown Sand & Clay		X
6	175	200	Sand Stone		X
6	200	290	Tan Clay & Sand Seam		X
6	290	400	Tan Sand & Clay Seams		X
6	400	465	Tan Clay & Sand Seams		X
6	465	500	Tan Sand & Clay Seam		X
6	500	510	Coarse Sand – Rusty	X	
6	510	540	Tan Clay & Sand Seam		X
6	540	551	Brown Clay		X
6	551	620	Gray Sand	X	
6	620	633	Gray Sand & Hard Clay Seam		X

RECEIVED
DEC 27 2000
Department of Water Resources

RECEIVED
DEC 12 2000
WATER RESOURCES
WESTERN REGION

Completed Depth: 633 (Measurable)
Date: Started 11-09-00 Completed 11-17-00

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 Hiddleston & Son, Inc. Firm No. 35
Firm Official [signature] Date 12/6/00
Supervisor or Operator John Smith Date 12-7-00
(Sign once if Firm Official & Operator)

31

810178

Office Use Only
Inspected by _____
Twp ____ Rge ____ Sec ____
____ 1/4 ____ 1/4 ____ 1/4
Lat: : : Long: : :

Form 238-7
3/95-C96

IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

1. DRILLING PERMIT NO. __-__-__-____-____
Other IDWR No. D0030779

2. OWNER:
Name Big View Builders
Address 5006 Man O War
City Nampa State ID Zip 83686

3. LOCATION OF WELL by legal description:
Sketch map location must agree with written location

N / W / E / S

Twp. 1 North ☐ or South ☒
Rge. 4 East ☒ or West ☐
Sec. ___ 1/4 (10 acres) SE 1/4 (40 acres) SW 1/4 (160 acres)

Gov't lot ____ County Elmore

Lat: : : Long: : :

Address of Well Site 1020 Desert Wind Rd
City Mountain Home,
(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/FILTER PACK Material	From	To	AMOUNT Sacks or Pounds	METHOD
Bentonite	0	20	12	overbore

Was drive shoe used? ☒ Y ☐ N Shoe Depth(s) 278
Was drive shoe seal tested? ☐ Y ☒ N How? ____

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
6"	+2	278	250	steel	☒	☐	☒	☐
5"	6~~4~~	491	188	steel	☐	☒	☒	☐
					☐	☐	☐	☐

Length of Headpipe ____ Length of Tailpipe ____

9. PERFORATIONS/SCREENS
☐ Perforations Method ____
☒ Screens Screen Type sand blocker

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
492	504	n/a	n/a	4"	stst	☐	☐
						☐	☐
						☐	☐

10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:
365 ft. below ground Artesian Pressure ____ lb
Depth flow encountered 485 ft. Describe access port or control devices: ____

11. WELL TESTS:
☒ Pump ☐ Bailer ☒ Air ☐ Flowing Artesian

Yield gal/min.	Drawdown	Pumping Level	Time
15	50	415	3 hrs

Water Temp. ____ Bottom hole temp. ____
Water Quality test or comments: ____
Depth first Water Encountered 408

12. LITHOLOGIC LOG: (Describe repairs or abandonment)

Bore Dia	From	To	Remarks: Lithology, Water Quality & Temp.	Water Y	Water N
10'	0	18	Sandy brown clay		☒
8	18	36	Sandy brown clay		☒
8	36	42	Cemented gravel		☒
8	42	185	Brown clay		☒
8	185	243	Brown clay w/ sand strips		☒
8	243	278	Black cinders		☒
8	278	408	Black lava		☒
8	408	485	Brown clay w/ sand strips	☒	
8	485	504	Coarse white sand & some gravel	☒	

RECEIVED
MAR 08 2004
WATER RESOURCES
WESTERN REGION

Completed Depth: 504 (Measurable)
Date: Started 01/12/04 Completed 02/15/04

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 Skinner&Son Well Drilling Firm No. 635
Firm Official ____ Date 3-2-04
Supervisor or Operator ____ Date 3-2-04
(Sign once if Firm Official & Operator)

Date: 3/2/04 Time: 3:50 PM

Form 238-7
6/89

DEPARTM... STATE OF IDAHO ...OF WATER RESOURCES

USE ... WRITER OR BA... JINT PEN

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.

32

1. WELL OWNER

Name Jerry Morton

Address Box 48 Mayfield Stage Boise

Owner's Permit No. 61-89-7-026 83707

2. NATURE OF WORK

☑ New well ☐ Deepened ☐ Replacement
☐ Well diameter increase
☐ Abandoned (describe abandonment procedures such as materials, plug depths, etc. in lithologic log)

3. PROPOSED USE

☑ Domestic ☐ Irrigation ☐ Test ☐ Municipal
☐ Industrial ☐ Stock ☐ Waste Disposal or Injection
☐ Other _____ (specify type)

4. METHOD DRILLED

☑ Rotary ☑ Air ☐ Hydraulic ☐ Reverse rotary
☐ Cable ☐ Dug ☐ Other _____

5. WELL CONSTRUCTION

Casing schedule: ☑ Steel ☐ Concrete ☐ Other _____

Thickness	Diameter	From	To
.250 inches	6 5/8 inches	+ 2 feet	584 feet
_____ inches	_____ inches	_____ feet	_____ feet
_____ inches	_____ inches	_____ feet	_____ feet
_____ inches	_____ inches	_____ feet	_____ feet

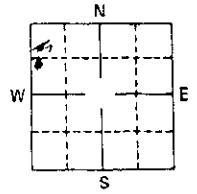
Was casing drive shoe used? ☒ Yes ☐ No
Was a packer or seal used? ☐ Yes ☒ No
Perforated? ☐ Yes ☒ No
How perforated? ☐ Factory ☐ Knife ☐ Torch ☐ Gun
Size of perforation _____ inches by _____ inches

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 50 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 _____

6. LOCATION OF WELL

Sketch map location must agree with written location.



Subdivision Name _____
Lot No. _____ Block No. _____
County Elmore
SW ¼ NW ¼ Sec. 34, T. 1 ☑ N ☐ S, R. 4 ☑ E ☐ W

7. WATER LEVEL

Static water level 460 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 _____
Describe artesian or temperature zones below.

8. WELL TEST DATA

☐ Pump ☐ Bailer ☑ Air ☐ Other _____

Discharge G.P.M.	Pumping Level	Hours Pumped
25		2

9. LITHOLOGIC LOG

Bore Diam.	Depth From	Depth To	Material	Water Yes	Water No
8"	0	10	Sand		✓
8"	10	28	Clay w/some sand		✓
8"-6"	28	260	Clay w/sand		✓
6"	260	510	Cemented sand & Gravel & Clay		✓
6"	510	583	fine sand (gray) w/very little gravel	X	
6"	583	586	sand & gravel	X	

RECEIVED
NOV 15 1989
Department of Water Resources

RECEIVED
DEC 03 1989
Department of Water Resources
Western Regional Office

MICROFILMED
JUN 05 1990

10. Work started 10-24-89 finished 11-11-89

11. DRILLERS CERTIFICATION

OL

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

Firm Name Hiddleston & Son, Inc Firm No. 35
Address Mt. Home, Id Date 11-12-89
Signed by (Firm Official) Mark S Hiddleston
and
(Operator) Mark S Hiddleston

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

Form 238-7
4/92

POOR QUALITY

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

RECEIVED
AUG 0 3 1993
Department of Water Resources

USE TYPEWRITER OR BALLPOINT PEN

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.

33

1. WELL OWNER
Name RONALD & ROSEANNA CASTLE
Address HC 85, BX 237 GRANDVIEW, ID 83624
Drilling Permit No. 61-93-C-0031-000
Water Right Permit No. 61-07683 (upon approval)

2. NATURE OF WORK NEW WELL
☐ New well ☐ Deepened ☐ Replacement
☐ Well diameter increase ☐ Modification
☐ Abandoned (describe abandonment or modification procedures such as liners, screen, materials, plug depths, etc. in lithologic log, section 9.)

3. PROPOSED USE NON-DOMESTIC
☐ Domestic ☐ Irrigation ☐ Monitor
☐ Industrial ☐ Stock ☐ Waste Disposal or Injection
☐ Other _____ (specify type)

4. METHOD DRILLED AIR&MUD ROTARY
☐ Rotary ☐ Air ☐ Auger ☐ Reverse rotary
☐ Cable ☐ Mud ☐ Other _____ (backhoe, hydraulic, etc.)

5. WELL CONSTRUCTION
Casing schedule: ☒ Steel ☐ Concrete ☐ Other _____

Thickness	Diameter	From	To
.25 inches	8 inches +	1 feet	490 feet
_____ inches	_____ inches	_____ feet	_____ feet
_____ inches	_____ inches	_____ feet	_____ feet

Was casing drive shoe used? ☐ Yes ☒ No
Was a packer or seal used? ☐ Yes ☒ No
Perforated? ☐ Yes ☒ No
How perforated? ☐ Factory ☐ Knife ☐ Torch ☐ Gun
Size of perforation? _____ inches by _____ inches

Number	From	To
_____ perforations	_____ feet	_____ feet
_____ perforations	_____ feet	_____ feet
_____ perforations	_____ feet	_____ feet

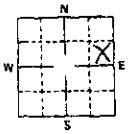
Well screen installed? ☐ Yes ☒ No
Manufacturer _____ Type _____
Top Packer or Headpipe _____
Bottom of Tailpipe _____

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 270 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 WELL CAP

6. LOCATION OF WELL
Sketch map location **must** agree with written location.



Subdivision Name _____
Lot No. _____ Block No. _____
County ELMORE
Address of Well Site HC 34 MAYFIELD STAGE BOX 100
(give at least name of road)
SE ¼ NE ¼ Sec. 5, T. 01S N ☐ or S ☐, R. 04E E ☐ or W ☐

7. WATER LEVEL
Static water level 338 feet below land surface.
Flowing? ☐ Yes ☒ No G.P.M. flow _____
Artesian closed-in pressure _____ p.s.i.
Controlled by: ☐ Valve ☐ Cap ☐ Plug
Temperature 65 °F. Quality Good
Describe artesian or temperature zones below.

8. WELL TEST DATA AIR
☐ Pump ☐ Bailer ☐ Air ☐ Other _____

Discharge G.P.M.	Pumping Level	Hours Pumped
30	335	1

081538

9. LITHOLOGIC LOG

Bore Diam.	Depth From	Depth To	Material	Water Yes	Water No
10"	0	5	CLEACHEY		X
	5	50	CLAY & DECOMPOSED GRANIT AND SAND mix		X
	50	60	SAND		X
	60	90	CLAY AND SAND MIXED		X
	90	170	BOULDERS & SAND		X
	170	225	CLAY, & SAND MIXED		X
	225	240	HARD GRANIT		X
	240	270	DECOMPOSED GRANIT		X
	270	275	BROWN CLAY		X
	275	330	DECOMPOSED GRANIT		X
	330	485	SAND		X
	485	497	CLAY		X
	497	510	LAVA ROCK	X	
8"	510	535	SWITCHED TO AIR ROTARY BROCKEN LAVA ROCK, & SOME ROUND LAVA	X	

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AUG 0 2 1993
Department of Water Resources
Western Regional Office
FEB 09 1994

10. Work started 7/8/93 finished 7/28/93

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

Firm Name PETE CORY DRILLING No. 213
Address 5505 W. CHINDEN Date 7/29/93
Signed by Drilling Supervisor Jerry Porter
and
(Operator) _____
(If different than the Drilling Supervisor)

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

Form 238-7
3/95

IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT 093344

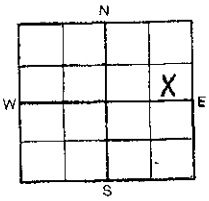
Use Typewriter or Ballpoint Pen

Office Use Only
Inspected by _____
Twp____ Rge____ Sec____
____1/4 ____1/4 ____1/4
Lat: : : Long: : :

1. DRILLING PERMIT NO. 61 - 96 - W - 10 - 100
Other IDWR No. 61-07683 Previous permit 61-93-C-0031-000

2. OWNER:
Name RONALD B & ROSANNA K CASTLE
Address HC 34 BOX 34-106
City BOISE State ID Zip 83706

3. LOCATION OF WELL by legal description:
Sketch map location must agree with written location.



Twp. 1 S North ☐ or South ☐
Rge. 4 E East ☐ or West ☐
Sec. 3 ____ 1/4 SE 1/4 NE 1/4
(10 acres / 40 acres / 160 acres)
Gov't Lot ____ County ELMORE
Lat: : : Long: : :
Address of Well Site HC 34 MAYFIELD STAGE
BOX 100 City MAYFIELD
(Give at least name of road + Distance to Road or Landmark)
Lt. ____ Blk. ____ Sub. Name ____

4. USE: NON-DOMESTIC MULTIPLY HOME DOMESTIC
☒ Domestic ☐ Municipal ☐ Monitor ☐ Irrigation
☐ Thermal ☐ Injection ☐ Other ____

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

6. DRILL METHOD AIR ROTARY
☒ Air Rotary ☐ Cable ☐ Mud Rotary ☐ Other ____

7. SEALING PROCEDURES

SEAL/FILTER PACK Material	From	To	AMOUNT Sacks or Pounds	METHOD
REFER TO FIRST WELL LOG				

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
REFER TO FIRST WELL LOG				0 TO 535	☐	☐	☐	☐
6"	+2	550	.250	STEEL	☒	☐	☒	☐
4.5"	498	678	40	PVC	☐	☒	☐	☒

Length of Headpipe ____ Length of Tailpipe ____

9. PERFORATIONS/SCREENS
☒ Perforations Method SKill SAW
☐ Screens Screen Type ____

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
578	678	1/8"	3 per ft	4.5"	PVC	☐	☒
						☐	☐
						☐	☐

10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:
435 ft. below ground Artesian pressure ____ lb.
Depth flow encountered ____ ft. Describe access port or control devices: WELL CAP

11. WELL TESTS:
☐ Pump ☐ Bailer ☒ Air ☐ Flowing Artesian

Yield gal./min.	Drawdown	Pumping Level	Time
40 GPM	N/A	616 FT	2 HRS

Water Temp. COLD Bottom hole temp. COLD
Water Quality test or comments: GOOD, CLEAR, NO SMELL
Depth first Water Encountered 629

12. LITHOLOGIC LOG: (Describe repairs or abandonment)

Bore Dia.	From	To	Remarks: Lithology, Water Quality & Temperature	Water Y	Water N
		0	TO 535 REFER TO FIRST WELL LOG		X
6"	535	550	CAVING LAVA ROCK		X
	550	565	LAVA & GRANITE		X
	565	570	BROWN CINDERS		X
	570	584	LAVA		X
	584	588	BROWN CINDERS		X
	588	597	LAVA ROCK		X
	597	609	GREEN GRANITE		X
	609	618	WHITE & GREEN GRANITE W/ LAVA		X
	618	619	GRAY GRANITE		X
	619	629	WHITE GRANITE W/ LAVA	X	
	629	638	BROWN CINDERS	X	
	638	670	BRN CINDERS FINE & CRS SND	X	
	670	678	LAVA ROCK & SAND		

RECEIVED
MAY 30 1996
Department of Water Resources
RECEIVED
MAY 22 1996
WATER RESOURCES
WESTERN REGION
AUG 21 1996

Completed Depth 678 FEET (Measurable)
Date: Started [redacted] 4/10/96 Completed [redacted] 4-25-96

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 PETE COPE DRILLING CO., INC. Firm No. 213
Firm Official [signature] Date 5/16/96
and
Supervisor or Operator ____ Date ____
(Sign once if Firm Official & Operator)

FORWARD WHITE COPY TO WATER RESOURCES

8 14181

Office Use Only
Inspected by
Twp Rge Sec
1/4 1/4 1/4
Lat: Long:

Form 238-7
3/95-C96

IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

1. DRILLING PERMIT NO 874817 - 789255
Other IDWR No. D0025927 CPS# 1675

2. OWNER:
Name Williams Pipeline West
Address 5821 Industrial Way
City American Falls State ID Zip 83202

3. LOCATION OF WELL by legal description:
Sketch map location must agree with written location

N
W [X] E
S

Twp. 1 North ☐ or South X
Rge. 4 East X or West ☐
Sec. 7 1/4 (10 acres) NW 1/4 (40 acres) NE 1/4 (160 acres)
Gov't lot ____ County Ada
Lat: ____ Long: ____
Address of Well Site Exit 71. ¼ mile from Compressor Station (Give at least name of road + Distance to Road or Landmark) City Boise
Lt. ____ Blk. ____ Sub. Name ____

4. USE:
☐ Domestic ☐ Municipal ☐ Monitor ☐ Irrigation
☐ Thermal ☐ Injection X Other Cathodic

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

6. DRILL METHOD
X Air Rotary ☐ Cable ☐ Mud Rotary ☐ Other ____

7. SEALING PROCEDURES

SEAL/FILTER PACK Material	From	To	AMOUNT Sacks or Pounds	METHOD
Bentonite	0	18	1200 lbs	Overbore
Coke	300	500	206	Overbore

Was drive shoe used? ☐ Y X N Shoe Depth(s) ____
Was drive shoe seal tested? ☐ Y X N How? ____

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
10.750	0	74	.365	Steel	X	☐	X	☐
8.625	125	500	.322	Steel	☐	X	X	☐
					☐	☐	☐	☐

Length of Headpipe N/A Length of Tailpipe N/A

9. PERFORATIONS/SCREENS
X Perforations Method Trochs
☐ Screens Screen Type ____

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
300	100	.250	80	4	Steel	☐	☐
						☐	☐
						☐	☐

10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:
-0- ft. below ground
Depth flow encountered ____ ft.
Artesian Pressure ____ lb
Describe access port or control devices: ____

11. WELL TESTS:
☐ Pump ☐ Bailer ☐ Air ☐ Flowing Artesian

Yield gal/min.	Drawdown	Pumping Level	Time

Water Temp. ____ Bottom hole temp. ____
Water Quality test or comments: ____
Depth first Water Encountered ____

35

12. LITHOLOGIC LOG: (Describe repair or abandonment)

Bore Dia.	From	To	Remarks: Lithology, Water Quality & Temp.	Water Y	Water N
14"	0	8	Top Soil		X
14"	8	18	Sand		X
10.75	18	74	Sand & Clay Seam		X
10.75	74	300	Gray Lava		X
10.75	300	500	Decomposed Granite		

RECEIVED
FEB 07 2003
WATER RESOURCES
WESTERN REGION

Completed Depth: 500' (Measurable)
Date: Started 11-26-02 Completed 1-23-03

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 Hiddleston & Son, Inc. Firm No. 35
Firm Official [signature] Date 2-4-03
Supervisor or Operator John H Smith Date 2-4-03
(Sign once if Firm Official & Operator)

USE TYPEWRITER OR BALL POINT PEN

Dep. of Sta ho Administration

WELL DRILLER'S REPORT

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

Received 6-27-73

1. WELL OWNER

Name JOHN WEIMER

Address

Owner's Permit No.

2. NATURE OF WORK

☒ New well ☐ Deepened ☐ Replacement

☐ Abandoned (describe method of abandoning)

3. PROPOSED USE

☐ Domestic ☐ Irrigation ☐ Test

☐ Municipal ☐ Industrial ☒ Stock

4. METHOD DRILLED

☒ Cable ☐ Rotory ☐ Dug ☐ Other

5. WELL CONSTRUCTION

Diameter of hole 8 inches Total depth 695 feet

Casing schedule: ☒ Steel ☐ Concrete

Thickness	Diameter	From	To
[redacted] inches	10" inches	[redacted] feet	290 feet
3/16 inches	8" inches	0 feet	603 feet
3/16 inches	6" inches	665 feet	695 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	693 feet	695 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 290 feet

Material used in seal ☒ Cement grout ☒ Puddling clay

6. LOCATION OF WELL

Sketch map location must agree with written location.

61

N / W / E / S

County Ada

NE ¼ SE ¼ Sec. 7 T. 1S N/S, R. 4E E/W

7. WATER LEVEL

Static water level 540 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 ☒ Bailer ☐ Other

Discharge G.P.M.	Draw Down	Hours Pumped
25	12'	15 BAILED

028862

9. LITHOLOGIC LOG

Hole Diam.	Depth From	Depth To	Material	Water Yes	Water No
10"	0	3	TOP SOIL		X
10"	3	51	SANDY CLAY		X
10"	51	80	COURSE SAND GRAVEL		X
10"	80	84	SOFT LAVA		X
10"	84	102	VERY HARD BLK. LAVA		X
10"	102	136	LAVA GRAY NOT SO HARD		X
10"	136	138	RED CLAY		X
10"	138	168	GRAY LAVA HARD		X
10"	168	173	RED AND BLK. CINDERS		X
10"	173	180	HARD GRAY LAVA		X
10"	180	206	RED LAVA		X
10"	206	235	BLK LAVA HARD		X
10"	235	254	RED LAVA		X
10"	254	322	GRAVEL AND BRN CLY.		X
8"	322	345	SANDY GRAVEL		X
8"	345	400	SANDY CLAY		X
8"	400	502	DRY SAND		X
8"	502	570	SANDY CLAY GRAVEL		X
8"	570	640	SANDY CLAY	X	
8"	[redacted]	[redacted]			
8"	640	665	BLUE CLAY	X	
8"	665	673	FINE SAND	X	
6"	673	695	COURSE SAND GRAVEL	X	

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10. Work started 27 APRIL finished JUNE 8th

11. DRILLER'S CERTIFICATION USGS

This well was drilled under my supervision and this report is true to the best of my knowledge.

Russel Coure

Driller's or Firm's Name Number

Boise

Address

Signed By Date

USE ADDITIONAL SHEETS IF NECESSARY FORWARD THE WHITE, BLUE, AND PINK COPIES TO THE DEPARTMENT

CORRECTED 9479S

Form 238-7
3/95-C96

IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

Office Use Only
Inspected by
Twp Rge Sec
1/4 1/4 1/4
Lat: Long:

1. DRILLING PERMIT NO. 61-98-W-0059-000
Other IDWR No. D0007514

2. OWNER:
Name Jim Hisel
Address Mayfield Stage, HC-34
City Boise State ID Zip 83706

3. LOCATION OF WELL by legal description:
Sketch map location must agree with written location

N / W / E / S

Twp. 1 North ☐ or South ☒
Rge. 4 East ☒ or West ☐
Sec. 10 1/4 (10 acres) SE 1/4 (40 acres) SE 1/4 (160 acres)
Gov't lot ____ County Elmore
Lat: ____ Long: ____
Address of Well Site Mayfield Stage, HC-34
City Boise
(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/FILTER PACK			AMOUNT	METHOD
Material	From	To	Sacks or Pounds	
Bentonite	2'	40+'	16	Overbore

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'	541	250	Steel	☒	☐	☒	☐
4.5"	532'	542'	Sc40	PVC	☐	☐	☐	☐
					☐	☐	☐	☐

Length of Headpipe ____ Length of Tailpipe ____

9. PERFORATIONS/SCREENS
☒ Perforations Method saw
☐ Screens Screen Type ____

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
539'	542'		80	4.5"	PVC	☐	☐
						☐	☐
						☐	☐

10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:
350ft. below ground Artesian Pressure ____ lb
Depth flow encountered ____ ft. Describe access port or control devices: ____

11. WELL TESTS:
☐ Pump ☐ Bailer ☒ Air ☐ Flowing Artesian

Yield gal/min	Drawdown	Pumping Level	Time
10		400'	1hr
40		520'	1hr
50		540'	1hr

Water Temp. ____ Bottom hole temp. ____
Water Quality test or comments: ____
Depth first Water Encountered 358'

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12. LITHOLOGIC LOG: (Describe repairs or abandonment)

Bore Dia.	From	To	Remarks: Lithology, Water Quality & Temp.	Water Y	Water N
10"	0'	1'	brown top soil		☒
10"	1'	2'	lt brown hardpan		☒
10"	2'	8'	coarse brown sand		☒
10"	8'	18'	brown sandy clay		☒
10"	18'	20'	coarse brown sand		☒
8"	20'	205'	brown clay/coarse sand strips		☒
8"	205'	225'	browen brown & black granite		☒
8"	225'	307'	brown & white granite		☒
8"	307'	328'	cemented quartz sand		☒
8"	328'	358'	white & clear granite		☒
8"	358'	396'	brown clay w/sand strips	☒	
6"	396'	410'	coarse white & brown sand		☒
6"	410'	422'	brown clay		☒
6"	422'	432'	coarse white sand	☒	
6"	432'	453'	lt brown clay w/small cracks		☒
6"	453'	464'	hard brown clay		☒
6"	464'	467'	coarse brown sand	☒	
6"	467'	484'	lt brown sand w/sm. cracks		☒
6"	484'	501'	dirty brown sand w/clay strips		☒
6"	501'	532'	brown clay w/small cracks		☒
6"	532'	538'	grey clay w/grey sand		☒
6"	538'	542'	grey clay		☒
6"	542'	545'	blue/grey & white sand	☒	

RECEIVED
MAR 26 1999
WATER RESOURCES
WESTERN REGION

RECEIVED
MAR 30 1999
Department of Water Resources

Completed Depth: 542 (Measurable)
Date: Started 09-16-98 Completed 09-23-98

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 SOS Welldrilling & Pump Co Firm No. 212
Firm Official ____ Date 3-24-99
Supervisor or Operator ____ Date 3/24/99
(Sign once if Firm Official & Operator)

Date: 03/24/99 Time: 12:30 PM

MICROFILMED
JUN 08 1999

Form 238-7
1/78

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

USE TYPEWRITER OR BALL POINT PEN

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.

38

1. WELL OWNER

Name ED DIENES

Address MT. HOME

Owner's Permit No. –

2. NATURE OF WORK

☑ New well ☐ Deepened ☐ Replacement
☐ Abandoned (describe method of abandoning) _____

3. PROPOSED USE

☑ Domestic ☐ Irrigation ☐ Test ☐ Municipal
☐ Industrial ☐ Stock ☐ Waste Disposal or Injection
☐ Other _____ (specify type)

4. METHOD DRILLED

☑ Rotary ☑ Air ☐ Hydraulic ☐ Reverse rotary
☐ Cable ☐ Dug ☐ Other _____

5. WELL CONSTRUCTION

Casing schedule: ☑ Steel ☐ Concrete ☐ Other _____

Thickness	Diameter		From	To
.250 inches	8"	inches +	1 feet	340 feet
.250 inches	6"	inches	1 feet	360 feet
_____ inches	_____	inches	_____ feet	_____ feet
_____ inches	_____	inches	_____ feet	_____ 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 40 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 _____

6. LOCATION OF WELL 61

Sketch map location must agree with written location.

N / W / E / S

Subdivision Name –
Lot No. – Block No. –
County ELMORE
NW ¼ NE ¼ Sec. 11, T. 1 N(S) R. 4 E(W).

7. WATER LEVEL

Static water level 140 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 _____

8. WELL TEST DATA

☐ Pump ☐ Bailer ☑ Air ☐ Other _____

Discharge G.P.M.	Pumping Level	Hours Pumped
27	–	3

9. LITHOLOGIC LOG

Hole Diam.	Depth From	Depth To	Material	Water Yes	Water No
8	0	340	SAND & CLAY		✓
6	340	362	SAND & CLAY		✓
	362	543	LAVA	✓	

RECEIVED
JAN 3 1980
Department of Water Resources
Western Regional Office

10. Work started 6-6-79 finished 6-27-79

11. DRILLERS CERTIFICATION

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

Firm Name H2O Well Drilling Firm No. 303
Address 11917 HIGHLAND ER Date 9-1-79
Signed by (Firm Official) Bruce Y Connolly
and
(Operator) Bruce Y Connolly

MICROFILMED

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

KENNY OWINGS WELL, MAYFIELD, ELMORE CO.

Samples washed and described by Jim Braendle, Geology student, BSU
April, 1980

(39 Pg 1)

300' Coarse quartz and feldspar sands, <5% dark rock chips

330' Fine to medium (½mm), quartz, feldspar
3-5% dark rock chips

360' Medium sand, quartz, feldspar, some pale brown clay-sized material

390' Very coarse sand w/rock chips ranging to ~7 mm (siltstone)

403' Fine quartz/feldspar sands w/approx. 15% clumps of dark yellowish brown clay

434' Poorly sorted quartz/feldspar sand mostly medium sand but w/some (chips?) ranging to 7 mm. Traces iron stain on some grains

465' Medium sand qtz and feldspar, traces iron oxide

496' Coarse grained sand, mostly quartz, some feldspar. No dark chips, but some (< 5%) stained w/iron oxides. Plastic and organic matter abundant

525' Medium to coarse qtz/feldspar sands, ~5% grains show stain from iron oxides. 10% clumps of dk. yellowish brown clay

557' Medium grained qtz & feldspar sand, shows considerable (10%) iron staining. Large amount of organic matter found in sample.

586' Coarse grained sand (qtz/feldspars), occasional larger stone (½") Also contains some balls of dusky brown mud ~10%

618' Very small sample mostly organic matter and fine mud. Some medium sand and some rock chips...dark grey (~5%)

648' Medium sand (qtz, feldspar, muscovite), large amount of organic matter.

678' Fine to medium sand primarily qtz. Some feldspar, muscovite, dark chips (1%)

708' Fine to medium qtz and feldspar sand w/occasional chips up to 3/8"

801' Coarse to very coarse sand, qtz & feldspar. small amount (<5%) dusky brown clay in chunks. (Snailshell found in sample) (Some plastic wrap found in sample)

832' Fine qtz/feldspar sand w/occasional grey rock chips

863' Very coarse to coarse sand, primarily quartz, feldspar ~10% of grains stained dark ~5% pieces dusky brown mud

894' Medium qtz. sand, sample contained mostly organic matter
Plastic wrap, etc., also large amount light grey clay & mud

960' Medium to fine sand qtz, feldspar, also muscovite. Also very fine light grey mud. Very small sample.

990'
1021' Cuttings available but not washed
Samples not yet logged S.H. Wood 9/80
1052'

39
pg 2

The above descriptions were made by Jim Braendle - not checked, but they look reasonable. S. H. Wood

Cuttings are available at BSU for examination.

Appendix B: Neil Helmick Well Pumping Test Results

September 17, 2005

Greg Johnson
Westpark Company
P.O. Box 344
Meridian, ID 83660

Subject: United Water Data - Neil Helmick Well

Dear Greg:

The data received from United Water Idaho for the Neil Helmick Well (i.e., Ken Agenbroad Well) are enclosed for your files. The data are summarized below.

1. Water quality from the well is excellent, with no parameters exceeding primary or secondary water quality standards. The water has a temperature of 73.5 degrees F, total dissolved solids of 193 mg/L, hardness of 60.4 mg/L (soft), and Langlier index of 0.12 (non-corrosive).

2. The Helmick Well is 763 feet, and is completed with 130 feet of 16-inch diameter steel shutter screens staggered between 500 and 752 feet. The well is gravel packed from 6 feet to 763 feet. A cement grout surface seal extends to 72 feet on the outside of a 20-inch surface.

3. Static water level on May 20, 1999 was 389 feet below ground surface.

4. The well was test pumped at 550 gpm for 6 hours on May 20, 1999 with 73 feet of drawdown, and an additional one hour at 795 gpm with 92 feet of drawdown. Based on projection of the pumping water level trend, the well can probably be operated continuously at a rate of 450 to 500 gpm without dewatering the uppermost well screens. If the uppermost well screen section (from 500 to 510 feet) were dewatered (likely resulting in cascading water), the well could potentially produce a higher yield. By dewatering the uppermost screen, an additional 100 feet of drawdown is possible.

5. The well produced sand during test pumping, but the sand content diminished to a non-detectable level after 150 minutes of continuous pumping.

6. Analysis of the test pumping water-level trend indicates an aquifer transmissivity of approximately 7,300 gpd/ft. This transmissivity value suggests that the aquifer

productivity or permeability is low to moderate. Aquifer transmissivity measured tests of wells in the Boise area is typically in the range of 10,000 to 30,000 gpd/ft.

7. A video survey of the well was conducted on May 10, 1999. My review of the video found that the screen slots appear to be open in most places, and the well casing looks to be in good condition. The video technician's notes suggest that the screens are plugged, but I believe his interpretation was based on the side-view appearance of the shutter screen, rather than the more appropriate downward view.

Review of the data suggests that wells of moderate productivity (400 gpm to 800 gpm) can likely be developed for the Mayfield Springs planned community. Pumping water levels will be 500 feet or more. The water quality is expected to be adequate for public water system use.

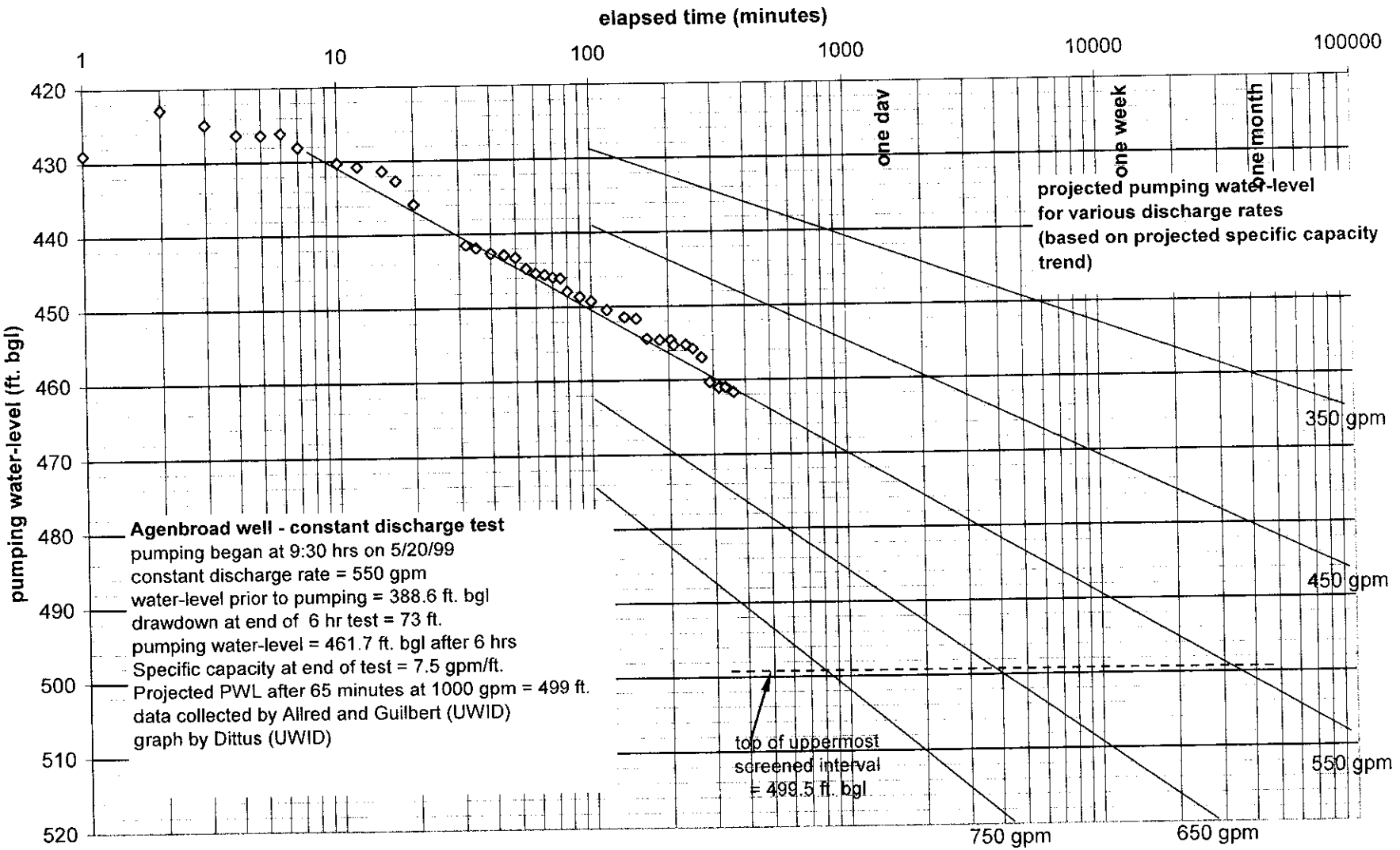
Please contact me with any questions.

Sincerely,

Terry M. Scanlan, P.E., P.G.

File: 329.0050

Agenbroad well - constant discharge test



Appendix D: Neil Helmick Well Water Quality

Alchem Laboratories, Inc.
104 West 31st Street
Boise, Idaho 83714
Phone (208) 336-1172
FAX (208) 336-7124

Water, Wastewater and Soil Analysis

LABORATORY REPORT

UNITED WATER
P.O. BOX 7488
BOISE, IDAHO 83707-1488

ATTENTION: ED SQUIRES
SOURCE -: AGENBROAD

DATE COLLECTED - - -05/20/1999
TIME COLLECTED - - -15:30
DATE RECEIVED - - - 05/20/1999
DATE REPORTED - - - 06/10/1999
SUBMITTED :

LAB SAMPLE NUMBER - 64919

Results reported unless noted: (Chemistry Analysis as mg/l) (Bacteria as organisms/100 ml)

ANALYSIS	RESULTS	DATE ANALYZED	ANALYST
ANTIMONY by FURNACE	<0.002	06/02/1999	PM
ARSENIC	0.007	06/01/1999	PM
BARIUM	<0.10	06/01/1999	PM
BERYLLIUM	<0.0002	06/01/1999	PM
CADMIUM	<0.0005	06/01/1999	PM
CHROMIUM	<0.002	06/01/1999	PM
CYANIDE, TOTAL	<0.005	06/03/1999	SD
FLUORIDE	0.51	05/26/1999	CE
MERCURY	<0.0002	06/09/1999	MM
NICKEL	<0.003	06/01/1999	PM
NITRATE as N	<0.10	05/21/1999	HG
NITRITE as N	<0.01	05/20/1999	NH
SELENIUM by GRAPHITE	<0.005	06/09/1999	pm
SODIUM	24.3	06/01/1999	PM
SULFATE	8.26	05/21/1999	HG
THALLIUM GRAPHITE	<0.0006	06/07/1999	PM
CHLORIDE	2.63	05/21/1999	HG
COLOR	<1.0	05/20/1999	HG
IRON	0.19	06/01/1999	PM
IRON (DISS.)	0.14	06/01/1999	PM
SULFIDE	<0.05	05/21/1999	CE
MANGANESE	0.02	06/01/1999	PM
MANGANESE (DISS.)	0.02	06/01/1999	PM
ODOR	1.0	05/20/1999	HG
SURFACTANT	<0.025	05/21/1999	PM
TOTAL DISS. SOLIDS	193.0	05/25/1999	NH
ZINC	0.016	06/01/1999	PM

Continued on next page

Alchem Laboratories, Inc.
104 West 31st Street
Boise, Idaho 83714
Phone (208) 336-1172
FAX (208) 336-7124
Water, Waste Water and Soil Analysis

LABORATORY REPORT

continued

UNITED WATER
P.O. BOX 7488
BOISE, IDAHO 83707-1488

ATTENTION: ED SQUIRES
SOURCE -: AGENBROAD

DATE COLLECTED - - -05/20/1999
TIME COLLECTED - - -15:30
DATE RECEIVED - - - 05/20/1999
DATE REPORTED - - - 06/10/1999
SUBMITTED :

LAB SAMPLE NUMBER - 64919

Results reported unless noted: (Chemistry Analysis as mg/l) (Bacteria as organisms/100 ml)

ANALYSIS	RESULTS	DATE ANALYZED	ANALYST
SILVER	<0.02	06/01/1999	PM
ALUMINUM	0.02	06/01/1999	PM
ALKALINITY	142.0	05/28/1999	CE
AMMONIA as N	0.06	06/04/1999	SQ
CALCIUM as CaCO3	56.6	06/01/1999	PM
HARDNESS	60.4	06/01/1999	PM
MAGNESIUM	0.91	06/01/1999	PM
POTASSIUM	1.20	05/28/1999	MM
SILICA	17.7	05/25/1999	MM
LEAD GRAPHITE	<0.002	05/25/1999	PM
COPPER	0.18	06/01/1999	PM
CORROSIVITY	0.12	06/02/1999	JD
CONDUCTIVITY (umhos/cm)	225.0	05/20/1999	NM
SUSPENDED SOLIDS	<1.0	05/25/1999	NM
pH (SU)	8.10	05/20/1999	TK

COMMENTS: FIELD pH = 8.23, FIELD COND = 201uS/cm, FIELD TEMP= 73.5 F
CORROSIVITY: THE WATER IS NON-AGGRESSIVE ACCORDING TO THE LANGLIER INDEX.
HARDNESS = 60.4 = 3.6 GRAINS PER GALLON = SOFT

Suzanne Howell, Laboratory Manager

Alchem Laboratories, Inc.
104 West 31st Street
Boise, Idaho 83714
Phone (208) 336-1172
FAX (208) 336-7124
Water, Waste Water and Soil Analysis

RECEIVED
JUL 20 1999
UNITED WATER

DRINKING WATER RADIOLOGICAL ANALYSIS REPORT

PWS	CONTAMINANT	RESULT mg/L	RESULT pCi/L	90 % Confidence Interval (± 1.65σ)	MCL	MDL	METHOD
4002	GROSS ALPHA		0.2		15.0		900.0
4100	GROSS BETA		1.8		50.0		900.0
4XXX	URANIUM (measure if gross alpha exceeds 15 pCi/L: activity in pCi/L = 0.68 x concentration in ug/L)						908.1
4000	ADJUSTED GROSS ALPHA (subtract uranium activity level from gross alpha)						
4020	RADIUM 226 [measure if gross alpha plus 90% confidence interval (1.65σ) is greater than 5 pCi/L]				3.0		903.1
4030	RADIUM 228 (measure if radium 226 exceeds 3 pCi/L)						904.0
4010	TOTAL MEASURED RADIUM (sum of Radium 226 & Radium 228)				5.0		
4100	BETA / PHOTON ACTIVITY (measure major constituents if activity exceeds 50 pCi/L)				4mREM		

NAME OF WATER SYSTEM : AGENBROAD WELL

COMPOSITE SAMPLE DATES:
1st quarterly sample:
2nd quarterly sample:
3rd quarterly sample:
4th quarterly sample:

COMMENTS:
Analyzed by Idaho Bureau of Labs, Boise, Idaho

Lab Supervisor Signature Date

PWS #	
LAB SAMPLE #	64917
DATE COLLECTED	05/20/99
SAMPLE TYPE	PLANT TAP
DATE RECEIVED	05/20/99
TIME COLLECTED	15:30 HRS
LOCATION TAG #	
COLLECTION LOCATION	INDIAN CREEK
DATE REPORTED	07/09/99
JURISDICTION	
PWS CONTACT PHONE #	362-7332

REPORT RESULTS TO:

UNITED WATER
ATTN: ED SQUIRES
P.O. BOX 7488
BOISE, IDAHO 83707

ALCHEM LABORATORIES

Alchem Laboratories, Inc.

104 West 31st Street
Boise, Idaho 83714

Phone (208) 336-1172
FAX (208) 336-7124

Water, Waste Water and Soil Analysis

PUBLIC DRINKING WATER LABORATORY ANALYSIS REPORT

VOLATILE ORGANIC CONTAMINANTS - METHOD 502.2

FRDS	COMPOUND (MCL) (ug/L)	MDL (ug/L)	RESULT (ug/L)	FRDS	COMPOUND (MCL) (ug/L)	MDL (ug/L)	RESULT (ug/L)
	REGULATED COMPOUNDS						
2990	Benzene (5.0)	0.5	ND	2987	Tetrachloroethylene (5.0)	0.5	ND
2982	Carbon Tetrachloride (5.0)	0.5	ND	2378	1,2,4-Trichlorobenzene (70.0)	0.5	ND
2977	1,1 - Dichloroethylene (7.0)	0.5	ND	2981	1,1,1 - Trichloroethane (200.0)	0.5	ND
2380	cis - 1,2 Dichloroethene (70.0)	0.5	ND	2985	1,1,2 - Trichloroethane (5.0)	0.5	ND
2979	trans-1,2 Dichloroethene (100.0)	0.5	ND	2984	Trichloroethylene (5.0)	0.5	ND
2980	1,2 - Dichloroethane (5.0)	0.5	ND	2991	Toluene (1000.0)	0.5	ND
2983	1,2 - Dichloropropane (5.0)	0.5	ND	2976	Vinyl Chloride (2.0)	0.2	ND
2968	o - Dichlorobenzene (600.0)	0.5	ND	2955	Xylenes - Total (10,000.0)	0.5	ND
2969	p - Dichlorobenzene (75.0)	0.5	ND	2950	Trihalomethanes -Total (100.0)	1.0	ND
2964	Dichloromethane (5.0)	0.5	ND	2943	Bromodichloromethane	0.2	ND
2992	Ethylbenzene (700.0)	0.5	ND	2942	Bromoform	1.0	ND
2989	Monochlorobenzene (100.0)	0.5	ND	2941	Chloroform	0.2	ND
2996	Styrene (100.0)	0.5	ND	2944	Dibromochloromethane	0.5	ND
	UNREGULATED COMPOUNDS						
2993	Bromobenzene	0.5	ND	2416	2,2 - Dichloropropane	0.5	ND
2430	Bromochloromethane	0.5	ND	2410	1,1 - Dichloropropene	0.5	ND
2214	Bromomethane	2.0	ND	2413	cis - 1,3 - Dichloropropene	0.5	ND
2422	n - Butylbenzene	0.5	ND	2413	trans - 1,3 - Dichloropropene	0.5	ND
2428	sec - Butylbenzene	0.5	ND	2246	Hexachlorobutadiene	0.5	ND
2426	tert - Butylbenzene	0.5	ND	2994	Isopropylbenzene	0.5	ND
2216	Chloroethane	1.0	ND	2030	p - Isopropyltoluene	0.5	ND
2210	Chloromethane	0.5	ND	2248	Naphthalene	0.5	ND
2965	o - Chlorotoluene	0.5	ND	2998	n - Propylbenzene	0.5	ND
2966	p - Chlorotoluene	0.5	ND	2986	1,1,1,2 - Tetrachloroethane	0.5	ND
2408	Dibromomethane	4.0	ND	2988	1,1,2,2 - Tetrachloroethane	0.5	ND
2967	1,3 - Dichlorobenzene	0.5	ND	2420	1,2,3 - Trichlorobenzene	0.5	ND
2212	Dichlorodifluoromethane	0.5	ND	2218	Trichlorofluoromethane	0.5	ND
2978	1,1 - Dichloroethane	0.5	ND	2414	1,2,3 - Trichloropropane	0.5	ND
2412	1,3 - Dichloropropane	0.5	ND	2424	1,3,5 - Trimethylbenzene	0.5	ND
2931	1,2 - Dibromo-3-chloropropane	5.0	ND	2418	1,2,4 - Trimethylbenzene	0.5	ND
2946	1,2 - Dibromoethane	1.5	ND				

LAB RESULT REPORTING CODES:

ND = Not detected within sensivity of instrument

- - = No analysis performed for this contaminant

Numerical entry = Detection at level indicated

COMMENTS:

Lab Supervisor Signature

Date 5/26/99

REPORT RESULTS TO:

UNITED WATER
ATTN: ED SQUIRES
P.O. BOX 7488
BOISE, IDAHO 83707

WATER SYSTEM: **AGENBROAD WELL**

PWS #	
Lab Sample #	**64918**
Date Collected	**05/20/99**
Sample Type	**PLANT TAP**
Date Received	**05/20/99**
Time Collected	**15:30**
Sample Location	**INDIAN CREEK**
Location Tag #	
Analyst & Analysis Date	**G. HAGEN - 05/25/99**
Date Reported by Lab	**05/26/99**
Jurisdiction	
PWS Contact Phone	**208-362-7332**

ALCHEM LABORATORIES

Alchem Laboratories, Inc.
104 West 31st Street
Boise, Idaho 83714
Phone (208) 336-1172
FAX (208) 336-7124
Water, Waste Water and Soil Analysis

RECEIVED
JUN 21 1999
UNITED WATER

SYNTHETIC ORGANIC CHEMICAL ANALYSIS REPORT

REGULATED COMPOUNDS

FRDS#	COMPOUND (MCL) (ug/L)	MDL (ug/L)	RESULT (ug/L)	METHOD	FRDS#	COMPOUND (MCL) (ug/L)	MDL (ug/L)	RESULT (ug/L)	METHOD
2946	EDB (0.05)	0.01	ND	504.1	2031	Dalapon (200.0)	2.0	ND	552.1
2931	DBCP (0.2)	0.002	ND	504.1	2041	Dinoseb (7.0)	0.2	ND	515.2
2051	Alachlor (2.0)	0.2	ND	525.2	2326	PCP (1.0)	0.05	ND	515.2
2050	Atrazine (3.0)	0.1	ND	525.2	2040	Picloram (500.0)	0.1	ND	515.2
2037	Simazine (4.0)	0.1	ND	525.2	2105	2,4-D (70.0)	0.1	ND	515.2
2959	Chlordane (2.0)	0.20	ND	508	2110	2,4,5-TP (50.0)	0.2	ND	515.2
2005	Endrin (2.0)	0.02	ND	508	2306	Benzo(a)pyrene (0.2)	0.04	ND	525.2
2065	Heptachlor (0.4)	0.04	ND	508	2035	Di(2-ethylhexyl)adipate (400.0)	0.6	ND	525.2
2067	Heptachlor Epoxide (0.2)	0.04	ND	508	2298	Di(2-ethylhexyl)phthalate (6.0)	0.6	ND	525.2
2274	Hexachlorobenzene (1.0)	0.1	ND	525.2	2046	Carbofuran (40.0)	1.0	ND	531.1
2042	Hexachlorocyclopentadiene (50.0)	0.1	ND	525.2	2036	Oxamyl (200.0)	2.0	ND	531.1
2010	Lindane (0.2)	0.04	ND	508	2034	Glyphosate (700.0)	6.0	ND	547
2015	Methoxychlor (40.0)	0.10	ND	508	2033	Endothall (100.0)	9.0	ND	548.1
2020	Toxaphene (3.0)	1.00	ND	508	2032	Diquat (20.0)	0.4	ND	549.1
2383	PCB's (0.5)	0.10	ND	508					

UNREGULATED COMPOUNDS

2076	Butachlor	0.1	ND	525.2	2047	Aldicarb	1.0	ND	531.1
2045	Metolachlor	0.1	ND	525.2	2044	Aldicarb Sulfone	0.5	ND	531.1
2595	Metribuzin	0.1	ND	525.2	2043	Aldicarb Sulfoxide	1.0	ND	531.1
2356	Aldrin	0.05	ND	508	2021	Carbaryl	1.0	ND	531.1
2070	Dieldrin	0.05	ND	508	2066	3-Hydroxycarbofuran	1.0	ND	531.1
2077	Propachlor	0.2	ND	525.2	2022	Methomyl	1.0	ND	531.1
2440	Dicamba	0.1	ND	515.2					

ANALYST	DATE	METHOD	ANALYST	DATE	METHOD
S. TANNER	05/22/99	504.1	S. TANNER	05/27/99	508
S. TANNER	06/04/99	515.2	B. BROKER	06/03/99	525.2
D. MYERS	06/15/99	531.1	D. MYERS	06/02/99	547
S. TANNER	05/26/99	548.1	D. MYERS	05/28/99	549.1
S. TANNER	06/09/99	552.1			

Lab result reporting codes:
- ND = Not detected within sensitivity of instrument
- - - = No analysis performed for this contaminant
- TR = Trace amount detected but so small it was not quantifiable
- Numerical entry = Detection of contaminant at level indicated

Comments:

Lab Supervisor Signature

Date 6/17/99

REPORT RESULTS TO:

UNITED WATER
ATTN: ED SQUIRES
P.O. BOX 7488
BOISE, IDAHO 83707

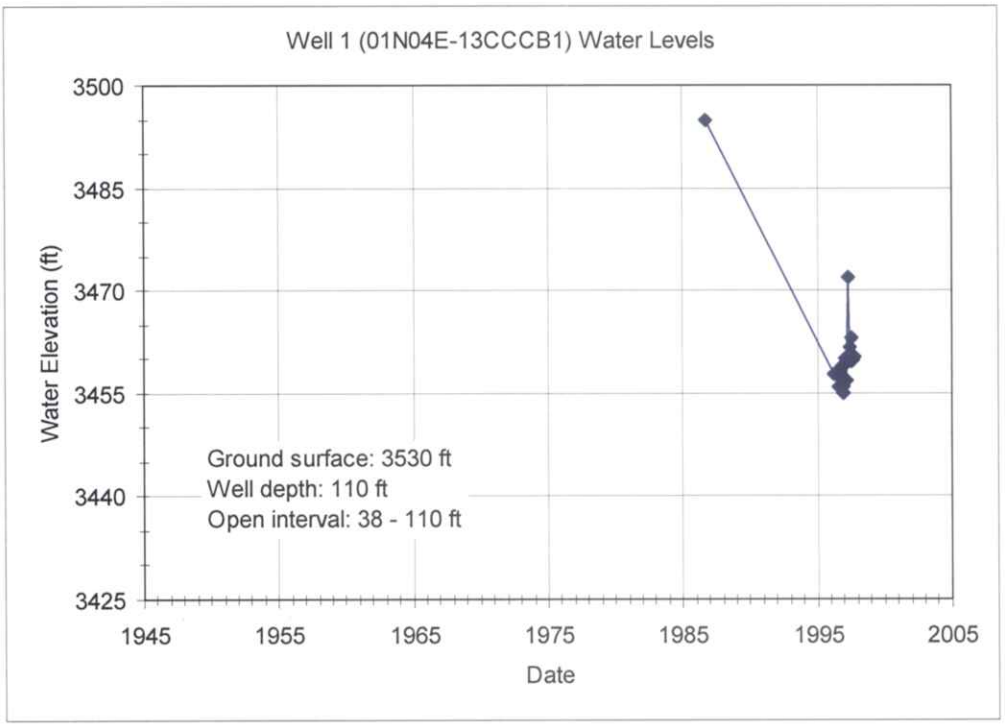
SAMPLE INFORMATION

PWS# : SYSTEM : **AGENBROAD WELL**
LAB SAMPLE # : **64918**
DATE COLLECTED : **05/20/99** TIME : **15:30 HRS**
SAMPLE TYPE : **PLANT TAP**
DATE RECEIVED BY LAB : **05/20/99**
COLLECTED BY :
SAMPLE LOCATION : **INDIAN CREEK**
LOCATION TAG # :
DATE REPORTED : **06/17/99**
JURISDICTION :
PWS CONTACT PHONE (208): **362-7332**

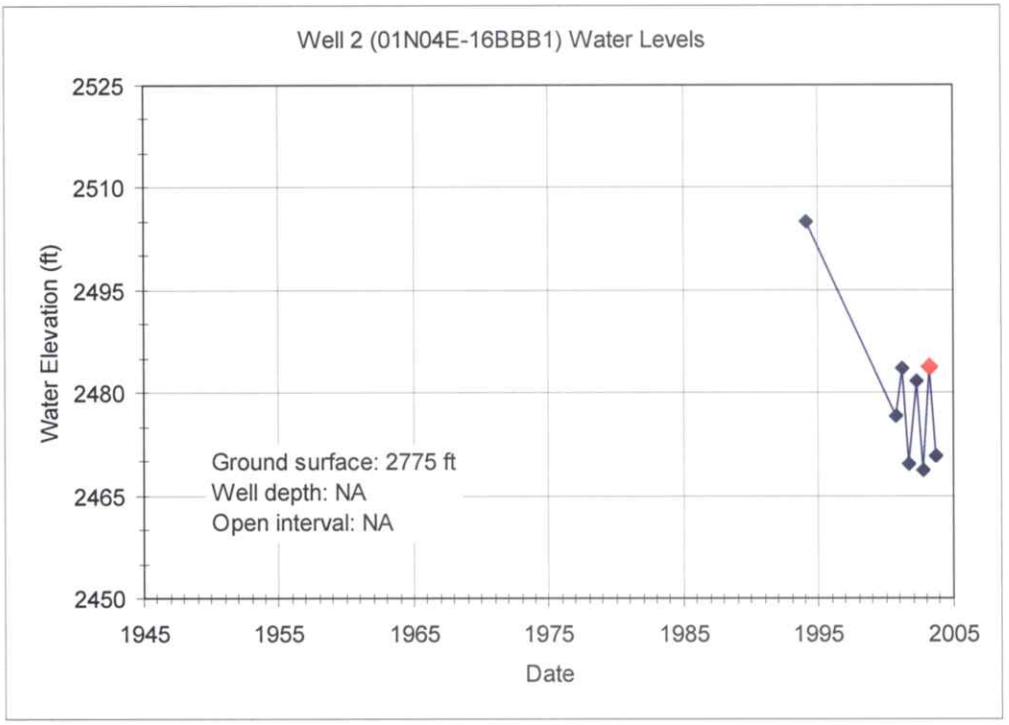
Appendix C: Water Levels (Hydrographs) for wells near Mayfield Springs

The following hydrographs are based on data maintained in the Idaho Department of Water Resources' Well_Log database.

Appendix B: Neil Helmick Well Pumping Test Results

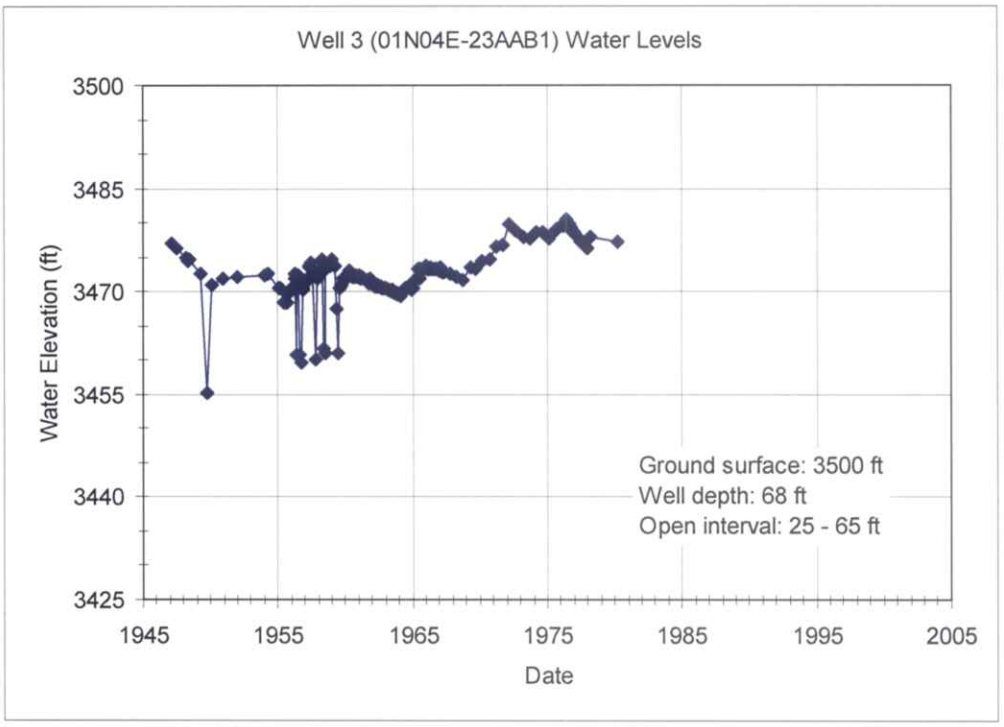


Well 1 (older measurements, stable water levels).

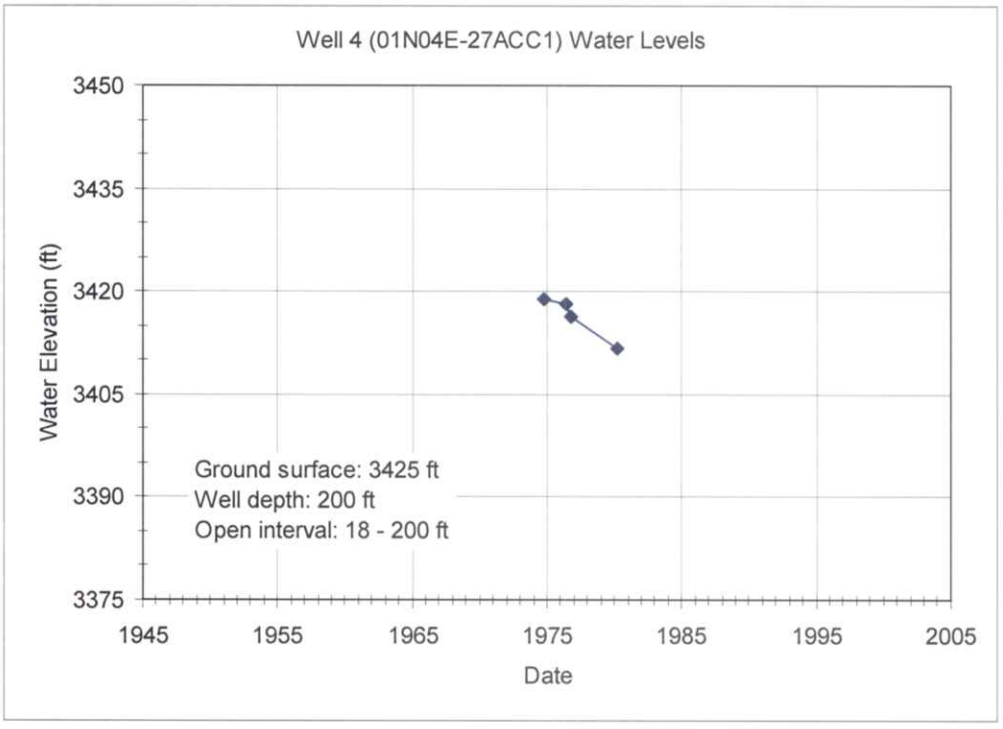


(Ground surface elevation may be incorrectly listed in IDWR database; accurate depth- to-water measurements are assumed).

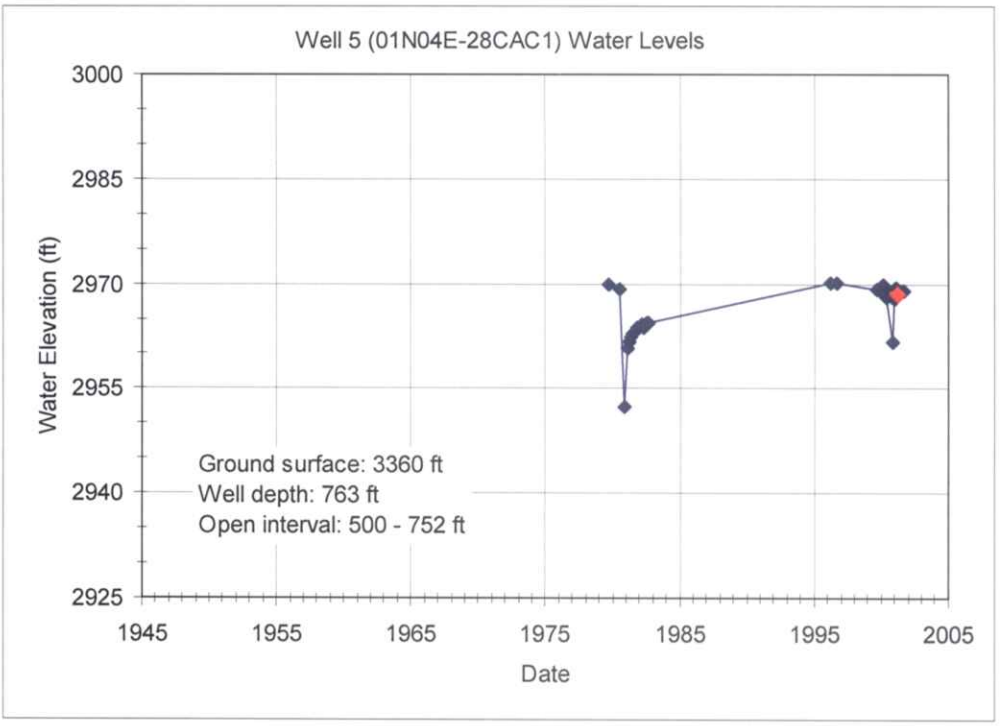
Well 2 (recent measurements, stable water levels).



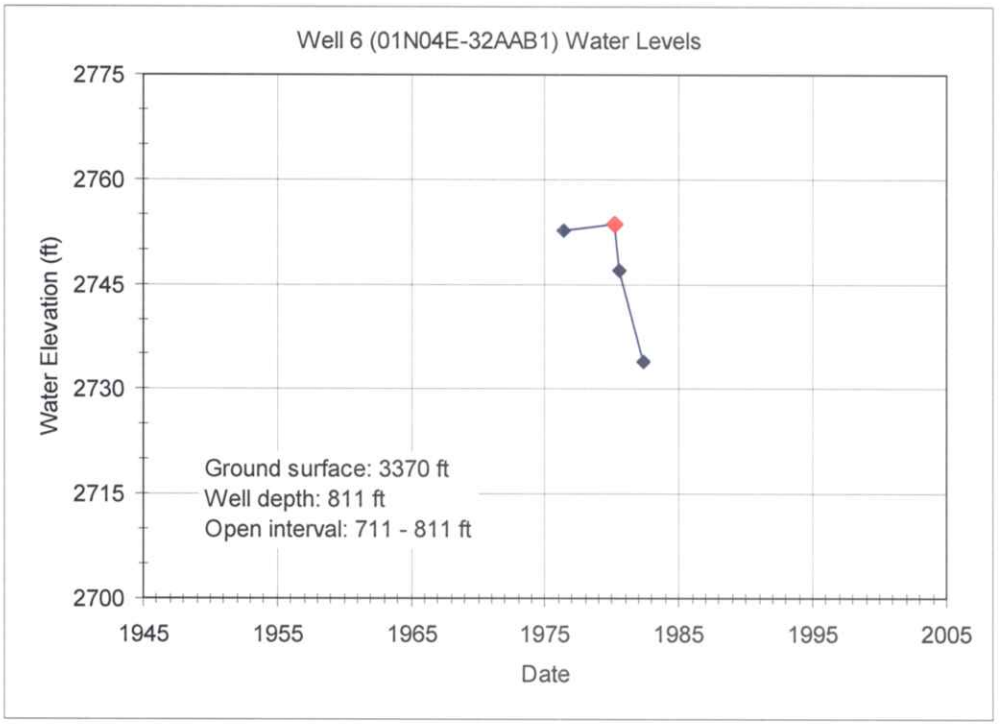
Well 3 (older measurements, stable water levels).



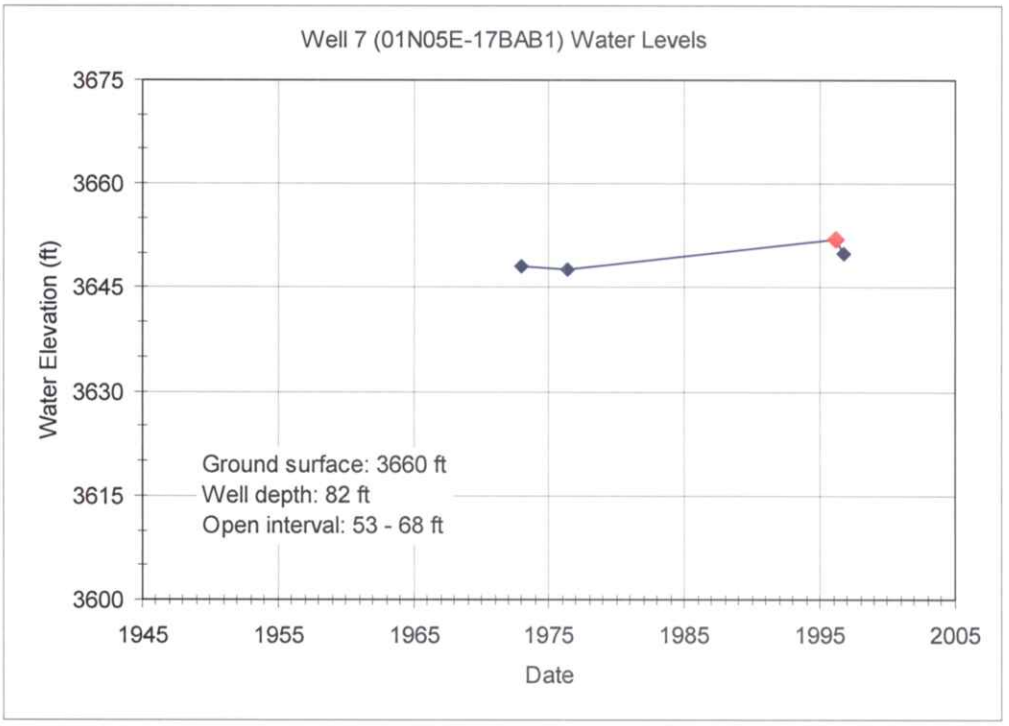
Well 4 (older measurements, stable water levels).



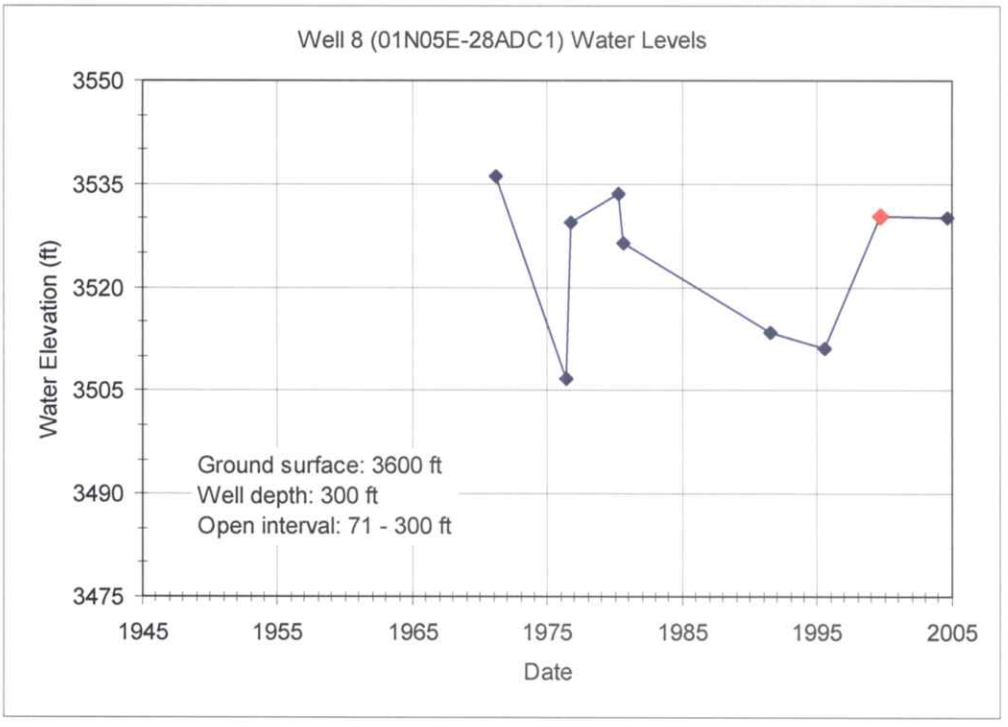
Well 5 (recent measurements, stable water levels).



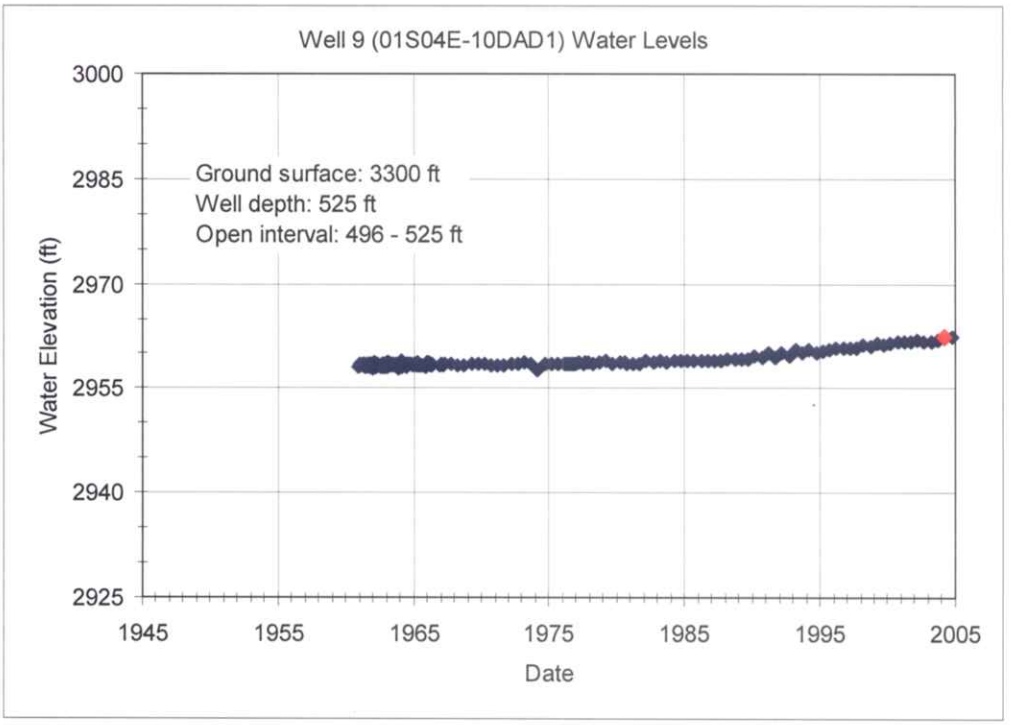
Well 6 (older measurements, decreasing water levels).



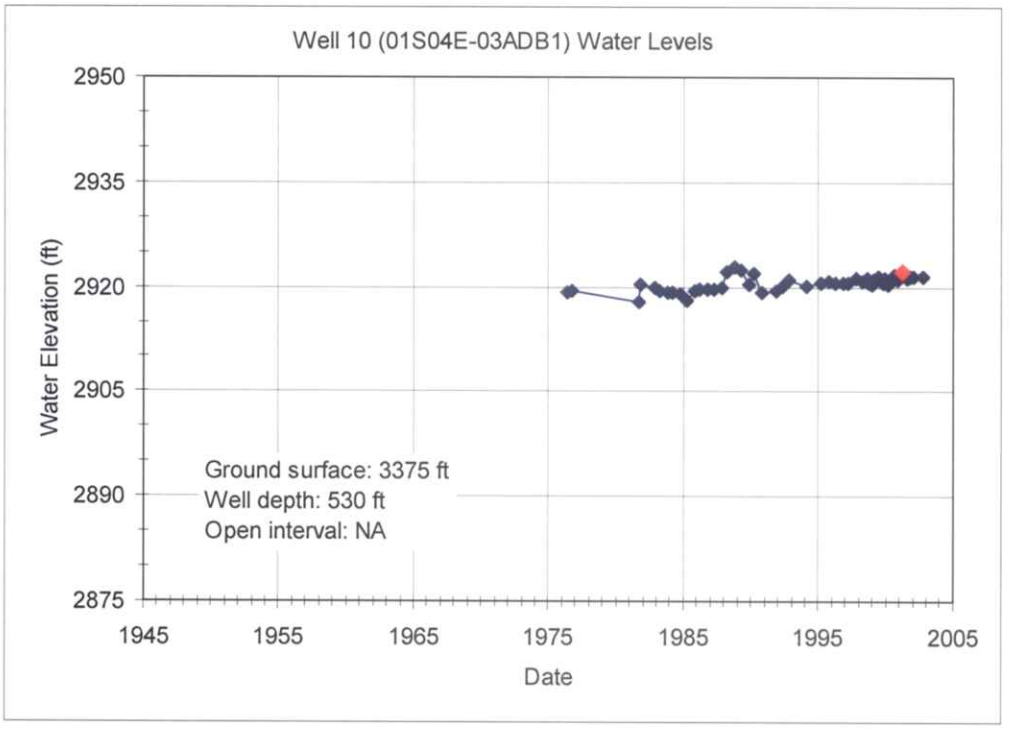
Well 7 (older measurements, stable water levels).



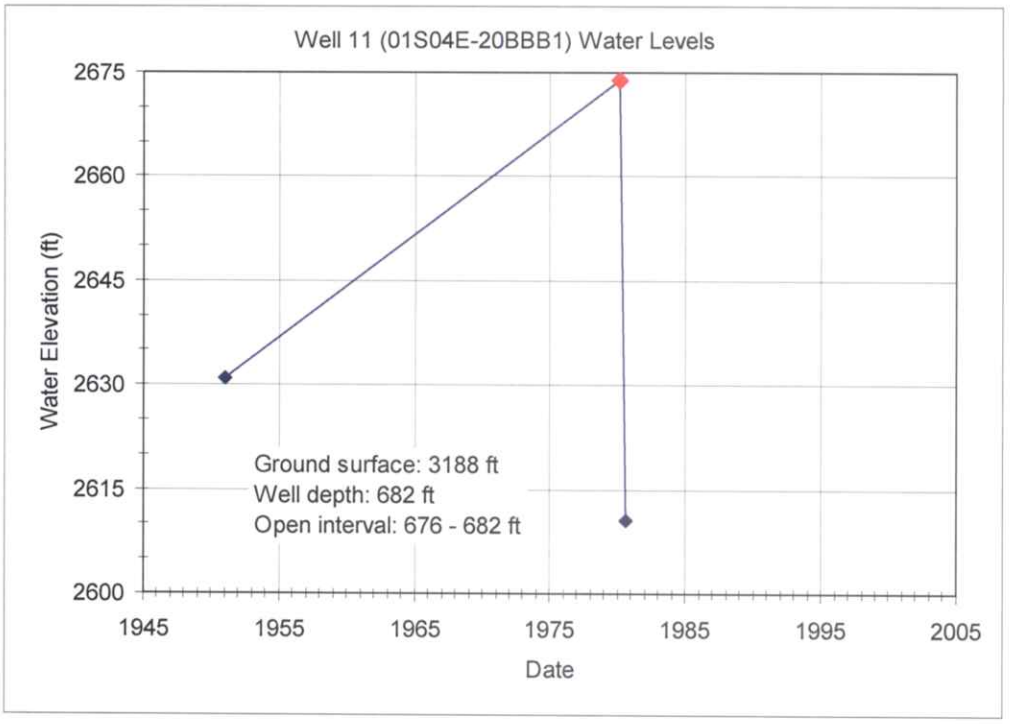
Well 8 (older measurements, unclear water level trend).



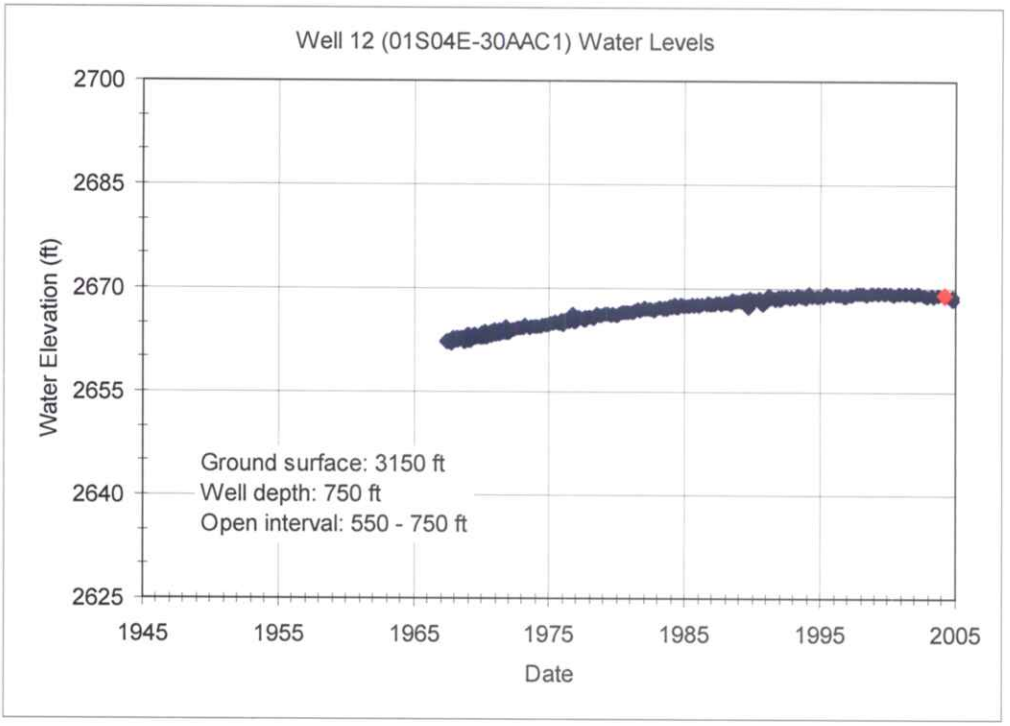
Well 9 (recent measurements, stable water levels).



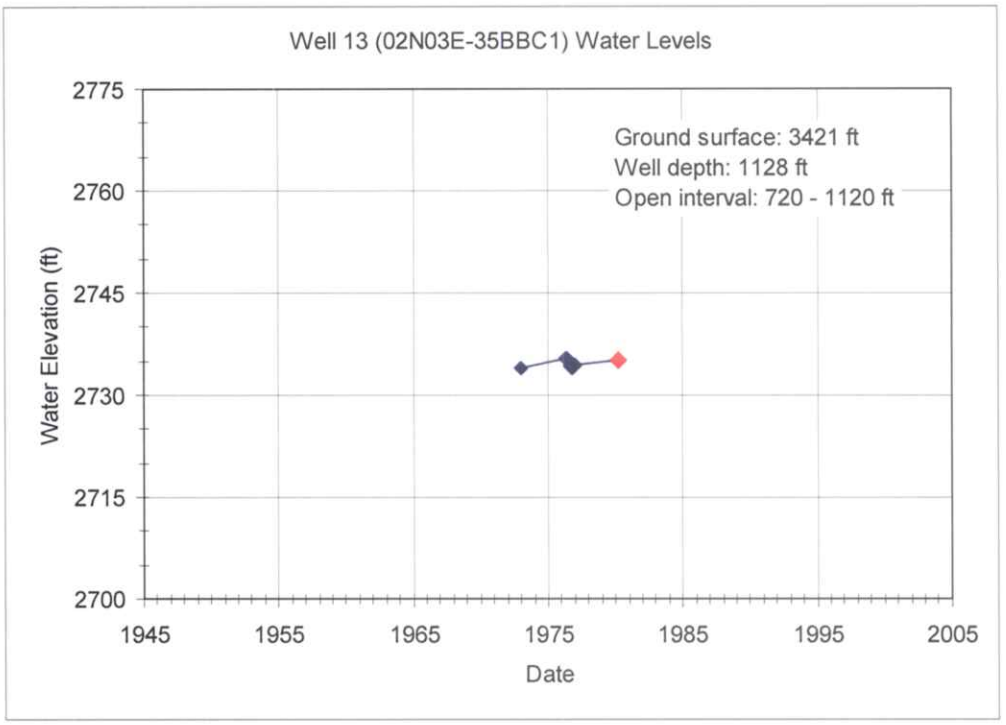
Well 10 (recent measurements, stable water levels).



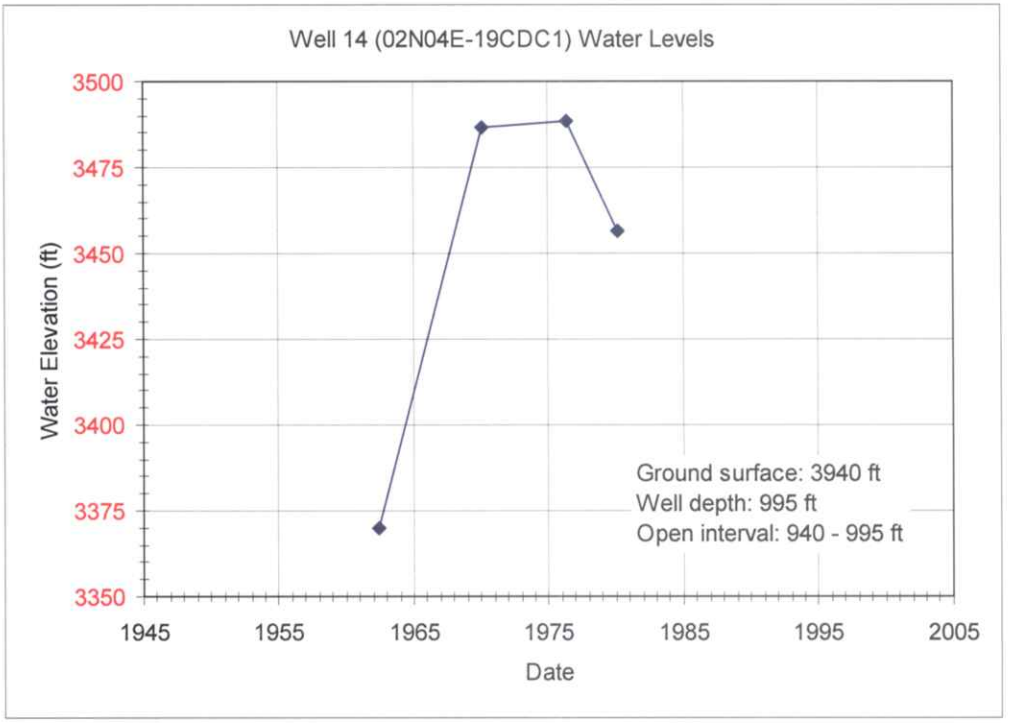
Well 11 (older measurements, unknown water level trend).



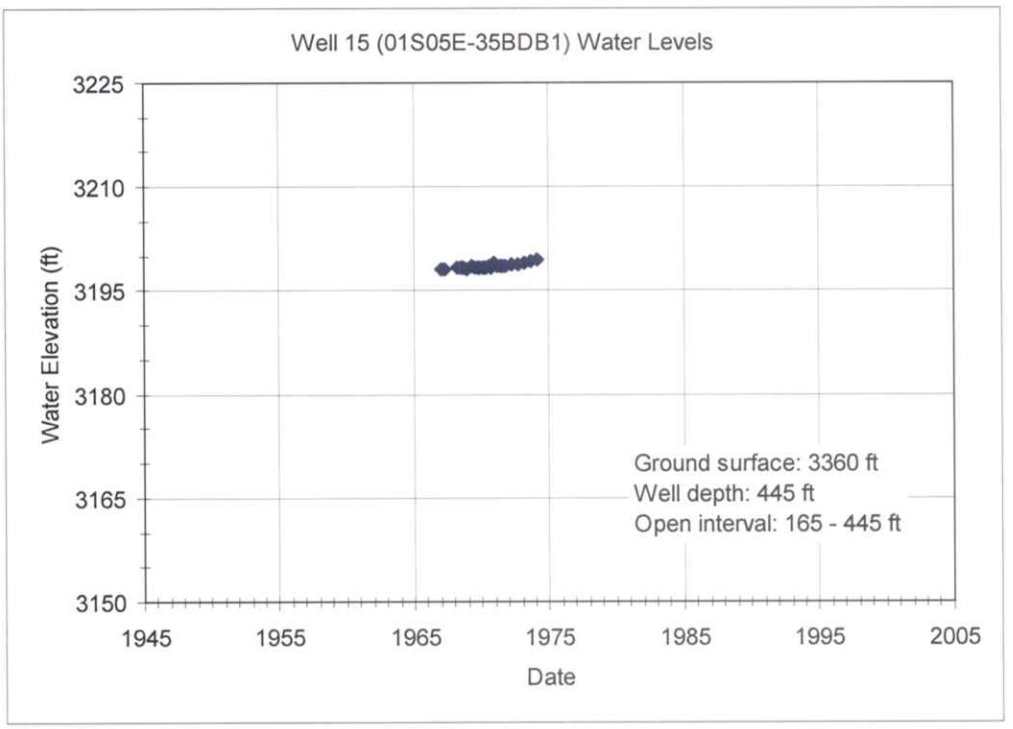
Well 12 (recent measurements, stable water levels).



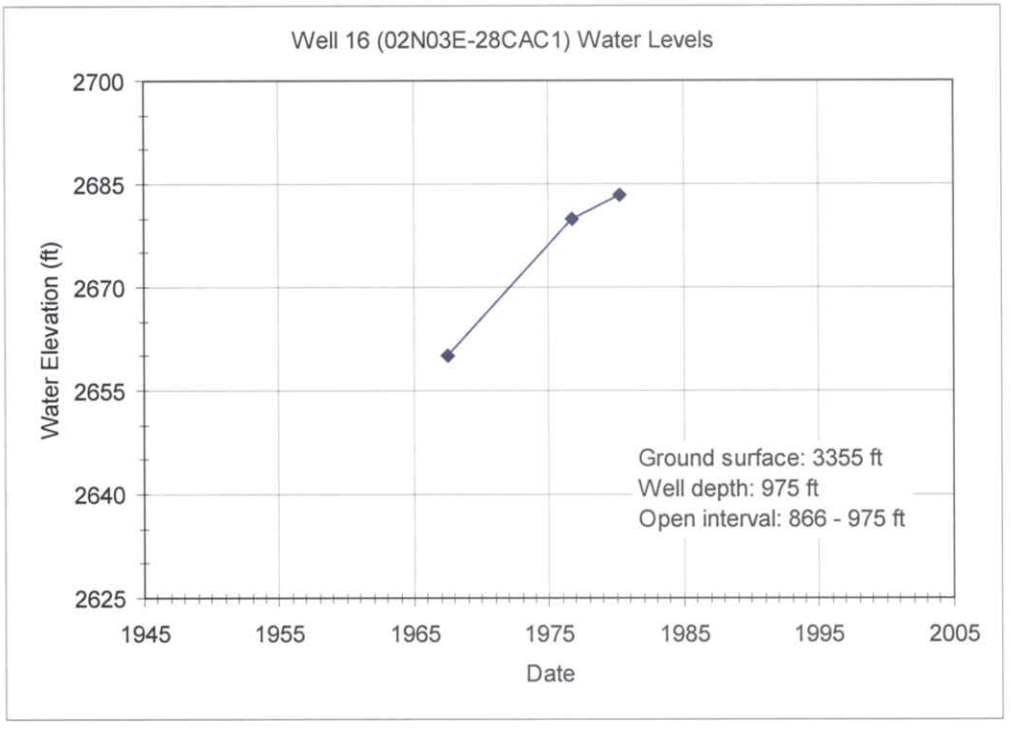
Well 13 (older measurements, stable water levels).



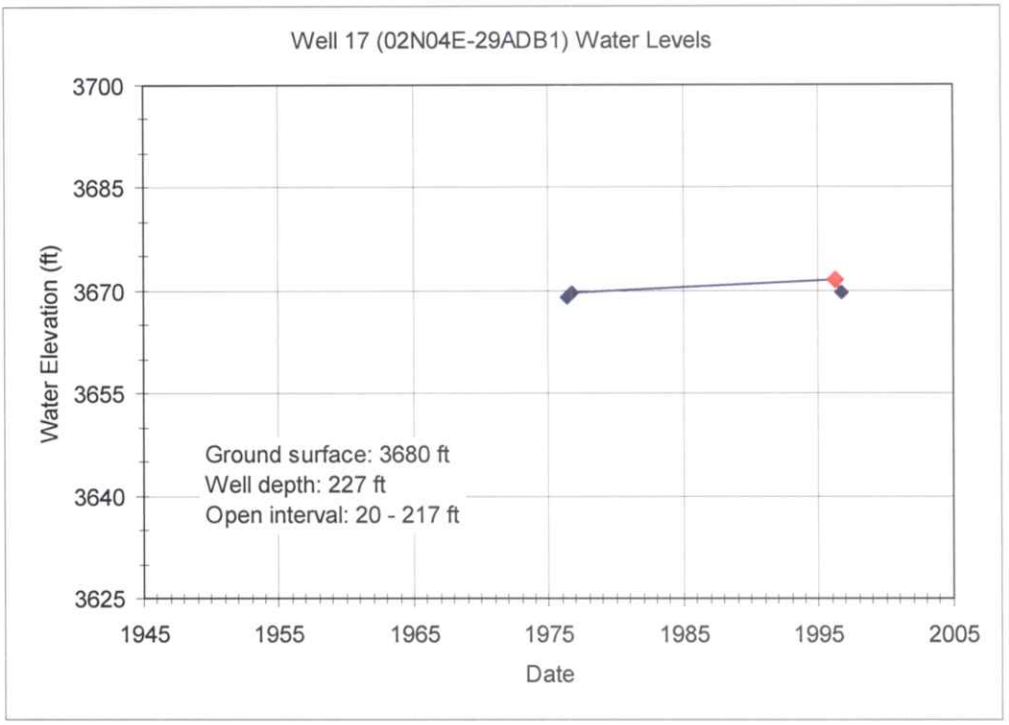
Well 14 (older measurements, unknown water level trend).



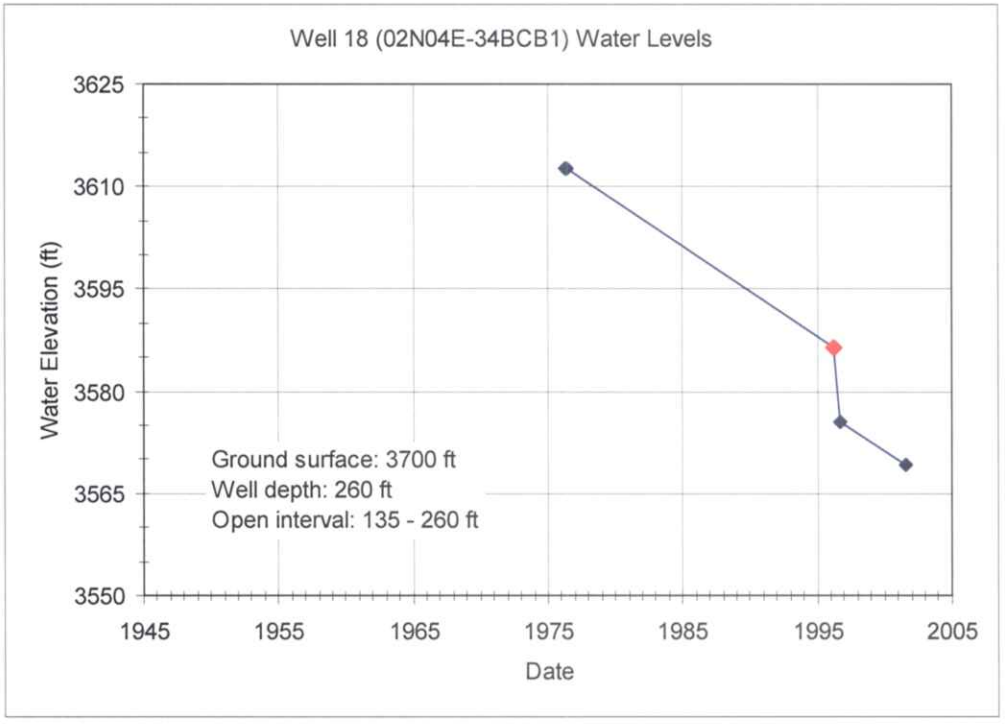
Well 15 (older measurements, stable water levels).



Well 16 (older measurements, increasing water levels).



Well 17 (older measurements, stable water levels).



Well 18 (recent measurements, decreasing water levels).

Appendix D: Drillers' Reports for Additional Wells used in Determining Ground Water Flow Directions

Form 238-7
6/93

IDA | DEPARTMENT OF WATER RESOU ES

WELL DRILLER'S REPORT

56232

Use Typewriter or Ball Point Pen

Page 1 of 2

1. DRILLING PERMIT NO. 63 94 W - 371 - 0
Other IDWR No. Abandoned see 63-94-W-0371-300

2. OWNER:
Name BOB & JOAN PRIGGE
Address 10521 LAKE HAZEL RD
City BOISE State ID Zip 83709

3. LOCATION OF WELL by legal description:
Sketch map location must agree with written location.

N / W / E / S

T. 4N North ☐ or South ☐
R. 3E East ☐ or West ☐
Sec. 4 SE 1/4 (10 acres) NW 1/4 (40 acres) 1/4 (160 acres) 1/4
Gov't Lot ____ County ADA

Address of Well Site BLACKS CREEK ROAD
(Give at least Direction + Distance to Road or Landmark)
Lot No. ____ Block No. ____ Subd. Name ____

4. PROPOSED USE: DOMESTIC
☒ Domestic ☐ Municipal ☐ Monitor ☐ Irrigation
☐ Thermal ☐ Injection ☐ Other ____

5. TYPE OF WORK NEW WELL
☒ New Well ☐ Modify or Repair ☐ Replacement ☐ Abandonment

6. DRILL METHOD MUD ROTARY
☒ Mud Rotary ☐ Air Rotary ☐ Cable ☐ Other ____

7. SEALING PROCEDURES

SEAL/FILTER PACK Material	From	To	AMOUNT Sacks or Pounds	METHOD
BENTONITE	0	50	2500#	POURED

Was drive shoe seal tested? YES ☐ NO ☐ How NONE USED

8. CASING/LINER:

Diameter	From	To	Guage	Casing	Liner	Steel	Plastic	Welded	Threaded
6"	+1	627	.250			☒	☐	☒	☐
6"	647	653	.250			☒	☐	☒	☐
6"	663	675	.250			☒	☐	☒	☐
6"	730	735	.250			☒	☐	☒	☐

Final location of shoes NONE USED
Top Packer or Headpipe ____ Bottom Tailpipe ____

9. PERFORATIONS/SCREENS SCREENS
☐ Perforations Method ____
☒ Screens Type WIRE Material STAINLESS STEEL

From	To	Slot Size	Number	Diameter	Tele/Pipe Size	Casing	Liner
627	647	.20	304 STA	6"	PIPE	☐	☐
653	663	.20	304 STA	6"	PIPE	☐	☐
						☐	☐
						☐	☐

10. WELL TESTS: NOT AVAILABLE
☐ Pump ☐ Bailer ☐ Air ☐ Flowing Artesian

Yield gal./min.	Drawdown	Pumping Depth	Time

Temperature of water NA Was a water analysis done? Yes ☐ No ☒
By whom? ____
Water Quality (odor, etc.) GOOD
Bottom Hole Temperature NA

11. STATIC WATER LEVEL:
605 ft. below surface Depth artesian flow found ____
Artesian pressure ____ lb. Describe access port WELL CAP
Describe Controlling Devices: ____

2

12. LITHOLOGIC LOG: (Describe repairs or abandonment)

Bore Dia.	From	To	Remarks: Lithology, Water Quality & Temperature	GPM	SWL
11"	0	2	TOPSOIL		
11"	2	3	CLAY		
	3	25	BOULDERS, GRAVEL, SAND MIX		
	25	27	SAND		
	27	32	BOULDERS		
	32	33	SAND, GRAVEL MIX		
	33	50	BOULDERS		
	50	54	SAND		
	54	68	BOULDERS		
	68	71	SAND, GRAVEL MIX		
	71	73	SAND		
	73	78	SAND & GRAVEL MIX		
	78	92	SAND		
	92	97	BOULDERS		
	97	99	SAND		
	99	125	SAND & GRAVEL MIX		
	125	132	SAND		
	132	135	GRAVEL		
	135	137	SAND		
	137	150	GRAVEL		
	150	197	VERY HARD SAND		
	197	201	GRAVEL		
	201	219	BOULDERS		
	219	245	SAND, SOME GRAVEL, VERY SOFT		
	245	269	GRAVEL, SAND MIX		
	269	272	CLAY		
	272	281	SAND		

Date: Started 6/1/94 Completed 6/23/94

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Department of Water Resources

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WESTERN REGION

MAY 08 1995

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 PETE COPE DRILLING Firm No. 213
Firm Official Joseph Jones Date 6/23/94
and
Supervisor or Operator Jerry Foster Date 6/23/94
(Sign once if Firm Official & Operator)

FORWARD WHITE COPY TO WATER RESOURCES

Form 238-7
0793

IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

56233

Use Typewriter or Ball Point Pen

Page 2 of 2

1. DRILLING PERMIT NO. 63 94 W - 371 - 0
Other IDWR No.

2. OWNER:
Name BOB & JOAN PRIGGE
Address 10521 LAKE HAZEL RD
City BOISE State ID Zip 83709

3. LOCATION OF WELL by legal description:
Sketch map location must agree with written location.

N / W / E / S

T. _____ North ☐ or South ☐
R. _____ East ☐ or West ☐
Sec. _____, _____ 10 acres 1/4 _____ 40 acres 1/4 _____ 160 acres 1/4
Gov't Lot _____ County

Address of Well Site
(Give at least Direction + Distance to Road or Landmark)
Lot No. _____ Block No. _____ Subd. 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	

Was drive shoe seal tested? YES NO How?

8. CASING/LINER:

Diameter	From	To	Guage	Casting	Liner	Steel	Plastic	Welded	Threaded
						☐	☐	☐	☐
						☐	☐	☐	☐
						☐	☐	☐	☐
						☐	☐	☐	☐

Final location of shoes
Top Packer or Headpipe Bottom Tailpipe

9. PERFORATIONS/SCREENS PERFORATIONS
☒ Perforations Method TORCH PERFORATED
☐ Screens Type Material

From	To	Slot Size	Number	Diameter	Tele/Pipe Size	Casting	Liner
675	680	1/8"	5 PER FT.	6"	PIPE	☐	☐
680	730	1/8"	5 PER FT	6"	PIPE	☐	☐
						☐	☐
						☐	☐

10. WELL TESTS:
☐ Pump ☐ Bailer ☐ Air ☐ Flowing Artesian

Yield gal./min.	Drawdown	Pumping Depth	Time

Temperature of water _____ Was a water analysis done? Yes ☐ No ☐
By whom?
Water Quality (odor, etc.)
Bottom Hole Temperature

11. STATIC WATER LEVEL:
_____ ft. below surface Depth artesian flow found _____
Artesian pressure _____ lb. Describe access port
Describe Controlling Devices:

12. LITHOLOGIC LOG: (Describe repairs or abandonment)

Bore Dia.	From	To	Remarks: Lithology, Water Quality & Temperature	GPM	SWL
	281	283	CLAY		
	283	285	CEMENTED SAND		
	285	287	CLAY		
	287	326	CEMENTED SAND		
	326	327	CLAY		
	327	335	SAND		
	335	341	CLAY		
	341	342	SAND		
	342	346	GRAVEL		
	346	351	SAND		
	351	355	CLAY		
	355	359	CEMENTED SAND		
	359	370	VERY HARD PEA GRAVEL		
	370	371	CEMENTED SAND		
	371	449	CLAY		
	449	455	LARGE GRAVEL, SOME SAND MIX		
	455	508	SAND, GRAVEL, CLAY MIX		
	508	512	SAND, SOME CLAY MIX		
	512	627	BRN SAND, CLAY MIX		
	627	651	CEMENTED SANDSTONE, SOME CLAY MIX		
	651	657	SAND & CLAY MIX		
	657	686	CEMENTED SANDSTONE & STREAKS OF CLAY		
	686	689	SAND		
	689	719	SAND & BRN CLAY MIX		
	719	721	SAND		
	721	730	SAND & CLAY MIX		
	730	735	CLAY		
	735		CLAY		

Date Started Completed

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WATER RESOURCES
WESTERN REGION

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SEP 20 1994
Department of Water Resources

MAY 08 1995

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 PETE COPE DRILLING Firm No. 213

Firm Official Date
and
Supervisor or Operator Date
(Sign once if Firm Official & Operator)

FORWARD WHITE COPY TO WATER RESOURCES

Form 238-7
9/82

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

USE TYPEWRITER OR PRINT PEN

WELL DRILLER'S REPORT

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

RECEIVED
JUL 26 1988
Department of Water Resources
Western Region

63-10530

1. WELL OWNER

Name State of Idaho-Transportation Dept

Address Statehouse Mail Box 8028

Owner's Permit No. 63-87-2 077

2. NATURE OF WORK

XX New well ☐ Deepened ☐ Replacement
☐ Abandoned (describe abandonment procedures such as materials, plug depths, etc. in lithologic log)

3. PROPOSED USE

XX Domestic ☐ Irrigation ☐ Test ☐ Municipal
☐ Industrial ☐ Stock ☐ Waste Disposal or Injection
☐ Other _____ (specify type)

4. METHOD DRILLED

☐ Rotary ☐ Air ☐ Hydraulic ☐ Reverse rotary
XX Cable ☐ Dug ☐ Other _____

5. WELL CONSTRUCTION

Casing schedule: XX Steel ☐ Concrete ☐ Other _____

Thickness	Diameter	From	To
.250 inches	8 inches	+ 2 feet	865 feet
.250 inches	6 inches	843'6" feet	863'6" feet
.250 inches	6 inches	894'0" feet	904'0" feet
_____ inches	_____ inches	_____ feet	_____ feet

Was casing drive shoe used? XX Yes ☐ No
Was a packer or seal used? XX Yes ☐ No 6" pipe 21'
Perforated? ☐ Yes XX No 822'6"-843'6"
How perforated? ☐ Factory ☐ Knife ☐ Torch
Size of perforation _____ inches by _____ inches

Number	From	To
_____ perforations	_____ feet	_____ feet
_____ perforations	_____ feet	_____ feet
_____ perforations	_____ feet	_____ feet

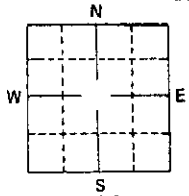
Well screen installed? XX Yes ☐ No
Manufacturer's name Johnson
Type stainless steel Model No. 304
Diameter 6 Slot size 30 Set from 863'6" feet to 894'0" feet
Diameter ___ Slot size ___ Set from ___ feet to ___ feet
Gravel packed? XX Yes ☐ No ☐ Size of gravel 8-12 sand
Placed from 843'6" feet to 863'6" feet
Surface seal depth 89 Material used in seal: ☐ Cement grout
XX Bentonite ☐ Puddling clay ☐ _____
Sealing procedure used: XX Slurry pit XX Temp. surface casing
XX Overbore to seal depth
Method of joining casing: ☐ Threaded XX Welded ☐ Solvent Weld
☐ Cemented between strata
Describe access port _____

AUG - 4 1988

6. LOCATION OF WELL

Sketch map location must agree with written location.

Department of Water Resources



East Boise POE (along I84)
Subdivision Name _____
IR-84-2(33) 66
Lot No. _____ Block No. _____
County Ada
S/E ¼ S/E ¼ Sec. 11, T. 1 (N) S, R. 3 (E) W.

7. WATER LEVEL

Static water level 687 feet below land surface.
Flowing? ☐ Yes XX No G.P.M. flow _____
Artesian closed-in pressure _____ p.s.i.
Controlled by: ☐ Valve ☐ Cap ☐ Plug
Temperature 78 °F. Quality _____
Describe artesian or temperature zones below.

8. WELL TEST DATA

XX Pump ☐ Bailer ☐ Air ☐ Other _____

Discharge G.P.M.	Pumping Level	Hours Pumped
38	738	2
45	748	2
55	755	4

9. LITHOLOGIC LOG

Bore Diam.	Depth From	Depth To	Material	Water Yes	Water No
12	0	2	clay topsoil		X
	2	4	hardpan & lava boulders		X
	4	55	brown sand, clay & lava bou.		X
	55	60	cemented brown sand & gravel		X
	60	63	loose brown sand & gravel		X
	63	116	cemented sand & gravel & clay streaks		X
	116	126	sand & gravel		X
	126	130	sandy clay & gravel		X
8	130	145	cemented sand & sandy clay		X
	145	148	brown clay		X
	148	175	cemented gravel		X
	175	204	cemented sand		X
	204	225	sandy clay		X
	225	245	cemented sand & streaks clay		X
	245	410	sandy clay & gravel		X
	410	455	sand & fine gravel		X
	455	460	sandy clay		X
	460	500	cemented sand		X
	500	558	sandy clay		X
	558	600	sand & fine gravel		X
	600	628	sandy clay		X
	628	661	sand		X
	661	665	sand & gravel		X
	665	720	sandy brown clay		X
	720	750	dirty sand, clay streaks	X	
	750	775	sandy clay		X
	775	802	brown clay		X
	802	820	sand & clay streaks	X	
	820	870	clay with sand streaks		X
	870	879	cemented sand	X	
	879	893	sand & clay streaks	X	
	893	1000	clay		X

10.

Work started 4/12/88 finished 6/23/88

11. DRILLERS CERTIFICATION

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

Firm Name W.E. Stevens & Sons License No. 153
Address 3709 Hawthorne Dr Date 6/26/88
Signed by (Firm Official) _____
and
(Operator) _____

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

Form 238-7
R-93

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WESTERN REGION

DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

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PAGE 1 OF 3 PAGES 95106

1. DRILLING PERMIT NO. 61-98-W-0075-000
Other IDWR No. D000 7483

2. OWNER:
Name FRANK [redacted] BONESSA
Address 1979 BORCHERS DRIVE
City SAN JOSE State CA Zip 95124

3. LOCATION OF WELL by legal description:
Sketch map location must agree with written location.

N / W / E / S

T. 1S North ☐ or South ☑
R. 3E East ☑ or West ☐
Sec. 13, SE 1/4 (10 acres) NE 1/4 (40 acres) NE 1/4 (160 acres)
Gov't Lot ____ County ADA

Address of Well Site 1 MILE WEST OF ORCHARD ACCESS RD ON ORCHARD RANCH LANE; THEN 1 MILE NORTH
(Give at least Direction + Distance to Road or Landmark)
Lot No. ____ Block No. ____ Subd. 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 Material	From	To	AMOUNT Sacks or Pounds	METHOD
NEAT CEMENT [redacted]	124.64	17	17 EA	DISPLACED THROUGH 8"
GROUT	5	115	94 #BAGS	CASING
BENTONITE	115	4	16 BAGS	SLURRY PIT
NEAT CEMENT GROUT	0	4'	1 BAG	POURED

Was drive shoe seal tested? Yes ☐ No ☑ How? ____

8. CASING/LINER:

Diameter	From	To	Guage	Casting	Liner	Steel	Plastic	Welded	Threaded
8 5/8	+1.83	124.64	1/4 WALL	✓		☑	☐	☑	☐
6 5/8	1	551	0.28	✓		☐	☑	☑	☐
5 9/16	514	629.7	0.188		✓	☑	☐	☑	☐
4 1/2	560.2	581.0	0.237		✓	☑	☐	☑	☐

Final location of shoes 8" SHOE @ [redacted] 124.64'
Top Packer or Headpipe 514 Bottom Tailpipe 629.7F

9. PERFORATIONS/SCREENS
☑ Perforations Method SAWED IN PVC, TORCH
☑ Screens Type JOHNSON Material CONTINUOUS SLOT WIRE WOUND

From	To	Slot Size	Number	Diameter	Tele/Pipe Size	Casting	Liner
410	550	3/32	1064	6 5/8	PIPE	☑	☐
560.2	570.45	.020	N.A	5 9/16	(6" TELESCOPING)	☑	☐
560.2	581.0	3/32	78	4 1/2	PIPE	☐	☑

10. WELL TESTS:
☑ Pump ☐ Bailer ☐ Air ☐ Flowing Artesian

Yield gal./min.	Drawdown	Pumping Depth	Time
9.7	< 1 FT	500.8	12 HRS

Temperature of water 66°F Was a water analysis done? Yes ☐ No ☑
By whom? ____
Water Quality (odor, etc.) EXCELLENT
Bottom Hole Temperature 66°F

11. STATIC WATER LEVEL:
500 ft. below surface Depth artesian flow found ____
Artesian pressure ____ lb. Describe access port 8" CASING [redacted]: BY REMOVING WELL CAP

12. LITHOLOGIC LOG: (Describe repairs or abandonment)

Bore Dia.	From	To	Remarks: Lithology, Water Quality & Temperature	WATER YES	WATER NO
8	0	551'			
6	551	634			
	0	2	SOIL		
	2	6	SOIL, SUBSOIL, CLAYEY HARDPAN		
	6	8	SANDY CLAY		
	8	16	CLAY		
	16	18	SAND		
	18	34.5	SANDY CLAY		
	34.5	35	ROCK		
	35	63	[redacted] CLAYEY SAND		
	63	64	GRAVEL		
	64	69	CLAYEY SAND		
	69	70	GRAVEL		
	70	96	CLAYEY SAND		
	96	107	GRAVEL		
	107	116	CLAY		
	116	122	GRAVEL		
	122	194	BASALT		
	194	197	RUBBLE & CINDERS		
	197	216	BASALT		
	216	217	BASALT, CREVICED, RED IN SEAMS		
	217	255	BASALT		
	255	257	BOULDERS, HARD, RED MATRIX		
	257	272	BASALT, RED IN SEAMS		
	272	273	RUBBLE & CINDERS		
	273	311	BASALT		
	311	312	RUBBLE & CINDERS		

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Department of Water Resources

Date: Started Nov 30, 1998 Completed SEE PAGE 3

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 ARTESIAN CO Firm No. 318
Firm Official HUGH HARDEN Date 7 June 1999
and
Supervisor or Operator Hugh Harden Date 7 June 1999
(Sign once if Firm Official & Operator)

MICROFILMED
AUG 25 1999

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WELL DRILLER'S REPORT

PAGE 2 OF 3 PAGES

61-98-W 0075-000

95107

1. DRILLING PERMIT
Other IDWR No. D 000 7483

2. OWNER:
Name FRANK [redacted] BONESSA
Address
City State Zip

3. LOCATION OF WELL by legal description:
Sketch map location must agree with written location.

OFFICE USE ONLY
Inspected by
T. North ☐ or South ☐
R. East ☐ or West ☐
Twp 01S Rge 03E Sec 13
1/4 1/4 1/4 1/4
40 acres 160 acres
Gov't Lot County
SE NE 1/4 NE 1/4

Address of Well Site
(Give at least Direction + Distance to Road or Landmark)
Lot No. Block No. Subd. 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 Material	From	To	AMOUNT Sacks or Pounds	METHOD

Was drive shoe seal tested? YES NO How?

8. CASING/LINER:

Diameter	From	To	Guage	Casing	Liner	Steel	Plastic	Welded	Threaded
						☐	☐	☐	☐
						☐	☐	☐	☐
						☐	☐	☐	☐
						☐	☐	☐	☐

Final location of shoes 6" PVC COUPLING @ 551 FT
Top Packer or Headpipe Bottom Tailpipe

9. PERFORATIONS/SCREENS
☐ Perforations Method
☐ Screens Type Material

From	To	Slot Size	Number	Diameter	Tele/Pipe Size	Casing	Liner
						☐	☐
						☐	☐
						☐	☐
						☐	☐

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AUG 25 1999

10. WELL TESTS:
☐ Pump ☐ Bailer ☐ Air ☐ Flowing Artesian

Yield gal./min.	Drawdown	Pumping Depth	Time

Temperature of water Was a water analysis done? Yes ☐ No ☐
By whom?
Water Quality (odor, etc.)
Bottom Hole Temperature

11. STATIC WATER LEVEL:
ft. below surface Depth artesian flow found
Artesian pressure lb. Describe access port
Describe Controlling Devices:

12. LITHOLOGIC LOG: (Describe repairs or abandonment)

Bore Dia.	From	To	Remarks: Lithology, Water Quality & Temperature	WATER other	WATER salt
	312	317	BASALT SOFTER, BROWN		✓
	317	320	BASALT HARD, GREY		✓
	320	327	BASALT SOFTER, BROWN		✓
	327	330.5	BASALT MED. HARD, GREY		✓
	330.5	334	RUBBLE & CINDERS, BROWN		✓
	334	336	CLAY, BROWN		✓
	336	342	BASALT, HARD, BROWN		✓
	342	379	SANDSTONE, TAN		✓
	379	383	CLAY, TAN		✓
	383	401	SAND, TAN		✓
	401	403	CLAY, TAN		✓
	403	434	CLAYEY SAND, TAN		✓
	434	435	CLAY, TAN		✓
	435	438	SANDY CLAY, TAN		✓
	438	439	CONGLOMERATE, TAN		✓
	439	471	CLAYEY SAND, TAN		✓
	471	472	CONGLOMERATE TAN		✓
	472	479	CLAYEY SAND, TAN		✓
	479	482	CLAY, TAN		✓
	482	484	SAND, TAN		✓
	484	487	CLAYEY SAND, TAN		✓
	487	487.2	SAND TAN		✓
	487.2	500	CLAYEY SAND TAN		✓
	500	500.2	SAND TAN		✓
	500.2	514	CLAYEY SAND & CLAY		✓
	514	514.2	SAND TAN	✓	
	514.2	517	CLAYEY SAND TAN		✓

Date: Started PAGE 1 Completed PAGE 3

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 ARTESIAN CO Firm No. 318
Firm Official Hugh Hardee Date 7 June 1999
and
Supervisor or Operator Date
(Sign once if Firm Official & Operator)

FORWARD WHITE COPY TO WATER RESOURCES

Form 238-7
6/93

RECEIVED IDAI
JUN 0 8 1999
WATER RESOURCES
WESTERN REGION

DEPARTMENT OF WATER RESOU ES
WELL DRILLER'S REPORT

Use Typewriter or Ball Point Pen

PAGE 3 of 3 PAGES

95108

61-98-W-0875-000

1. DRILLING PERMIT NO. _____
Other IDWR No. D 0000 7483

2. OWNER:
Name FRANK [redacted] BONESSA
Address 1979 BORCHERS DRIVE
City SAN JOSE State CA Zip 95124

3. LOCATION OF WELL by legal description:
Sketch map location must agree with written location.

OFFICE USE ONLY
Twp 01S Rge 03E Sec 13
SE ¼ NE ¼ NE ¼
Govt Lot ____ County ____

North ☐ or South ☐
East ☐ or West ☐
____ 1/4 ____ 1/4 ____ 1/4
10 acres 40 acres 160 acres

Address of Well Site _____
(Give at least Direction + Distance to Road or Landmark)
Lot No. ____ Block No. ____ Subd. 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 Material	From	To	AMOUNT Sacks or Pounds	METHOD

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

8. 4½ OD [redacted]/LINER: HANGER 5" OD COUPLING CUT OFF, BEVELED TO INSIDE HARDFACED, & GROUND SMOOTH

Diameter	From	To	Guage	Casting	Liner	Steel	Plastic	Welded	Threaded
						☐	☐	☐	☐
						☐	☐	☐	☐
						☐	☐	☐	☐
						☐	☐	☐	☐

Final location of shoes – 4" LINER – NO SHOE
Top Packer or Headpipe ____ Bottom Tailpipe ____
BOTTOM END CUT ANGLE = 54.2° FROM PIPE AXIS, CHAMFERED

9. PERFORATIONS/SCREENS
☐ ~~Perforations~~ ~~Method~~ INTERNALLY & GROUND
☐ ~~Screens~~ ~~Type~~ ~~Material~~

From	To	Slot Size	Number	Diameter	Tele/Pipe Size	Casting	Liner
						☐	☐
						☐	☐
						☐	☐
						☐	☐

MICROFILMED
AUG 2 5 1999

10. WELL TESTS:
☐ Pump ☐ Bailer ☐ Air ☐ Flowing Artesian

Yield gal./min.	Drawdown	Pumping Depth	Time

Temperature of water ____ Was a water analysis done? Yes ☐ No ☐
By whom? ____
Water Quality (odor, etc.) ____
Bottom Hole Temperature ____

11. STATIC WATER LEVEL:
____ ft. below surface Depth artesian flow found ____
Artesian pressure ____ lb. Describe access port ____
Describe Controlling Devices: ____

12. LITHOLOGIC LOG: (Describe repairs or abandonment)

Bore Dia.	From	To	Remarks: Lithology, Water Quality & Temperature	WATER Y	WATER N
	517	518	SAND TAN	✓	
	518	524	CLAYEY SAND, TAN		✓
	524	524.5	SAND, TAN	✓	
	524.5	544	CLAYEY SAND, TAN		✓
	544	546	SAND, TAN	✓	
	546	559	ROCK BASALT? BAILS DRY		✓
	559	562	SAND, TAN		✓
	562	567	SANDY CLAY, TAN		✓
	567	568	SAND, TAN	✓	
	568	572	ROCK CONGLOMERATE? TAN		✓
	572	573	CLAY, TAN		✓
	573	575.5	CONGLOMERATE? TAN		✓
	575.5	578	CLAYEY GRAVEL	✓	✓
	578	581	CLAYEY SAND TAN	✓	✓
	581	601	ALTERNATING LAYERS SAND&CLAY	✓	✓
	601	602	CLAYEY GRAVEL, TAN		✓
	602	604	CLAY, TAN	[redacted]	✓
	604	605	SAND, TAN	✓	
	605	633	ALTERNATING LAYERS SAND&CLAY	✓	✓

RECEIVED
JUN 14 1999
Department of Water Resources

Date: Started SEE PAGE 1 Completed JUNE 1, 1999

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 ARTESIAN CO Firm No. 318
Firm Official Hugh Harden Date JUNE 7, 1999
and
Supervisor or Operator ____ Date ____
(Sign once if Firm Official & Operator)

FORWARD WHITE COPY TO WATER RESOURCES

81161-53

RECEIVED
JUL 10 1967
Department of Reclamation

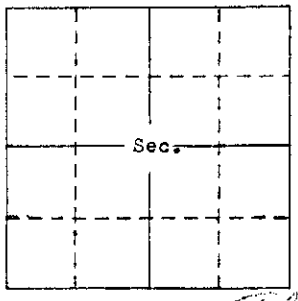
REPORT OF WELL DRILLER
State of Idaho

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

WELL OWNER:
Name State Highway Dept. (Black Creek Rest Area
Address Boise, Idaho

Owner's Permit No. G-82956
NATURE OF WORK (check): Replacement well ☐
New well [*] Deepened ☐ Abandoned ☐
Water is to be used for: Drinking & Rest Area
METHOD OF CONSTRUCTION: Rotary ☐ Cable [*]
Dug ☐ Other ____ (explain)
CASING SCHEDULE: Threaded ___ Welded [*]
8 "Diam. from 0 ft. to 904 ft.
___ "Diam. from ___ ft. to ___ ft.
___ "Diam. from ___ ft. to ___ ft.
___ "Diam. from ___ ft. to ___ ft.
Thickness of casing: ¼" wall Material:
Steel [*] concrete ☐ wood ☐ other ☐ (explain)
PERFORATED? Yes [*] No ☐ Type of perforator used: Machine
Size of perforations: 1/8 " by 3 "
___ perforations from 866 ft. to 890 ft.
___ perforations from ___ ft. to ___ ft.
___ perforations from ___ ft. to ___ ft.
___ perforations from ___ ft. to ___ ft.
WAS SCREEN INSTALLED? Yes ☐ No ☐
Manufacturer's name
Type Model No.
Diam. Slot size Set from ft. to ft.
Diam. Slot size Set from ft. to ft.
CONSTRUCTION: Well gravel packed? Yes [*] No ☐ size of gravel ½" minus Gravel placed from 818 ft. to 975 ft. Surface seal provided? Yes [*] No ☐ To what depth? ___ ft. Material used in seal:
Did any strata contain unusable water? Yes ☐ No ☐ Type of water:
Depth of strata ft. Method of sealing strata off:
Surface casing used? Yes ☐ No. ☐
Cemented in place? Yes ☐ No ☐

Locate well in section



LOCATION OF WELL: County Ada
NE¼ SW¼ Sec. 28 T. 3 N/S R. 3 E/W

Size of drilled hole: 8" Total depth of well: 975 ft. Standing water level below ground: 695 ft. Temp. Fahr. 71 ° Test delivery: 55-75 gpm or ___ cfs Pump? [*] Bail ☐
Size of pump and motor used to make test: 20 h.p. Sub. pump
Length of time of test: 48 Hrs. ___ Min.
Drawdown: No ft. Artesian pressure: ft. above land surface ___ Give flow ___ cfs or ___ gpm. Shutoff pressure:
Controlled by: Valve ☐ Cap ☐ Plug ☐
No control ☐ Does well leak around casing?
Yes ☐ No [*]

DEPTH FROM FEET	DEPTH TO FEET	MATERIAL 104073	WATER YES OR NO
0	2	Top Soil	
2	8	White hardpan	
8	105	Cemented gravel	
105	120	Gravel & sand, small amount yellow clay	
120	130	Small gravel & reddish clay	
130	165	Light brown clay & small gravel	
165	245	Yellowish sand & clay	
245	280	Yellowish sand & clay (floaters of decomposed granite)	
280	353	Sand & clay	
353	392	Sticky brown clay	
392	435	Brown sand & clay	
435	500	Brown sand & clay (some gravel)	
500	555	Layers of sand & clay	
555	680	Sand, gravel & clay	
680	690	Light brown clay	
690	730	Sand, gravel & clay	
730	845	Clay--small amount of sand	
845	904	Sand & gravel--small layers of clay	
		Casing perforated 866-890 ft.	
904	975	Layers of clay, sand & gravel	
		4" liner installed from 818' to 975' and gravel packed	

Work started: November 23, 1966
Work finished: June 14, 1967
Well Driller's Statement: This well was drilled under my supervision and this report is true to the best of my knowledge.
Name: Wayne E. Stevens
Address: 3709 Hawthorne Drive, Boise, Idaho
Signed by: Wayne E. Stevens
License No. 54 Date: June 25, 1967
no helper used

Use other side for additional remarks

USGS

Form 238-7
6/89

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

USE TYPEWRITER OR BALLPOINT PEN

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 RAY MCFALL

Address 5217 MALAD ST BOISE

Owner's Permit No. 63-90-Z-055 extensions granted

2. NATURE OF WORK

☒ New well ☐ Deepened ☐ Replacement
☐ Well diameter increase
☐ Abandoned (describe abandonment procedures such as materials, plug depths, etc. in lithologic log)

3. PROPOSED USE

☒ Domestic ☐ Irrigation ☐ Test ☐ Municipal
☐ Industrial ☐ Stock ☐ Waste Disposal or Injection
☐ Other _____ (specify type)

4. METHOD DRILLED

☒ Rotary ☐ Air ☐ Hydraulic ☐ Reverse rotary
☐ Cable ☐ Dug ☐ Other _____

5. WELL CONSTRUCTION

Casing schedule ☒ Steel ☐ Concrete ☐ Other _____

Thickness	Diameter	From	To
.250	6 inches	1 inches +	532 feet
_____	_____ inches	_____ inches	_____ feet
_____	_____ inches	_____ inches	_____ feet
_____	_____ inches	_____ inches	_____ feet
_____	_____ inches	_____ inches	_____ feet

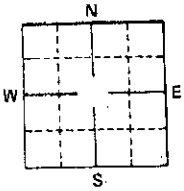
Was casing drive shoe used? ☒ Yes ☐ No
Was a packer or seal used? ☐ Yes ☒ No
Perforated? ☒ Yes ☐ No
How perforated? ☐ Factory ☐ Knife ☒ Torch ☐ Gun
Size of perforation .040 inches by 3 inches

Number		From	To
200	perforations	460 feet	531 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 3/8 minus
Placed from 80 feet to 532 feet
Surface seal depth 80 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 _____

6. LOCATION OF WELL

Sketch map location must agree with written location.



Black's Creek Rd

Subdivision Name _____ Lot No. _____ Block No. _____

County Ada

N/W¼ S/E ¼ Sec. 30, T. 2 N. S., R. 4 E. W.

MICROFILMED
JUL 08 1992

7. WATER LEVEL

Static water level 395 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 _____
Describe artesian or temperature zones below.

8. WELL TEST DATA

☐ Pump ☐ Bailer ☒ Air ☐ Other _____

Discharge G.P.M.	Pumping Level	Hours Pumped
6	450	2

9. LITHOLOGIC LOG 075765

Bore Diam.	Depth From	Depth To	Material	Water Yes	Water No
8	0	43	reddish brown sandy clay with gravel & boulders		X
	43	80	sandy reddish brown clay		X
	80	84	loose sand & gravel		X
	84	140	light brown sandy clay		X
	140	460	sandy reddish brown clay with thin streaks of sand & gravel		X
	460	470	brown cemented sand & gravel	X	
	470	509	sandy reddish brown clay		X
	509	511	cemented sand & gravel	X	
	511	535	sandy reddish brown clay		X

RECEIVED
MAY - 1 1992
Department of Water Resources
Western Regional Office

10. Work started 4/8/92 finished 4/14/92

11. DRILLERS CERTIFICATION

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

Firm Name Stevens & Sons Firm No. 153
Address 3709 Hawthorne Dr Date 4/15/92
Signed by (Firm Official) Wayne Stevens
and
(Operator) Don Stevens

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

Form 238-7
3/95

#9003

IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

Use Typewriter or Ballpoint Pen

0647767

Office Use Only
Inspected by _____
Twp____ Rge____ Sec____
____1/4 ____1/4 ____1/4
Lat: : : Long: : :

1. DRILLING PERMIT NO. 61-98-W 0078-000
Other IDWR No. _____

2. OWNER:
Name Tim Hutchings
Address 13690 S Cloverdale
City Kuna State ID Zip 83634

3. LOCATION OF WELL by legal description:
Sketch map location must agree with written location.

N / W / E / S

Twp. 1 North ☑ or South ☐
Rge. 5 East ☑ or West ☐
Sec. 33 ____ 10 acres 1/4 SW 40 acres 1/4 SW 160 acres 1/4
Gov't Lot ____ County Elmore
Lat: : : Long: : :
Address of Well Site Boise Junction Rd.
City Mountain Home
(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/FILTER PACK Material	From	To	AMOUNT Sacks or Pounds	METHOD
Bentonite	0	501	600	Pour

Was drive shoe used? ☑ Y ☐ N Shoe Depth(s) 518
Was drive shoe seal tested? ☐ Y ☐ N How? Air

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
6	+2	518	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:
360 ft. below ground Artesian pressure _____ lb.
Depth flow encountered 525 ft. Describe access port or control devices: CAP

11. WELL TESTS:
☐ Pump ☐ Bailer ☑ Air ☐ Flowing Artesian

Yield gal./min.	Drawdown	Pumping Level	Time
50	500	500	4 Hr

Water Temp. 56 Bottom hole temp. 56
Water Quality test or comments: _____
Depth first Water Encountered 360

12. LITHOLOGIC LOG: (Describe repairs or abandonment)

Bore Dia.	From	To	Remarks: Lithology, Water Quality & Temperature	Water Y	Water N
8	0	2	TOP Soil		
	2	4	Hard Pan		
	4	18	Brn CLAY		
8	18	190	Brn Sand & CLAY		
	190	222	LAVA		
	222	360	Brn Sand CLAY		
	360	440	CLAY & Sand Layers	✓	
6	440	470	Gravel	✓	
	470	525	CLAY & Shale Sand Layers	✓	
	525	540	Sand & Gravel	✓	

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DEC 21 1998
Department of Water Resources

RECEIVED MICROFILMED
DEC 16 1998 MAR 08 1999
WATER RESOURCES
WESTERN REGION

Completed Depth 525 (Measurable)
Date: Started 12-10-98 Completed 12-11-98

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 Western Water Drilling Firm No. 560
Firm Official _____ Date 12-12-98
and
Supervisor or Operator _____ Date _____
(Sign once if Firm Official & Operator)

FORWARD WHITE COPY TO WATER RESOURCES

72180-56

C

Form 238-7
3/95-296

IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT 065952

Office Use Only
Inspected by
Twp ___ Rge ___ Sec ___
___1/4 ___1/4 ___1/4
Lat: : : Long: : :

1. DRILLING PERMIT NO. 61 -97 -W -0033 -000

Other IDWR No.

2. OWNER:

Name Rick Millington

Address 8011 Ustick Rd.

City Boise State ID Zip 83704

3. LOCATION OF WELL by legal description:

Sketch map location must agree with written location

N / W / E / S (section grid sketch, marked square)

Twp. 1 North ☐ or South ☒

Rge. 5 East ☒ or West ☐

Sec. 6 1/4 (10 acres) NE 1/4 (40 acres) SW 1/4 (160 acres)

Gov't lot ___ County Elmore

Lat: : : Long: : :

Address of Well Site Baseline Rd

City Mayfield

(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/FILTER PACK			AMOUNT	METHOD
Material	From	To	Sacks or Pounds	
bentonite	2	18	6	overbore

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	575	.250	steel	☒	☐	☒	☐
8"	0	80	.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:

387 ft. below ground Artesian Pressure ___ lb

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

11. WELL TESTS:

☐ Pump ☐ Bailer ☒ Air ☐ Flowing Artesian

Yield gal/min.	Drawdown	Pumping Level	Time
30		560	2 hrs.

Water Temp. ___ Bottom hole temp. ___

Water Quality test or comments:

Depth first Water Encountered 455

12. LITHOLOGIC LOG: (Describe repair or abandonment)

Bore Dia.	From	To	Remarks: Lithology, Water Quality & Temp.	Water Y	Water N
10"	0	1	brown top soil		☒
10"	1	3	brown clay		☒
10"	3	5	brown hardpan clay		☒
10"	5	20	brown sand		☒
8"	20	24	brown clay		☒
8"	24	60	brown clay & strips brown sand		☒
8"	60	114	white & brown soft granite		☒
8"	114	117	black granite		☒
8"	117	160	white & brown granite		☒
8"	160	175	brown granite chips		☒
8"	175	225	white & brown granite		☒
8"	225	338	brown clay		☒
8"	338	365	clear & white grnt. w/strps brn clay		☒
8"	365	402	brown fine sand		☒
8"	402	440	brn snad w/strips of clay		☒
6"	440	455	brown sandy clay		☒
6"	455	473	brown sand w/small gravel	☒	
6"	473	495	brown clay		☒
6"	495	528	brown sand & small gravel	☒	
6"	528	533	brown sandy clay		☒
6"	533	561	brown & white sand		☒
6"	561	566	light brown clay		☒
6"	566		gray sand	☒	

Completed Depth: 387 (Measurable)

Date: Started 07-11-97 Completed 07-18-97

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 SOS Welldrilling & Pump Co Firm No. 212

Firm Official [signature] Date 9-2-97

Supervisor or Operator [signature] Date 9-2-97

(Sign once if Firm Official & Operator)

Date: 08/22/97 Time: 4:11 PM

USE TYPEWRITER OR BALL POINT PEN

State of Idaho
Department of Water Administration

WELL DRILLER'S REPORT 1150

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

1. WELL OWNER

Name: El Paso Natural Gas

Address: ______

Owner's Permit No. ______

2. NATURE OF WORK: Anode Bed

☒ New well ☐ Deepened ☐ Replacement

☐ Abandoned (describe method of abandoning)

Not a Water Well

3. PROPOSED USE

☐ Domestic ☐ Irrigation ☐ Test

Not a Water Well

☐ Municipal ☐ Industrial ☐ Stock

4. METHOD DRILLED

☒ Cable ☐ Rotory ☐ Dug ☐ Other

5. WELL CONSTRUCTION

Diameter of hole 12 inches Total depth 578 feet

Casing schedule: ☒ Steel ☐ Concrete

Thickness	Diameter	From	To
1/4 inches	10 3/4 inches	+1 feet	508 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 118 feet

Material used in seal ☐ Cement grout ☒ Puddling clay

6. LOCATION OF WELL

Sketch map location must agree with written location.

N W E S

61 (1) D.P.

County: Ada

NE ¼ NE ¼ Sec. 17 T. 1 N/S, R. 4 E/W

7. WATER LEVEL

Static water level 450 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 ☐ Bailer ☐ Other

Discharge G.P.M.	Draw Down	Hours Pumped
None		
Was not Tested		

9. LITHOLOGIC LOG

028863

Hole Diam.	Depth From	Depth To	Material	Water Yes	Water No
12	0	8	Surface		
12	8	114	Clay Fine gravel Sand		✓
12	114	118	Gravel		✓
12	118	177	Black Basalt		✓
12	177	187	Red Basalt		✓
12	187		Caving		✓
12	187	197	Red Basalt		✓
12	197	223	Black Basalt		✓
12	223	237	Red BASALT		✓
12	237	277	Fine gravel Sand		✓
			Clay Enough to Drill		✓
12	277	284	Gravel & Sand		✓
			Caving		✓
			Run Casing		✓
10	284	288	gravel & Sand		✓
10	288	360	Layer Clay & White Sand		✓
	360	450	Sand & Clay	✓	
		450	Water Caving		
	450	550	Clay with Sands		
			Sand Could be		
			Water at 550 ?		
			Caving 550-558		
	550	578	Clay		
			Clay Was Sticky		
			Sand White Quartz		
			Glenns Ferry Formation		

Not a Water Well

Could not drive Pipe further

10.

Work started 14 Feb 73 finished 30 April 1973

11. DRILLER'S CERTIFICATION

This well was drilled under my supervision and this report is true to the best of my knowledge.

USGS

Driller's or Firm's Name: Eugene W Walker Number: 15

Address: 624 Pierce St Twin Falls

Signed By: Eugene W Walker Date: 14 June 1973

USE ADDITIONAL SHEETS IF NECESSARY   FORWARD THE WHITE, BLUE, AND PINK COPIES TO THE DEPARTMENT

USE TYPEWRITER OR BALL POINT PEN

State of Idaho
Department of Water Administration

WELL DRILLER'S REPORT

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

Received 1-15-73 D NA

1. WELL OWNER

Name Western Land & Cattle Co.

Address Mayfield, Idaho

Owner's Permit No. _____

2. NATURE OF WORK

☒ New well ☐ Deepened ☐ Replacement

☐ Abandoned (describe method of abandoning)

3. PROPOSED USE

☐ Domestic ☐ Irrigation ☒ Test

☐ Municipal ☐ Industrial ☐ Stock

4. METHOD DRILLED

☒ Cable ☐ Rotory ☐ Dug ☐ Other

5. WELL CONSTRUCTION

Diameter of hole 8 inches Total depth 82 feet

Casing schedule: ☒ Steel ☐ Concrete

Thickness	Diameter	From	To
.322 inches	8 inches	+1 feet	51 feet
.257 inches	5 inches	51 feet	68 feet
.257 inches	5 inches	68 feet	82 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 Johnson

Type Stainless Model No. _____

Diameter 6 Slot size 30 Set from 57 feet to 58 feet

Diameter 6 Slot size 35 Set from 58 feet to ~~82~~ 68 feet

Gravel packed? ☐ Yes ☒ No Size of gravel _____

Placed from _____ feet to _____ feet

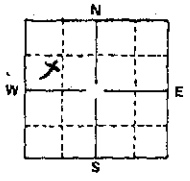
Surface seal? ☒ Yes ☐ No To what depth 20 feet

Material used in seal ☐ Cement grout ☐ Puddling clay

Bentonite

6. LOCATION OF WELL

Sketch map location must agree with written location.



County Elmore

SW¼ NW¼ Sec. 17, T. 1 N., R. 5 E.

7. WATER LEVEL

Static water level 12 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 ☐ Bailer ☐ Other

Discharge G.P.M.	Draw Down	Hours Pumped
25	15 ft.	4

108033

9. LITHOLOGIC LOG

Hole Diam.	Depth From	Depth To	Material	Water Yes	Water No
8	0	25	Topsoil		X
	25	40	pea gravel	X	
	40	65	red sand	X	
	65	69	sand & gravel	X	
	69	82	White Clay		X

10.

Work started Nov. 9-72 finished Dec. 1-72

11. DRILLER'S CERTIFICATION

This well was drilled under my supervision and this report is true to the best of my knowledge.

Engleman Well Drill. 47
Driller or Firm's Name Number

1309 Bond - Boise, Idaho
Address

Reg J Engleman 12-1-72
Signed By Date

USE ADDITIONAL SHEETS IF NECESSARY

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

Appendix E: General water quality data

Station	Analyte	Units	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2002	2003	2004	Maximum
01S 04E 23BBB1	Arsenic	ug/L	3				3				2				2.7	3
	Fecal Coliform	col/100 ml	<1				45				<1				<1	45
	Fluoride	mg/L	0.4				0.4				0.44				0.5	0.5
	Nitrate	mg/L	0.79				0.79				0.765				0.79	0.79
	Alpha, G	pCi/l	0.4				0.6									0.6
	Iron	ug/L	<3				<3				<10				<6	
	Manganese	ug/L	<1				<1				<2.2				<0.8	
	Solids	mg/L	134				163				161				147	163
01S 04E 17CCC2	Arsenic	ug/L	3				2				2				2	3
	Fecal Coliform	col/100 ml	22				<1				<1				<1	22
	Fluoride	mg/L	0.2				0.2				0.23				0.2	0.23
	Nitrate	mg/L	0.64				0.61				0.633				0.6	0.64
	Alpha, G	pCi/l	3				0.7									3
	Iron	ug/L	16				7				5.3				176	176
	Manganese	ug/L	2				<1				<3.0				9.8	9.8
	Solids	mg/L	182				178				181				176	182
01N 04E 32AAB1	Arsenic	ug/L	3				2				2				2.3	3
	Fecal Coliform	col/100 ml	<1				<1				<1				<1	
	Fluoride	mg/L	0.5				0.5				0.41				0.4	0.5
	Nitrate	mg/L	0.11				0.11				0.086				0.09	0.11
	Alpha, G	pCi/l	0.2				2.6									2.6
	Iron	ug/L	6				6				<10				6	6
	Manganese	ug/L	<1				<1				<3.0				<0.8	0
	Solids	mg/L	150				153				151				147	153
01N 04E 27CBD1	Arsenic	ug/L			2				3				3			3
	Fecal Coliform	col/100 ml			<1				<1				<1			
	Fluoride	mg/L			0.3				0.3				0.3			0.3
	Nitrate	mg/L			4.6				2.92				0.45			4.6
	Alpha, G	pCi/l			1.1											1.1
	Iron	ug/L			10				10				42			42
	Manganese	ug/L			2				1.2				1.2			2
	Solids	mg/L			185				185				162			185
01N 04E 23DDC1	Arsenic	ug/L	9													9
	Fecal Coliform	col/100 ml	2													2
	Fluoride	mg/L	0.3													0.3
	Nitrate	mg/L	0.29													0.29
	Alpha, G	pCi/l	0.1													0.1
	Iron	ug/L	6													6
	Manganese	ug/L	<1													
	Solids	mg/L	134													134
01N 04E 14DDAD1	Arsenic	ug/L				2				3				2.12		3
	Fecal Coliform	col/100 ml				<1				<1				<1		
	Fluoride	mg/L				0.3				0.31				0.3		0.31
	Nitrate	mg/L				2.5				3.05				2.7		3.05
	Alpha, G	pCi/l				1.7										1.7
	Iron	ug/L				<3				11				15.5		15.5
	Manganese	ug/L				<1				<4.0				1.2		1.2
	Solids	mg/L				153				160				0.21 (t/af)		160
01N 03E 11DDB1	Arsenic	ug/L		4				4				4.2				4.2
	Fecal Coliform	col/100 ml		<1				<1				<1				
	Fluoride	mg/L		0.3				0.3				0.3				0.3
	Nitrate	mg/L		0.49				0.56				0.459				0.56
	Alpha, G	pCi/l		1.7				1.1								1.7
	Iron	ug/L		<3				<3				<10				
	Manganese	ug/L		1				<1				<2				1
	Solids	mg/L		177				171				176				177

Table 1. Selected water quality results from wells near Mayfield Springs.

Appendix F: Water Rights Summary

Location	Type	Basin	Sequence	Suffix	Version	Basis	Status	Priority Date	Div. Rate (cfs)	Source List	Water Uses	Owner List
Applications												
T1N R4E 28, 29, 32NE, 33	Application	63	32225				Active	9/16/2005	10	GROUND WATER	MUNICIPAL	INTERMOUNTAIN SEWER & WATER CORP (Current)
SRBA Claims												
T1N R4E 28	Claim	63	3070			License	Active	12/13/1955	0.02	GROUND WATER	DOMESTIC, IRRIGATION, STOCKWATER	AGENBROAD, CARL S (Current); AGENBROAD, JUDITH A (Current)
T1N R4E 28, 29	Claim	63	4338			Statutory Claim	Active	1895-06-01		INDIAN CREEK	RECREATION STORAGE, WILDLIFE STORAGE	STATE OF IDAHO (Current)
T1N R4E 28, 29	Claim	63	4679			Statutory Claim	Active	1895-01-01		INDIAN CREEK	FISH PROPAGATION	STATE OF IDAHO (Current)
T1N R4E 29, 32NE	Claim	63	7571			License	Active	3/21/1972	0.09	GROUND WATER	COMMERCIAL	FRENCH, ROBERT L (Current)
T1N R4E 27SW, 28	Claim	63	8051			License	Active	10/17/1974	2.44	GROUND WATER	IRRIGATION	GABLE A RANCH (Current)
T1N R4E 27SW	Claim	63	21088			Beneficial Use	Active	1/1/1949	0.14	GROUND WATER	DOMESTIC, IRRIGATION, STOCKWATER	AGENBROAD, CARL S (Current); AGENBROAD, JUDITH A (Current)
Permits												
T1N R4E 27SW, 34NW	Permit	63	12494				Active	7/8/2004	0.16	GROUND WATER	DOMESTIC	DANSKIN PROPERTIES LTD (Current)
SRBA Recommendations												
T1N R4E 29, 32NE	Recommendation	63	7571		1	License	Active	3/21/1972	0.09	GROUND WATER	COMMERCIAL	FRENCH, ROBERT L (Current)
T1N R4E 27SW, 28	Recommendation	63	8051		1	License	Active	10/17/1974	2.44	GROUND WATER	IRRIGATION	GABLE A RANCH (Current)

Location	Type	Basin	Sequence	Suffix	Version	Basis	Status	Priority Date	Div. Rate (cfs)	Source List	Water Uses	Owner List
Statutory Claims, Decrees, and/or Licences												
T1N R4E 21SE	Statutory Claim, Decree and License	61	2328			License	Active	9/22/1958		UNNAMED STREAM	STOCKWATER STORAGE	UNITED STATES OF AMERICA ACTING THROUGH (Current)
T1N R4E 34NWNE	Statutory Claim, Decree and License	61	10110			Decreed	Active	4/29/1980	0.06	GROUND WATER	DOMESTIC, STOCKWATER	MILLER, PAMELA K (Current); MILLER, RONALD L (Current)
T1N R4E 34NW	Statutory Claim, Decree and License	61	10432			Decreed	Active	5/20/1977	0.04	GROUND WATER	DOMESTIC	ARNOLD, MAMIE L (Current)
T1N R4E 34NW	Statutory Claim, Decree and License	61	10433			Decreed	Active	10/10/1985	0.04	GROUND WATER	DOMESTIC	WALKER, LELA S (Current)
T1N R4E 34NWNE	Statutory Claim, Decree and License	61	10525			Decreed	Active	4/29/1980	0.06	GROUND WATER	DOMESTIC, STOCKWATER	BRUBAKER, CARL (Current); BRUBAKER, NANNETTE W (Current)
T1S R4E 4NW	Statutory Claim, Decree and License	61	11109			Decreed	Active	6/28/1934		UNNAMED STREAM	STOCKWATER FROM STORAGE, STOCKWATER STORAGE	UNITED STATES OF AMERICA ACTING THROUGH (Current)
T1N R4E 33	Statutory Claim, Decree and License	61	11110			Decreed	Active	6/28/1934		UNNAMED STREAM	STOCKWATER FROM STORAGE, STOCKWATER STORAGE	UNITED STATES OF AMERICA ACTING THROUGH (Current)
T1N R4E 28	Statutory Claim, Decree and License	63	3070			License	Active	12/13/1955	0.02	GROUND WATER	DOMESTIC, IRRIGATION, STOCKWATER	HANSEN, JESS T (Current)
T1N R4E 21SE	Statutory Claim, Decree and License	63	3662			Decreed	Active	5/5/1953		SHEEP CREEK	STOCKWATER FROM STORAGE, STOCKWATER STORAGE	UNITED STATES OF AMERICA ACTING THROUGH (Current)
T1N R4E 28, 29	Statutory Claim, Decree and License	63	4338			Statutory Claim	Active	1895-06-01	100	INDIAN CREEK	DIVERSION TO STORAGE, RECREATION STORAGE, WILDLIFE STORAGE	STATE OF IDAHO (Current)
T1N R4E 28, 29	Statutory Claim, Decree and License	63	4679			Statutory Claim	Active	1895-01-01		INDIAN CREEK	RECREATION STORAGE, WILDLIFE STORAGE	STATE OF IDAHO (Current)

Location	Type	Basin	Sequence	Suffix	Version	Basis	Status	Priority Date	Div. Rate (cfs)	Source List	Water Uses	Owner List
T1N R4E 32NE	Statutory Claim, Decree and License	63	7571			License	Active Transferred	3/21/1972	0.09	GROUND WATER	COMMERCIAL	PECON SHOPPE OF BOISE (Current); STUCKEYS (Current)
T1N R4E 27SW, 28	Statutory Claim, Decree and License	63	8051			License	Active	10/17/1974	2.44	GROUND WATER	IRRIGATION	GABLE A RANCH (Current)
T1N R4E 29, 32NE	Statutory Claim, Decree and License	63	10372			License	Active	7/28/1986	0.2	GROUND WATER	COMMERCIAL, DOMESTIC, FIRE PROTECTION, IRRIGATION	FRENCH, ROBERT L (Current)
T1N R4E 27SW	Statutory Claim, Decree and License	63	11382			License	Active	5/15/1990	0.22	GROUND WATER	DOMESTIC, IRRIGATION	DANSKIN PROPERTIES ASSN INC (Current)
T1N R4E 29	Statutory Claim, Decree and License	63	29541			Decreed	Active	6/28/1934	0.02	INDIAN CREEK	STOCKWATER	UNITED STATES OF AMERICA ACTING THROUGH (Current)
T1N R4E 20SE, 21SW, 29	Statutory Claim, Decree and License	63	29542			Decreed	Active	6/28/1934	0.02	UNNAMED STREAM	STOCKWATER	UNITED STATES OF AMERICA ACTING THROUGH (Current)
T1N R4E 29	Statutory Claim, Decree and License	63	29543			Decreed	Active	6/28/1934	0.02	UNNAMED STREAMS	STOCKWATER	UNITED STATES OF AMERICA ACTING THROUGH (Current)

RE-24 VACANT LAND REAL ESTATE PURCHASE AND SALE AGREEMENT AND RECEIPT FOR EARNEST MONEY

REALTOR®

THIS IS A LEGALLY BINDING CONTRACT. READ THE ENTIRE DOCUMENT INCLUDING ANY ATTACHMENTS. IF YOU HAVE ANY QUESTIONS, CONSULT YOUR ATTORNEY AND/OR ACCOUNTANT BEFORE SIGNING.

ID# 57119454

DATE 09/07/2005

LISTING AGENCY Windermere-Nampa

Listing Agent Anthony H. Miller E-Mail captainru@bigskytel.com Office Phone # (208) 468-7848 Fax #(208) 362-7654

SELLING AGENCY Windermere-Nampa Phone #

Selling Agent Anthony H. Miller E-Mail captainru@bigskytel.com Office Phone # (208) 468-7848 Fax #(208) 362-7654 Phone # 208-880-0560

1. BUYER: Greg Johnson and/or Assigns (Hereinafter called "BUYER") agrees to purchase, and the undersigned SELLER agrees to sell the following described real estate hereinafter referred to as "PREMISES" COMMONLY KNOWN AS TBD Mayfield Rd. City Boise County Ada ID, Zip 83716 Legally described as: Parcel #1833212400 of NW4 Sec 33 & of the SW4 Sec 28 T1N R4E to be more particularly described by survey. See attached addendum "A" OR Legal Description Attached as addendum #_____ (Addendum must accompany original offer.)

2. [redacted] PURCHASE PRICE: [redacted] DOLLARS, payable upon the following TERMS AND CONDITIONS (not including closing costs):

3. FINANCIAL TERMS: Note: A+C+D+E must add up to total purchase price.

[redacted] A. EARNEST MONEY: BUYER hereby deposits [redacted] DOLLARS as Earnest Money evidenced by: ☐cash ☒personal check ☐cashier's check ☐note (due date): ____ ☐other ____ and a receipt is hereby acknowledged. Earnest Money to be deposited in trust account ☐upon receipt, ☒ upon acceptance by all parties and shall be held by: ☒Listing Broker ☐Selling Broker ☐Other ____ for the benefit of the parties hereto. The responsible Broker shall be David Dykstra

B. ALL CASH OFFER: ☐NO ☒YES If this is an all cash offer do not complete lines Subsection C, fill blanks with "0" (Zero). IF CASH OFFER BUYER'S OBLIGATION TO CLOSE SHALL NOT BE SUBJECT TO ANY FINANCIAL CONTINGENCY, BUYER agrees to provide SELLER within ____ business days from the date of this agreement, evidence of sufficient funds and/or proceeds necessary to close transaction. Acceptable documentation includes, but is not limited to a copy of a recent bank or financial statement or contract(s) for the sale of BUYER'S current residence or other property to be sold.

$____ C. NEW LOAN PROCEEDS:

☐ FIRST LOAN of $____ not including mortgage insurance. This Agreement is contingent upon BUYER obtaining the following type(s) of financing: ☐FHA ☐VA ☐CONVENTIONAL ☐IHFA ☐RURAL DEVELOPMENT ☐OTHER____ with interest not to exceed ____% for a period of ____ year(s) at: ☐Fixed Rate ☐Other____. BUYER shall pay no more than ____ point(s) plus origination fee if any. SELLER shall pay no more than ____ point(s). Any reduction in points shall first accrue to the benefit of the ☐BUYER ☐SELLER ☐Divided Equally ☐N/A.

☐ SECOND LOAN of $____ for a period of ____ year(s) at: ☐Fixed Rate ☐Other____. BUYER shall pay no more than ____ point(s) plus origination fee if any. SELLER shall pay no more than ____ point(s). Any reduction in points shall first accrue to the benefit of the ☐BUYER ☐SELLER ☐Divided Equally ☐N/A.

LOAN APPLICATION: BUYER ☐has applied ☐ shall apply for such loan(s) within ____ business day(s) of SELLER'S acceptance. Within____ business days of final acceptance of all parties, BUYER agrees to furnish SELLER with a written confirmation showing lender approval of credit report, income verification, debt ratios in a manner acceptable to the SELLER(S) and subject only to satisfactory appraisal and final lender underwriting. If such written confirmation is not received by SELLER(S) within the strict time allotted, SELLER(S) may at their option cancel this agreement by notifying BUYER(S) in writing of such cancellation within ____ business day(s) after written confirmation was required. If SELLER does not cancel within the strict time period specified as set forth herein, SELLER shall be deemed to have accepted such written confirmation of lender approval and shall be deemed to have elected to proceed with the transaction. SELLER'S approval shall not be unreasonably withheld. If an appraisal is required by lender, the property must appraise at not less than purchase price or BUYER'S Earnest Money may be returned at BUYER'S request. *BUYER may also apply for a loan with different conditions and costs and close transaction provided all other terms and conditions of this Agreement are fulfilled, and the new loan does not increase the costs or requirements to the SELLER.*

FHA / VA: If applicable, it is expressly agreed that notwithstanding any other provisions of this contract, BUYER shall not be obligated to complete the purchase of the property described herein or to incur any penalty or forfeiture of Earnest Money deposits or otherwise unless BUYER has been given in accordance with HUD/FHA or VA requirements a written statement by the Federal Housing Commissioner, Veterans Administration or a Direct Endorsement lender setting forth the appraised value of the property of not less than the sales price as stated in the contract. SELLER agrees to pay fees required by FHA or VA.

BUYER'S Initials (GJ)(____) Date 9/7/05 SELLER'S Initials (WH)(____) Date 9/14/05

PROPERTY ADDRESS: TBD Mayfield Rd. Boise ID#: 57119454

D. ADDITIONAL FINANCIAL TERMS:

☐ Additional financial terms are specified under the heading "OTHER TERMS AND/OR CONDITIONS" (Section 4).

☐ Additional financial terms are contained in a FINANCING ADDENDUM of same date, attached hereto, signed by both parties.

$ 1,030,000 E. APPROXIMATE FUNDS DUE AT CLOSING: Cash at closing, not including closing costs, to be paid by BUYER at closing, in GOOD FUNDS, which includes: cash, electronic transfer funds, certified check or cashier's check. Any net difference between the approximate balances of the loan(s) shown above, which are to be assumed or taken subject to, and the actual balances of said loan(s) at closing of escrow shall be adjusted in ☒Cash ☐Other: _____

4. OTHER TERMS AND/OR CONDITIONS: See Attached Addendum "A"

5. "NOT APPLICABLE DEFINED:" The letters "n/a," "N/A," "n.a.," and "N.A." as used herein are abbreviations of the term "not applicable." Where this agreement uses the term "not applicable" or an abbreviation thereof, it shall be evidence that the parties have contemplated certain facts or conditions and have determined that such facts or conditions do not apply to the agreement or transaction herein.

6. INSPECTION: ***BUYER IS STRONGLY ADVISED TO INVESTIGATE THE CONDITION AND SUITABILITY OF ALL ASPECTS OF THE PROPERTY AND ALL MATTERS AFFECTING THE VALUE OR DESIRABILITY OF THE PROPERTY INCLUDING, BUT NOT LIMITED TO, THE FOLLOWING:***

A. SIZE: Square footage and lot size. (Any numerical statements regarding these items are APPROXIMATION ONLY, and have not been and will not be verified and should not be relied upon by BUYER.

B. LINES AND BOUNDARIES: Property lines and boundaries, septic, and leach lines (Fences, walls, hedges, and other natural or constructed barriers or markers do not necessarily identify true property boundaries. Property lines may be verified by surveys.)

C. ZONING AND LAND USE: Inquiries, investigations, studies or any other means concerning past, present or proposed laws, ordinances, referendums, initiatives, votes, applications and permits affecting the current use of the property, BUYER's intended use of the property, future development, zoning, building, size, governmental permits and inspections. Both parties are advised that Broker does not guarantee the status of permits, zoning or code compliance. The parties are to satisfy themselves concerning these issues.

D. UTILITIES AND SERVICE: Availability, costs, and restrictions of utilities and services, including but not limited to, sewage, sanitation, water, electricity, gas, telephone, cable TV and drainage.

E. UTILITIES, IMPROVEMENTS & OTHER RIGHTS: SELLER represents that the property does have the following utilities, improvements, services and other rights available (describe availability): none

F. HAZARDOUS MATERIALS: The real estate broker(s) or their agents in this transaction have no expertise with respect to toxic waste, hazardous materials or undesirable substances. BUYERS who are concerned about the presence of such materials should have the property inspected by qualified experts. BUYER acknowledges that he/she has not relied upon any representations by either the Broker or the SELLER with respect to the condition of the property that are not contained in this Agreement or in any disclosure statements.

G. TAX LIABILITY: The BUYER and SELLER acknowledge that they have not received or relied upon any statements or representations by the Broker with respect to the effect of this transaction upon BUYER's or SELLER's tax liability.

BUYER chooses ☐to have inspection; ☐not to have inspection. If BUYER chooses not to have inspection skip the remainder of section 6. BUYER shall have the right to conduct inspections, investigations, tests, surveys and other studies at BUYER'S expense. BUYER shall, within _____ business day(s) of acceptance, complete these inspections and give to SELLER written notice of items disapproved of. BUYER is strongly advised to exercise these rights and to make BUYER'S own selection of professionals with appropriate qualifications to conduct inspections of the entire property. BUYER'S acceptance of the condition of the property is a contingency of this Agreement.

SATISFACTION/REMOVAL OF INSPECTION CONTINGENCIES:

1. If BUYER does not within the strict time period specified give to SELLER written notice of items disapproved of, BUYER shall conclusively be deemed to have: (a) completed all inspections, investigations, review of applicable documents and disclosures; (b) elected to proceed with the transaction and (c) assumed all liability, responsibility and expense for repairs or corrections other than for items which SELLER has otherwise agreed in writing to repair or correct.

2. If BUYER does within the strict time period specified give to SELLER written notice of items disapproved of, BUYER shall provide to SELLER pertinent section(s) of written inspection reports. SELLER shall have _____ business day(s) in which to respond in writing. The SELLER, at their option, may correct the items as specified by the BUYERS in their letter or may elect not to do so. If the SELLER agrees to correct the items asked for in the BUYERS letter, then both parties agree that they will continue with the transaction and proceed to closing. This will remove the BUYERS inspection contingency.

BUYER'S Initials _____ Date 9/7/05 SELLER'S Initials _____ Date 9/14/05

PROPERTY ADDRESS: TBD Mayfield Rd. Boise ID#: 57119464

3. If the SELLER elects not to correct the disapproved items, then the BUYER(S) have the option of either continuing the transaction without the SELLER being responsible for correcting these deficiencies or giving the SELLER written notice within _____ business days that they will not continue with the transaction and will receive their Earnest Money back.

4. If SELLER does not respond within the strict time period specified, BUYER shall have the right to cancel this agreement in writing.

5. If BUYER does not give such written notice of cancellation within the strict time periods specified, BUYER shall conclusively be deemed to have elected to proceed with the transaction without repairs or corrections other than for items which SELLER has otherwise agreed in writing to repair or correct.

SELLER shall make the property available for all inspections. BUYER shall keep the property free and clear of liens; indemnify and hold SELLER harmless from all liability, claims, demands, damages and costs; and repair any damages arising from the inspections. No inspections may be made by any governmental building or zoning inspector or government employee without the prior consent of SELLER, unless required by local law.

7. TITLE CONVEYANCE: Title of SELLER is to be conveyed by warranty deed, unless otherwise provided, and is to be marketable and insurable except for rights reserved in federal patents, state or railroad deeds, building or use restrictions, building and zoning regulations and ordinances of any governmental unit, and rights of way and easements established or of record. Liens, encumbrances or defects to be discharged by SELLER may be paid out of purchase money at date of closing. No liens, encumbrances or defects, which are to be discharged or assumed by BUYER or to which title is taken subject to, exist unless otherwise specified in this Agreement.

8. TITLE INSURANCE:

(A) TITLE COMMITMENT: Prior to closing the transaction, ☒ SELLER or ☐ BUYER shall furnish to BUYER a commitment of a title insurance policy showing the condition of the title to said premises. BUYER shall have 10 business day(s) from receipt of the commitment or not less than twenty-four (24) hours prior to closing, within which to object in writing to the condition of the title as set forth in the commitment. If BUYER does not so object, BUYER shall be deemed to have accepted the condition of the title. It is agreed that if the title of said premises is not marketable, or cannot be made so within 10 business day(s) after notice containing a written statement of defect is delivered to SELLER, BUYER's Earnest Money deposit will be returned to BUYER and SELLER shall pay for the cost of title insurance cancellation fee, escrow and legal fees, if any.

(B) TITLE COMPANY: The parties agree that Lawyers Title Company located at Emerald-Boise shall provide title policy and preliminary report of commitment.

(C) STANDARD COVERAGE OWNER'S POLICY: SELLER shall within a reasonable time after closing furnish to BUYER a title insurance policy in the amount of the purchase price of the premises showing marketable and insurable title subject to the liens, encumbrances and defects elsewhere set out in this Agreement to be discharged or assumed by BUYER. The risk assumed by the title company in the standard coverage policy is limited to matters of public record.

(D) EXTENDED COVERAGE LENDER'S POLICY (Mortgagee policy): The lender may require that BUYER (Borrower) furnish an Extended Coverage Lender's Policy. This extended coverage lender's policy considers matters of public record and additionally insures against certain matters not shown in the public record. This extended coverage lender's policy is solely for the benefit of the lender and only protects the lender.

(E) EXTENDED COVERAGE OWNER'S POLICY: A standard title policy does not cover certain potential problems or risks such as liens (i.e. a legal claim against premises for payment of some debt or obligation, boundary disputes, claims of easement and other matters of claims if they are not of public record at time of closing.) However, under Idaho law, such potential claims against the premises may have become legal obligations before the purchase of the home and yet may not be of public record until after the purchase. It is recommended that BUYER talk to a title company about what it offers in the way of extended coverage title policies and endorsements. This extended coverage owner's policy is for the benefit of the owner and provides similar coverage like provided by the extended coverage lender's policy.

Extended Coverage Owner's Policy requested ☐Yes ☒No. Additional premium paid by: ☐BUYER ☐SELLER.

9. ATTORNEY'S FEES: If either party initiates or defends any arbitration or legal action or proceedings which are in any way connected with this Agreement, the prevailing party shall be entitled to recover from the non-prevailing party reasonable costs and attorney's fees, including such costs and fees on appeal.

10. EARNEST MONEY DISPUTE / INTERPLEADER: Notwithstanding any termination of this contract, BUYER and SELLER agree that in the event of any controversy regarding the Earnest Money and things of value held by Broker or closing agency, unless mutual written instructions are received by the holder of the Earnest Money and things of value, Broker or closing agency shall not be required to take any action but may await any proceeding, or at Broker's or closing agency's option and sole discretion, may interplead all parties and deposit any moneys or things of value into a court of competent jurisdiction and shall recover court costs and reasonable attorney's fees.

11. COVENANTS, CONDITIONS AND RESTRICTIONS (CC& R'S): BUYER is responsible to obtain and review a copy of the CC& R's (if applicable). BUYER has reviewed CC& R's. ☐Yes ☐No ☒N/A

12. SUBDIVISION HOMEOWNER'S ASSOCIATION: BUYER is aware that membership in a Home Owner's Association may be required and BUYER agrees to abide by the Articles of Incorporation, By-Laws and rules and regulations of the Association. BUYER is further aware that the Property may be subject to assessments levied by the Association described in full in the Declaration of Covenants, Conditions and Restrictions, BUYER has reviewed Homeowner's Association Documents: ☐Yes ☐No ☒N/A Association fees/dues are $_____ per _____ ☐BUYER ☐SELLER ☒N/A to pay Homeowner's Association SET UP and/or Property TRANSFER FEES of $_____, at closing.

BUYER'S Initials (_____) Date 9/14/05 SELLER'S Initials (_____) Date 9/14/05

PROPERTY ADDRESS: TBD Mayfield Rd. Boise ID#: 57119454

13. FARM/CROPS/TIMBER RIGHTS: SELLER, or any tenant of SELLER, shall be allowed to harvest, sell or assign any annual crops which have been planted on the Property prior to the date of this Contract, even though said harvest time may occur subsequent to the date of the settlement of this contract, unless otherwise agreed by attached addendum. If the crop consists of timber, then neither SELLER nor any tenant of SELLERs shall have any right to harvest the timber unless the right to remove same shall be established by attached addendum. Notwithstanding the provisions hereof, any tenant who shall be leasing the Property shall be allowed to complete the harvest of any annual crops that have been planted prior to the date of Contract Acceptance as previously agreed between SELLER and Tenant. ANY AND ALL SUCH TENANT AGREEMENTS ARE TO BE ATTACHED.

14. NOXIOUS WEEDS: BUYER of the property in the State of Idaho should be aware that some properties contain noxious weeds. The laws of the State of Idaho require owners of property within this state to control, and to the extent possible, eradicate noxious weeds. For more information concerning noxious weeds and your obligations as an owner of property, contact your local county extension office.

15. MINERAL RIGHTS: Any and all mineral rights which are already included with the property will be included in the sale of this property unless otherwise stipulated.

16. WATER RIGHTS: Description of water rights, water systems, wells, springs, water, ditches, ditch rights, etc., if any, that are appurtenant thereto that are now on or used in connection with the premises and shall be included in the sale unless otherwise provided herein:

17. RISK OF LOSS: Prior to closing of this sale, all risk of loss shall remain with SELLER. In addition, should the premises be materially damaged by fire or other destructive cause prior to closing, this Agreement shall be voidable at the option of BUYER.

18. BUSINESS DAYS & HOURS: A business day is herein defined as Monday through Friday, 8:00 A.M. to 5:00 P.M. in the local time zone where the subject real property is physically located. A business day shall not include any Saturday or Sunday, nor shall a business day include any legal holiday recognized by the state of Idaho as found in Idaho Code § 73-108. The time in which any act required under this agreement is to be performed shall be computed by excluding the date of execution and including the last day. The first day shall be the day after the date of execution. If the last day is a legal holiday, then the time for performance shall be the next subsequent business day.

19. SEVERABILITY: In the case that any one or more of the provisions contained in this Agreement or any application thereof, shall be invalid, illegal or unenforceable in any respect, the validity, legality or unenforceability of the remaining provisions shall not in any way be affected or impaired thereby.

20. FACSIMILE TRANSMISSION: Facsimile or electronic transmission of any signed original document, and retransmission of any signed facsimile or electronic transmission shall be the same as delivery of an original. At the request of either party or the Closing Agency, the parties will confirm facsimile and electronic transmitted signatures by signing an original document.

21. ADDITIONAL CONTINGENCIES AND COSTS: The closing of this transaction is contingent upon written satisfaction or waiver of the following contingencies. Costs in addition to those listed below may be incurred by BUYER and SELLER unless otherwise agreed herein, or provided by law or required by lender, or otherwise stated herein. The below costs will be paid as indicated and by no later than time of closing. Some costs are subject to loan program requirements. In addition, the parties shall satisfy all contingencies set forth in this section by (Date):_____ unless otherwise agreed to by the parties.

COSTS	BUYER	SELLER	Shared Equally	Not Applicable
Appraisal Fee				X
Long Term Escrow Fee				X
Closing Escrow Fee			X	
Survey	X			
Flood Certification/Tracking Fee				X
Title Ins. Standard Coverage Owner's Policy		X		
Title Ins. Extended Coverage Lender's Policy – Mortgagee Policy				X
Additional Title Coverage				X
Water Rights Transfer Fee				X
Attorney Contract Preparation Fee				X

CONTINGENCIES	BUYER	SELLER	Shared Equally	Not Applicable
Environmental Inspection (Phase 1)				X
Environmental Inspection (Phase 2)				X
Environmental Inspection (Phase 3)				X
PSRS Test				X
Zoning Variance				X
Soil(s) Test(s)				X
Hazardous Waste Report(s)				X

BUYER'S Initials (JE)(_____) Date 9/7/05 SELLER'S Initials (AA)(_____) Date 9/14/05

PROPERTY ADDRESS: TBD Mayfield Rd. Boise ID#: 57119454

22. COUNTERPARTS: This Agreement may be executed in counterparts. Executing an agreement in counterparts shall mean the signature of two identical copies of the same agreement. Each identical copy of an agreement signed in counterparts is deemed to be an original, and all identical copies shall together constitute one and the same instrument.

23. ENTIRE AGREEMENT: This Agreement contains the entire Agreement of the parties respecting the matters herein set forth and supersedes all prior Agreements between the parties respecting such matters. No warranties, including, without limitation, any warranty of habitability, agreements or representations not expressly set forth herein shall be binding upon either party.

24. DEFAULT: If BUYER defaults in the performance of this Agreement, SELLER has the option of: (1) accepting the Earnest Money as liquidated damages or (2) pursuing any other lawful right or remedy to which SELLER may be entitled. If SELLER elects to proceed under (1), SELLER shall make demand upon the holder of the Earnest Money, upon which demand said holder shall pay from the Earnest Money the costs incurred by SELLER's Broker on behalf of SELLER and BUYER related to the transaction, including, without limitation, the costs of title insurance, escrow fees, credit report fees, inspection fees and attorney's fees; and said holder shall pay any balance of the Earnest Money, one-half to SELLER and one-half to SELLER's Broker, provided that the amount to be paid to SELLER's Broker shall not exceed the Broker's agreed-to commission. SELLER and BUYER specifically acknowledge and agree that if SELLER elects to accept the Earnest Money as liquidated damages, such shall be SELLER's sole and exclusive remedy, and such shall not be considered a penalty or forfeiture. If SELLER elects to proceed under (2), the holder of the Earnest Money shall be entitled to pay the costs incurred by SELLER's Broker on behalf of SELLER and BUYER related to the transaction, including, without limitation, the costs of brokerage fee, title insurance, escrow fees, credit report fees, inspection fees and attorney's fees, with any balance of the Earnest Money to be held pending resolution of the matter.

If SELLER defaults, having approved said sale and fails to consummate the same as herein agreed, BUYER's Earnest Money deposit shall be returned to him/her and SELLER shall pay for the costs of title insurance, escrow fees, credit report fees, inspection fees, brokerage fees and attorney's fees, if any. This shall not be considered as a waiver by BUYER of any other lawful right or remedy to which BUYER may be entitled.

25. SALES PRICE INFORMATION: SELLER and BUYER hereby grant permission to the brokers and either party to this Agreement to disclose sale data from this transaction, including selling price and property address to the local Association / Board of REALTORS®, multiple listing service, its members, its members' prospects, appraisers and other professional users of real estate sales data. The parties to this Agreement acknowledge that sales price information compiled as a result of this Agreement may be provided to the County Assessor's Office by either party or by either party's Broker.

26. TIME IS OF THE ESSENCE IN THIS AGREEMENT.

27. CLOSING: On or before the closing date, BUYER and SELLER shall deposit with the closing agency all funds and instruments necessary to complete this transaction. Closing means the date on which all documents are either recorded or accepted by an escrow agent and the sale proceeds are available to SELLER. The closing shall be no later than (Date) September 14th, 2006. The parties agree that the CLOSING AGENCY for this transaction shall be Lawyers Title located at Emerald-Boise. If a long-term escrow / collection is involved, then the long-term escrow holder shall be n/a

28. POSSESSION: BUYER shall be entitled to possession ☒ upon closing or ☐ date ________ at ________ ☐am/☐pm. Property taxes and water assessments (using the last available assessment as a basis), rents, interest and reserves, liens, encumbrances or obligations assumed and utilities shall be pro-rated as of closing

29. SPECIAL CONSIDERATIONS AND CONTINGENCIES: This Agreement is made subject to the following special considerations and/or contingencies which must be satisfied prior to closing: ________

30. REPRESENTATION CONFIRMATION: Check one (1) box in Section 1 and one (1) box in Section 2 below to confirm that in this transaction, the brokerage(s) involved had the following relationship(s) with the BUYERS(s) and SELLER(s).

Section 1:
- ☐ A. The brokerage working with the BUYER(S) is acting as an AGENT for the BUYER(S).
- ☒ B. The brokerage working with the BUYER(S) is acting as a LIMITED DUAL AGENT for the BUYER(S), without an ASSIGNED AGENT.
- ☐ C. The brokerage working with the BUYER(S) is acting as a LIMITED DUAL AGENT for the BUYER(S) and has an ASSIGNED AGENT acting solely on behalf of the BUYER(S).
- ☐ D. The brokerage working with the BUYER(S) is acting as a NONAGENT for the BUYER(S).

Section 2:
- ☐ A. The brokerage working with the SELLER(S) is acting as an AGENT for the SELLER(S).
- ☒ B. The brokerage working with the SELLER(S) is acting as a LIMITED DUAL AGENT for the SELLER(S), without an ASSIGNED AGENT.
- ☐ C. The brokerage working with the SELLER(S) is acting as a LIMITED DUAL AGENT for the SELLER(S) and has an ASSIGNED AGENT acting solely on behalf of the SELLER(S).
- ☐ D. The brokerage working with the SELLER(S) is acting as a NONAGENT for the SELLER(S).

Each party signing this document confirms that he has received, read and understood the Agency Disclosure Brochure adopted or approved by the Idaho real estate commission and has consented to the relationship confirmed above. In addition, each party confirms that the brokerage's agency office policy was made available for inspection and review. EACH PARTY UNDERSTANDS THAT HE IS A "CUSTOMER" AND IS NOT REPRESENTED BY A BROKERAGE UNLESS THERE IS A SIGNED WRITTEN AGREEMENT FOR AGENCY REPRESENTATION.

BUYER'S Initials (________)(________) Date 9/12/05 SELLER'S Initials (________)(________) Date 9/14/05

PROPERTY ADDRESS: TBD Mayfield Rd. Boise ID#: 57119454

31. ACCEPTANCE: BUYER'S offer is made subject to the acceptance of SELLER on or before (Date) 9/15/06 at (Time) 9:00 ☐ A.M. ☒ P.M. If SELLER does not accept this Agreement within the time specified, the entire Earnest Money shall be refunded to BUYER on demand.

32. BUYER'S SIGNATURES:

☒ SEE ATTACHED BUYER'S ADDENDUM(S): A (Specify number of BUYER addendum(s) attached.)

BUYER Signature [signature] BUYER (Print Name)

Date 9/2/05 Time 3:00 ☐ A.M. ☒ P.M. Phone # Cell #

Address City State Zip

E-Mail Address Fax #

BUYER Signature BUYER (Print Name)

Date Time ☐ A.M. ☐ P.M. Phone # Cell #

Address City State Zip

E-Mail Address Fax #

33. SELLER'S SIGNATURES:

On this date, I/We hereby approve and accept the transaction set forth in the above Agreement and agree to carry out all the terms thereof on the part of the SELLER.

☒ SIGNATURE(S) SUBJECT TO ATTACHED COUNTER OFFER

☐ SIGNATURE(S) SUBJECT TO ATTACHED ADDENDUM(S) #

SELLER Signature [signature] SELLER (Print Name)

Date 9.14.2005 Time ☐ A.M. ☐ P.M. Phone # Cell #

Address 5519 E. Groves Ave. City State Zip

E-Mail Address h122smt@webtv.net Fax #

SELLER Signature SELLER (Print Name)

Date Time ☐ A.M. ☐ P.M. Phone # Cell #

Address City State Zip

E-Mail Address Fax #

RE-11 ADDENDUM JULY, 2005 EDITION PAGE 1 OF 1

RE-11 ADDENDUM # A (1,2,3, etc.)

Date: 9/7/05

THIS IS A LEGALLY BINDING CONTRACT. READ THE ENTIRE DOCUMENT INCLUDING ANY ATTACHMENTS. IF YOU HAVE ANY QUESTIONS, CONSULT YOUR ATTORNEY AND/OR ACCOUNTANT BEFORE SIGNING.

This is an **ADDENDUM** to the Purchase and Sale Agreement and Receipt for Earnest Money.
("Addendum" means that the information below is added material for the agreement (such as lists or descriptions) and/or means the form is being used to change, correct or revise the agreement (such as modification, addition or deletion of a term)).

PURCHASE AND SALE AGREEMENT DATED: 9/7/05

ADDRESS: TBD Mayfield Rd. ID# 57119454

BUYER(S): Greg Johnson and/or Assigns

SELLER(S): Helen Agenbroad

The undersigned parties hereby agree as follows:

1. The purchase price for the property in this agreement is based on 135 acres priced at [redacted] per acre. The final purchase price will be determined, based on the total number of acres (as determined by survey), multiplied by [redacted] per acre..
2. Earnest money to be released to Seller within 10 business days of mutual acceptance of this agreement. earnest money to be non-refundable except in the event of a default by Seller. Should Buyer fail to close according to the terms of this agreement, Seller will accept the earnest money as liquidated damages and as Seller's sole and exclusive remedy with no further recourse by either party.
3. Buyer agrees to cooperate in Seller's 1031 exchange.
4. All parties to this agreement agree not to disclose price, terms, Buyer's identity or Buyer's intended purpose to any outside party other than those necessary to complete this transaction.

To the extent the terms of this **ADDENDUM** modify or conflict with any provisions of the Purchase and Sale Agreement including all prior Addendums or Counter Offers, these terms shall control. **All other terms of the Purchase and Sale Agreement including all prior Addendums or Counter Offers not modified by this ADDENDUM shall remain the same.** Upon its execution by both parties, this agreement is made an integral part of the aforementioned Agreement.

BUYER: [signature] Date: 9/7/05

BUYER: _____ Date: _____

SELLER: _____ Date: _____

SELLER: [signature] Date: 9-14-2005

AGENBROAD

RE-13 COUNTER OFFER, JULY, 2005 EDITION Page 1 of 1

REALTOR®

RE-13 COUNTER OFFER # 1 (1, 2, 3, etc.)

THIS COUNTER OFFER SUPERCEDES ALL PRIOR COUNTER OFFERS

THIS IS A LEGALLY BINDING CONTRACT. READ THE ENTIRE DOCUMENT INCLUDING ANY ATTACHMENTS. IF YOU HAVE ANY QUESTIONS, CONSULT YOUR ATTORNEY AND/OR ACCOUNTANT BEFORE SIGNING.

This is a COUNTER OFFER to the Purchase and Sale Agreement Dated: 9/7/05

ADDRESS: TBD Mayfield Rd. ID# 57119454

BUYER: Greg Johnson and/or Assigns

SELLER: Helen L. Agenbroad

The parties accept all of the terms and conditions in the above-designated Purchase and Sale Agreement with the following changes:

☒ This is a SELLER counter offer. The SELLER reserves the right to withdraw this offer or accept any other offers prior to the receipt of a true copy of signed acceptance of this Counter Offer within the time frame specified herein.

☐ This is a BUYER counter offer. The undersigned BUYER reserves the right to withdraw this offer at any time prior to the receipt of a true copy of signed acceptance of this Counter Offer within the time frame specified herein.

1. Earnest money to be $100,000.00.

2. That parcel of land lying in the N 1/2 of the NE 1/4 of Section 32 T1N R4E east of Interstate 84 in parcel #81633212400 (to be more particularly described by survey) is included in this sale.

3. Paragraph # 31 "Acceptance" is extended to 9/15/05 at 8:00 P.M.

4. In the event of Buyer's default, no commission will be paid.

5. In the event of Seller's default, no commission will be paid.

To the extent the terms of this Counter Offer modify or conflict with any provisions of the Purchase and Sale Agreement including all prior Addendums, the terms in this Counter Offer shall control. All other terms of the Purchase and Sale Agreement including all prior Addendums not modified by this Counter Offer shall remain the same. **Buyer and Seller acknowledge the down payment and/or loan amount on Page 1 of Purchase & Sale Agreement may change if purchase price is changed as part of this Counter Offer.** Upon its execution by both parties, this agreement is made an integral part of the aforementioned Agreement.

If a signed acceptance is not delivered on or before (date:) 9/15/05 at 8:00 ☐A.M. ☒P.M. this Counter Offer shall be deemed to have expired.

DELIVERY: Delivery shall be to the agent/broker working with the maker of the Counter Offer in person, by mail, facsimile or electronic transmission of any signed original document, and retransmission of any signed original document. Retransmission of any signed facsimile or electronic transmission shall be deemed to be the same as delivery of an original.

SELLER Helen Agenbroad Date 9/14/05 Time ☐A.M. ☐P.M.

SELLER Date Time ☐A.M. ☐P.M.

BUYER Gregory B. Johnson Date 9/15/05 Time 11:40 ☐A.M. ☐P.M.

BUYER Date Time ☐A.M. ☐P.M.

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Scan 16

A Pioneer Company
PIONEER TITLE COMPANY
OF ADA COUNTY
8151 W. Rifleman Ave. / Boise, Idaho 83704
(208) 377-2700

ADA COUNTY RECORDER J. DAVID NAVARRO AMOUNT 6.00 2
BOISE IDAHO 08/15/05 04:02 PM
DEPUTY Bonnie Oberbillig
RECORDED – REQUEST OF
Pioneer
105114437

READ AND APPROVED BY

WARRANTY DEED

For Value Received North Valley Land, LLC an Idaho Limited Liability Company

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

Gregory B Johnson and Heidi Johnson, Husband and Wife as to an undivided 65% interest, Scott B. Merrill, a married man as to an undivided 17.5% interest, and Spencer B. Merrill, a married man as to an undivided 17.5% interest

hereinafter referred to as Grantee, whose current address is 660 Franklin Road, Suite 240, Meridian, ID 83642

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, his heirs and assigns forever. And the said Grantor does hereby covenant to and with the said Grantee, that Grantor is the owner in fee simple of said premises; that said premises are free from all encumbrances except current years taxes, levies, and assessments, and except U.S. Patent reservations, restrictions, easements of record, and easements visible upon the premises, and that Grantor will warrant and defend the same from all claims whatsoever.

Dated: August 11, 2005

North Valley Land, LLC

By: _____
Colin Connell, Manager

STATE OF IDAHO, County of Ada, ss

On this 15th day of August, in the year of 2005, before me Susan J. Merritt, a notary public, personally appeared Colin Connell, known or identified to be one of the member(s)/manager(s) in a limited liability company, of * and the member(s)/manager(s) who subscribed said limited liability company name to the foregoing instrument, and acknowledged to me that he/she/they executed the same in said limited liability company name.

SUSAN J. MERRITT NOTARY PUBLIC STATE OF IDAHO

Susan J. Merritt
Notary Public of Idaho
Residing at Caldwell, ID
Commission expires: May 5, 2011

EXHIBIT A

PARCEL I:

That portion of the Southwest quarter of the Southeast quarter of Section 28, Township 1 North, Range 4 East, Boise Meridian, Ada County, Idaho, lying Southwesterly of Old State Highway 20, 26 & 30, said highway described in Deed recorded December 4, 1929 in Book 192 of Deeds at page 138, Instrument No. 137754, records of Ada County, Idaho.

PARCEL II:

The South half of the Northwest quarter lying Northeasterly of Interstate 84 North as described in Deed recorded May 14, 1959 in Book 455 of Deeds at page 347, Instrument No. 454300, records of Ada County, Idaho.
And the North half of the Southwest quarter lying Northeasterly of Interstate 84 North as described in Deed recorded May 14, 1959 in Book 455 of Deeds at page 347, Instrument No. 454300, records of Ada County, Idaho.
And The North half of the Southeast quarter lying Southwesterly of old U.S. Highway 20, 26 and 30, as described in Deed recorded December 4, 1929 in Book 192 of Deeds at page 138, Instrument No. 137754, records of Ada County, Idaho.
And the Northeast quarter lying Southwesterly of Old U.S. Highway 20, 26 & 30, as described in Deed recorded December 4, 1929 in Book 192 of Deeds at page 138, Instrument No. 137754, records of Ada County, Idaho, all being a portion of Section 33, Township 1 North, Range 4 East, Boise Meridian, Ada County, Idaho.

EXCEPT that portion located in the East half of Section 33, Township 1 North, Range 4 East, Boise Meridian, Ada County, Idaho, more particularly described as follows:

Beginning at the brass cap marking the East quarter corner of said Section 33, Township 1 North, Range 4 East, the **REAL POINT OF BEGINNING**.

Thence along the East section line of said Section 33, South 00 degrees 13'58" West, 1322.04 feet;
Thence North 89 degrees 50'07" West, 1364.94 feet;
Thence North 00 degrees 16'17" East, 3271.02 feet to a point on the Southwesterly right of way of a 100 feet wide State Highway Corridor;
Thence along said right of way line, South 43 degrees 49'04" East, 1596.31 feet to a concrete monument marking the beginning of a curve to the right;
Thence along said 5000.00 foot radius curve, through a central angle of a 4 degrees 23'36", a distance of 379.56 feet to a point on the East section line of said Section 33;
Thence along said East section line South 00 degrees 16'20" West, 517.42 feet to the **REAL POINT OF BEGINNING**.

Miller -40

258032
Sem/bc

A Pioneer Company
PIONEER TITLE COMPANY
OF ADA COUNTY
8151 W. Rifleman Ave. / Boise, Idaho 83704
(208) 377-2700

ADA COUNTY RECORDER J. DAVID NAVARRO AMOUNT 3.00 1
BOISE IDAHO 07/27/05 02:34 PM
DEPUTY Bonnie Oberbillig
RECORDED – REQUEST OF
Pioneer
105102783

WARRANTY DEED

For Value Received M R Miller Inc, an Idaho corporation

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

Gregory B Johnson and Heidi M Johnson, Husband and Wife

hereinafter referred to as Grantee, whose current address is P.O. Box 344, Meridian, Id 83680

the following described premises, to-wit:

The Southeast quarter of the Southeast quarter of Section 33, Township 1 North, Range 4 East, Boise Meridian, Ada County, Idaho.

To HAVE AND TO HOLD the said premises, with their appurtenances unto the said Grantee, his heirs and assigns forever. And the said Grantor does hereby covenant to and with the said Grantee, that Grantor is the owner in fee simple of said premises; that said premises are free from all encumbrances except current years taxes, levies, and assessments, and except U.S. Patent reservations, restrictions, easements of record, and easements visible upon the premises, and that Grantor will warrant and defend the same from all claims whatsoever.

Dated: July 15, 2005

M R Miller Inc

By: Michael R Miller
Michael R. Miller, President

STATE OF Idaho, County of Ada, ss.

On this 26 day of July, in the year of 2005, before me the undersigned, a notary public, personally appeared Michael R. Miller known or identified to me to be the President of the corporation that executed the instrument or the person/persons who executed the instrument on behalf of said corporation, and acknowledged to me that such corporation executed the same.

SUSAN J. MERRITT NOTARY PUBLIC STATE OF IDAHO

Susan J. Merritt
Susan J. Merritt
Notary Public of Idaho
Residing at Caldwell
Commission expires: May 5, 2011

Lester, Steve

From: Terry Scanlan [TScanlan@spfwater.com]

Sent: Tuesday, April 11, 2006 12:24 PM

To: Lester, Steve

Subject: App 63-32225 for Intermountain Sewer and Water Corporation

Steve –

The deed for the Helmick property that I sent to you with the additional information for application 63-32225 was incorrect. The deed submitted was for a site outside of the proposed place of use. The correct deed is attached. Sorry for any confusion.

Terry

04/11/2006 09:42 208888...47 PAGE 02

THE WESTPARK CO
ADA COUNTY RECORDER J. DAVID NAVARRO AMOUNT 6.00
BOISE IDAHO 11/22/05 02:36 PM
DEPUTY Patti Thompson
RECORDED--REQUEST OF
Pioneer
105177772

235642
SRM/GL

PTC Pioneer Title Co.

GOING BEYOND

8151 W. Rifleman Ave. / Boise, Idaho 83704 / (208) 377-2700

WARRANTY DEED

For Value Received Keith O. Helmick, also known as Neil Helmick and Sandra R. Helmick, also known as Sandy Helmick, Husband and Wife

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

Gregory B. Johnson and Heidi M. Johnson, Husband and Wife

hereinafter referred to as Grantee, whose current address is P.O.Box 344, Meridian, Idaho 83680 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, his heirs and assigns forever. And the said Grantor does hereby covenant to and with the said Grantee, that Grantor is the owner in fee simple of said premises; that said premises are free from all encumbrances except current years taxes, levies, and assessments, and except U.S. Patent reservations, restrictions, easements of record, and easements visible upon the premises, and that Grantor will warrant and defend the same from all claims whatsoever.

Dated: November 21, 2005

Keith O Helmick
Keith O. Helmick

Sandra R. Helmick
Sandra R. Helmick

STATE OF Idaho. County of Ada, ss.

On this 21st day of November, in the year of 2005, before me the undersigned, notary public personally appeared Keith O. Helmick and Sandra R. Helmick known or identified to me to be the person/persons whose name is/are subscribed to the within instrument, and acknowledged to me that he/she/they executed the same.

SUSAN J. MERRITT NOTARY PUBLIC STATE OF IDAHO

Susan M.Merritt
Notary Public of Idaho
Residing at Caldwell
Commission expires: May 5, 2011

EXHIBIT A

The Northeast quarter, the North half of the Southeast quarter, the Southeast quarter of the Northwest quarter and Northeast quarter of the Southwest quarter of Section 28, Township 1 North, Range 4 East, Boise Meridian, in Ada County, Idaho.

EXCEPTING from said Northeast quarter Southwest quarter that property deed to the State of Idaho by Warranty Deed recorded May 4, 1959 in Book 454 of Deeds at page 534 as Instrument No. 453382 for the Mayfield Access Road.

ALSO EXCEPTING, from said Northeast ¼ Southwest ¼ lying within the right-of-way for Old Highway 30 as described in Deed to the State of Idaho, recorded in Book 194 of Deeds at Page 46, records of Ada County, Idaho.

54

252203
Stem/bl

ADA COUNTY RECORDER J. DAVID NAVARRO AMOUNT 6.00 2
BOISE IDAHO 11/22/05 10:54 AM
DEPUTY Vicki Allen
RECORDED--REQUEST OF
Pioneer
105177557

PIC Pioneer Title Co.

GOING BEYOND

8151 W. Rifleman Ave. / Boise, Idaho 83704 / (208) 377-2700

WARRANTY DEED

For Value Received Keith O. Helmick, also known as Neil Helmick, also shown of record as Keith O'Neil Helmick and Sandra R. Helmick, also known as Sandy R. Helmick, Husband and Wife hereinafter referred to as Grantor, does hereby grant, bargain, sell, warrant and convey unto

Gregory B. Johnson and Heidi M. Johnson, Husband and Wife

hereinafter referred to as Grantee, whose current address is P.O. Box 344, Meridian, Idaho 83680 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, his heirs and assigns forever. And the said Grantor does hereby covenant to and with the said Grantee, that Grantor is the owner in fee simple of said premises; that said premises are free from all encumbrances except current years taxes, levies, and assessments, and except U.S. Patent reservations, restrictions, easements of record, and easements visible upon the premises, and that Grantor will warrant and defend the same from all claims whatsoever.

Dated: November 21, 2005

Keith O Helmick
Keith O. Helmick

Sandra R. Helmick
Sandra R. Helmick

STATE OF Idaho. County of Ad, ss.

On this 21st day of November, in the year of 2005, before me the undersigned, notary public personally appeared Keith O. Helmick and Sandra R.Helmick known or identified to me to be the person/persons whose name is/are subscribed to the within instrument, and acknowledged to me that he/she/they executed the same.

SUSAN J. MERRITT NOTARY PUBLIC STATE OF IDAHO

Susan J. Merritt
Susan J. Merritt
Notary Public of Idaho
Residing at Caldwell
Commission expires: May 5, 2011

EXHIBIT A

PARCEL I

The North 30 feet of the Northeast quarter of Section 17, Township 1 South, Range 4 East, Boise Meridian, Ada County, Idaho.

EXCEPTING THEREFROM that property Deeded to the State of Idaho in Deed recorded November 23, 1959 in Book 463 of Deeds at page 110, Instrument No. 467761 for the Orchard Access Road.

PARCEL II

The Northeast quarter of Section 17, Township 1 South, Range 4 East, Boise Meridian, Ada County, Idaho.

EXCEPTING THEREFROM the North 30 feet.

ALSO EXCEPTING THEREFROM that property Deeded to the State of Idaho in Deed recorded November 23, 1959 in Book 463 of Deeds at page 110, Instrument No. 467761 for the Orchard Access Road.

PARCEL III

The Northwest quarter (NW ¼) Section 16, Township 1 South, Range 4 East, Boise Meridian, EXCEPT for a tract located in the Northwest quarter Northwest quarter of said Section 16 referred to as Tract 102, Condemnation Case No. 3551 dated December 10, 1962 and more particularly described as follows:
Beginning at a point lying on the North line of said Section 16, which point lies Easterly, a distance of 418.49 feet from the Northwest corner thereof; thence
South 47 degrees 53'01" East, a distance of 296. 58 feet; thence
North 89 degrees 14'32" East, a distance of 310.03 feet; thence
North 30 degrees 32'26" East, a distance of 236.15 feet to a point lying on the North line of said Section 16, thence Westerly along said North line, a distance of 650.0 feet to the POINT OF BEGINNING, records of Ada County, Idaho.

AND

The Northeast quarter (NE ¼) Section 16, Township One (1) South, Range Four (4) East, Boise Meridian, records of Ada County, Idaho.

AND

The Southwest quarter (SW ¼) Section 16, Township One (1) South, Range Four (4) East, Boise Meridian, records of Ada County, Idaho.

AND

The Southeast quarter (SE ¼), Section 16, Township One (1) South, Range Four (4) East, Boise Meridian, records of Ada County, Idaho.

SH

ADA COUNTY RECORDER J. DAVID NAVARRO AMOUN 00 2
BOISE IDAHO 07/22/05 04:28 PM
DEPUTY Neava Haney
RECORDED – REQUEST OF
Pioneer

105100376

A Pioneer Company
PIONEER TITLE COMPANY
OF ADA COUNTY
8151 W. Rifleman Ave. / Boise, Idaho 83704
(208) 377-2700

257077 SRM/CS

WARRANTY DEED

For Value Received Petre Draghici and Wendi Draghici, Husband and Wife

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

Gregory B. Johnson and Heidi M. Johnson, Husband and Wife

hereinafter referred to as Grantee, whose current address is P.O. Box 344, Meridian, ID 83680

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, his heirs and assigns forever. And the said Grantor does hereby covenant to and with the said Grantee, that Grantor is the owner in fee simple of said premises; that said premises are free from all encumbrances except current years taxes, levies, and assessments, and except U.S. Patent reservations, restrictions, easements of record, and easements visible upon the premises, and that Grantor will warrant and defend the same from all claims whatsoever.

Dated: July 15, 2005

Petre Draghici
Petre Draghici

Wendi Draghici
Wendi Draghici

STATE OF IDAHO. County of Ada, ss.

On this 21st day of July, in the year of 2005, before me ~~Susan J. Merritt~~ Sharlot Baker SBB, notary public personally appeared Petre Draghici and Wendi Draghici known or identified to me to be the person/persons whose name is/are subscribed to the within instrument, and acknowledged to me that he/she/they executed the same.

SHARLOT BAKER NOTARY PUBLIC STATE OF IDAHO

Sharlot Baker
~~Susan J. Merritt~~ Sharlot Baker
Notary Public of Idaho
Residing at ~~Caldwell, ID~~ Boise, ID
Commission expires: ~~May 5, 2011~~ 7/2/07

EXHIBIT A

Parcel "A" according to Record of Survey No. 4393 being a parcel of land located in a portion of the South half Southeast quarter of Section 28, Township 1 North, Range 4 East, Boise Meridian, Ada County, Idaho and being more particularly described as follows:

Commencing at a found half inch iron pin marking the East quarter corner of said Section 28, Township 1 North, Range 4 East, Boise Meridian, Ada County, Idaho, said pin bears South 89 degrees 46'03" East 2652.26 feet from a set 5/8" iron pin marking the C1/4 corner of said Section 28; thence
South 0 degree 07'30" West 1316.99 feet along the East boundary of the said Southeast quarter of Section 28 to a set 5/8" iron pin marking the South 1/16 corner common to said Section 28 and 27, said pin bears
North 0 degree 07'30" East 1317.00 feet from a found brass cap marking the Southeast corner of said Section 28; thence
North 89 degrees 47'36" West 352.30 feet to a set half inch iron pin marking the REAL POINT OF BEGINNING; thence
South 0 degree 12'24" West 1167.00 feet to a set half inch iron pin; thence
North 89 degrees 47'36" West 1494.00 feet to a set half inch iron pin; thence
North 0 degree 12'24" East 1167.00 feet to a set half inch iron pin; thence
South 89 degrees 47'36" East 1494.00 feet to the POINT OF BEGINNING.

LandAmerica Transnation

ADA COUNTY RECORDER J. DAVID NAVARRO AMOUNT 6.00 2
BOISE IDAHO 09/01/05 04:31 PM
DEPUTY Patti Thompson
RECORDED – REQUEST OF
Transnation Title
105126893

Escrow No. 0500031686-SBO

WARRANTY DEED

FOR VALUE RECEIVED
JAMES C. PHAGAN AND BONNIE L. PHAGAN, husband and wife

GRANTOR(s), does(do) hereby GRANT, BARGAIN, SELL AND CONVEY unto: Greg Johnson and Marilee Johnson, husband and wife

GRANTEES(s), whose current address is: , ID
the following described real property in Ada County, State of Idaho,
more particularly described as follows, to wit:
Lot 1 in Block 1 of REGINA HEIGHTS SUBDIVISION, according to the official plat thereof, filed in Book 83 of Plats at Pages 9176 and 9177, records of Ada County, Idaho.

TO HAVE AND TO HOLD the said premises, with their appurtenances unto the said heirs and assigns forever. And the said Grantor(s) does(do) hereby covenant to and with the said Grantee(s), that 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 reservations, restrictions, dedications, easements, rights of way and agreements, (if any) of record, and general taxes and assessments, (including irrigation and utility assessments, if any) for the current year, which are not yet due and payable, and that Grantor(s) will warrant and defend the same from all lawful claims whatsoever.

Date: August 30, 2005

Bonnie L. Phagan

Bonnie L. Phagan

James C. Phagan

James C. Phagan

Notary Acknowledgment – see page 2

WARRANTY DEED - NOTARY ACKNOWLEDGMENT(S):

State of Texas, County of Galviston, ss.

On this 30 day of August in the year of 2005, before me, the undersigned, a Notary Public in and for said State, personally appeared Bonnie L. Phagan known or identified to me to be the person(s) whose name(s) is/are subscribed to the within instrument, and acknowledged to me that he/she/they executed the same.

Myritha J Cleveland

Residing at: 3300 Texas Ave, Texas City, TX
My commission expires: April 1, 2006

MYRITHA J. CLEVELAND
MY COMMISSION EXPIRES
April 1, 2006

State of Idaho, County of ADa, ss.

On this 1ST day of ~~August~~ SEPT in the year of 2005, before me, the undersigned, a Notary Public in and for said State, personally appeared James C. Phagan known or identified to me to be the person(s) whose name(s) is/are subscribed to the within instrument, and acknowledged to me that he/she/they executed the same.

Residing at:
My commission expires:

Residing in Meridian, Idaho
My Commission expires: 03-20-2010

STEPHANIE COFFEY
NOTARY
PUBLIC
STATE OF IDAHO

The Grantees herein have read and approved the following: _____

WARRANTY DEED

Title File No.: **LT05-11614**

FOR VALUE RECEIVED

ROBERT L. GARRARD AND ELIZABETH GARRARD, husband and wife

GRANTOR(s), does(do) hereby GRANT, BARGAIN, SELL and CONVEY unto: Greg Johnson and Heidi Johnson, husband and wife

GRANTEES(s), whose current address is: **P.O. Box 344 , Meridian, ID 83680** the following described real property in **Ada** County, State of Idaho, more particularly described as follows, 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 Grantee(s) heirs and assigns forever. And the said Grantor(s) does(do) hereby covenant to and with the said Grantee(s), that 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 reservations, restrictions, dedications, easements, rights of way and agreements,(if any) of record, and general taxes and assessments, (including irrigation and utility assessments, if any) for the current year, which are not yet due and payable, and that Grantor(s) will warrant and defend the same from all lawful claims whatsoever.

Dated: **January 17, 2006**

Robert L Garrard
Robert L. Garrard

Elizabeth Garrard
Elizabeth Garrard

STATE OF **Idaho** , County of **Ada** , ss.

On this **17th** day of **January** in the year of 2006, before me, the undersigned, a Notary Public in and for said State, personally appeared
Robert L. Garrard and Elizabeth Garrard

known or identified to me to be the persons whose names are subscribed to the within instrument, and acknowledged to me that they executed the same.

Signature: Penny R Combs

Name: Penny R. Combs

Residing at: RESIDING IN: MERIDIAN, ID

My commission expires: COMMISSION EXPIRES 05-04-2006

PENNY R. COMBS NOTARY PUBLIC STATE OF IDAHO

Lawyers Title Insurance Corporation

EXHIBIT "A"

The South half of the Southeast quarter of Section 28, Township 1 North, Range 4 East, Boise Meridian, Ada County, Idaho, lying Northeasterly of the old U.S. Highway 20, 26 and 30, and the Northeast quarter of Section 33, Township 1 North, Range 4 East, Boise Meridian, Ada County, Idaho, lying Northeasterly of the old U.S. Highway 20, 26 and 30.

EXCEPTING THEREFROM a parcel of land located in a portion of the South half of the Southeast quarter of Section 28, Township 1 North, Range 4 East, Boise Meridian, Ada County, Idaho and being more particularly described as follows:

Commencing at a found 1/2 inch iron pin marking the East quarter corner of said Section 28, Township 1 North, Range 4 East, Boise Meridian, Ada County, Idaho, said pin bears
South 89°46'03" East 2652.26 feet from a set 5/8 inch iron pin marking the C-1/4 corner of said Section 28; thence
South 0°07'30" West 1316.99 feet along the East boundary of the said Southeast quarter of Section 28 to a set 5/8 inch iron pin marking the South 1/16 corner common to said Section 28 and 27, said pin bears
North 0°07'30" East 1317.00 feet from a found brass cap marking the Southeast corner of said Section 28; thence
North 89°47'36" West 352.30 feet to a set 1/2 inch iron pin marking the REAL POINT OF BEGINNING; thence
South 0°12'24" West 1167.00 feet to a set 1/2 inch iron pin; thence
North 89°47'36" West 1494.00 feet to a set 1/2 inch iron pin; thence
North 0°12'24" East 1167.00 feet to a set 1/2 inch iron pin; thence
South 89°47'36" East 1494.00 feet to the POINT OF BEGINNING.

3

ADA COUNTY RECORDER J. DAVID NAVARRO AMOUNT 9.00 3
BOISE IDAHO 01/17/06 04:37 PM
DEPUTY Patti Thompson
RECORDED – REQUEST OF
Lawyers Title

106008075

This sheet has been added to the document
to accommodate recording information

LIOS-11614 PRC

A Pioneer Company
PIONEER TITLE COMPANY
OF ADA COUNTY
8151 W. Rifleman Ave. / Boise, Idaho 83704
(208) 377-2700

READ AND APPROVED BY

WARRANTY DEED

For Value Received James C Thompson III and Cynthia L. Thompson, Husband and Wife

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

Heidi M. Johnson, a married woman as her sole and separate property

hereinafter referred to as Grantee, whose current address is P.O. Box 344, Meridian, Id 83680

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, his heirs and assigns forever. And the said Grantor does hereby covenant to and with the said Grantee, that Grantor is the owner in fee simple of said premises; that said premises are free from all encumbrances except current years taxes, levies, and assessments, and except U.S. Patent reservations, restrictions, easements of record, and easements visible upon the premises, and that Grantor will warrant and defend the same from all claims whatsoever.

Dated: July 18, 2005

James C Thompson III

Cynthia L. Thompson

STATE OF California County of San Bernardino , ss.

On this 20 day of July, in the year of 2005, before me the undersigned, notary public personally appeared James C. Thompson III and Cynthia L. Thompson known or identified to me to be the person/persons whose name is/are subscribed to the within instrument, and acknowledged to me that he/she/they executed the same.

JANICE L. BULOCK
Commission # 1506836
Notary Public - California
San Bernardino County
My Comm. Expires Aug 10, 2008

Janice L. Bulock

Notary Public of Calif.

Residing Hesperia, Calif. at

Commission expires: 8-10-08

EXHIBIT A

A parcel of land being a portion of the NE ¼ of the NE ¼ of Section 32, a portion of the SW ¼ of Section 28 and a portion of the SE ¼ of Section 29, all in Township 1 North, Range 4 East, Boise Meridian, Ada County, Idaho, said parcel being more particularly described as follows:

Commencing at the brass cap marking the quarter corner common to Sections 29 and 32, Township 1 North, Range 4 East, Boise Meridian, Ada County, Idaho;
Thence North 89°59'42" East a distance of 2649.90 feet to a pipe marking the corner common to Sections 33, 32, 29 and 28;
Thence South 89°38'07" West a distance of 98.39 feet to a brass cap right-of-way monument on the Northeasterly side of I-84, said point being the REAL POINT OF BEGINNING;
Thence along said right-of-way of I-84 the following courses and distances:
South 51°43'54" West a distance of 96.73 feet to a brass cap right-of-way monument;
Thence North 83°25'36" West a distance of 83.93 feet to a brass cap right-of-way monument;
Thence North 49°04'00" West a distance of 916.92 feet to a brass cap right-of-way monument;
Thence North 38°14'20" West a distance of 194.84 feet to an iron pin;
Thence leaving said right-of-way, North 60°06'26" East a distance of 1781.81 feet to the physical centerline of pavement of Old Highway 30;
Thence along said centerline South 72°17'03" East a distance of 804.29 feet to a point of beginning of curve on the Westerly right-of-way of Mayfield Road;
Thence along said right-of-way the following courses and distances:
Along a curve to the left 226.47 feet, said curve having a delta of 30°45'03", a radius of 421.97 feet, tangents of 116.04 feet and a long chord of 223.76 feet which bears South 56°36'41" West to a brass cap right-of-way monument marking a point of ending of curve;
Thence South 49°18'53" West a distance of 66.90 feet to a brass cap right-of-way monument;
Thence South 41°01'11" West a distance of 253.55 feet to a brass cap right-of-way monument;
Thence South 28°47'54" West a distance of 51.42 feet to a brass cap right-of-way monument;
Thence South 41°04'16" West a distance of 604.29 feet to a brass cap right-of-way monument marking a point of beginning of curve;
Thence along a curve to the right 708.77 feet, said curve having a delta of 10°44'39", a radius of 3779.72 feet, tangents of 355.43 feet and a long chord of 707.74 feet which bears South 46°23'57" West to the REAL POINT OF BEGINNING,

EXCEPT any portion thereof lying within the right-of-way for Old Highway 30.

A Pioneer Company

PIONEER TITLE COMPANY

OF ADA COUNTY

8151 W. Rifleman Ave. / Boise, Idaho 83704 / (208) 377-2700

ESCROW INSTRUCTIONS

SELLER: James C Thompson III and Cynthia L. Thompson
BUYER: Pioneer 1031 Company / Heidi M. Johnson, exchangor
LENDER:
PROPERTY: 40+- acres - E. Mayfield Road
Boise, Idaho 83716
ESCROW NO.: 258028 DATE: July 18, 2005

To: PIONEER TITLE COMPANY OF ADA COUNTY

Upon receipt of collected funds sufficient to close this transaction, PIONEER TITLE COMPANY OF ADA COUNTY is authorized to close the above escrow and record the documents delivered to it, as well as to disburse those funds as set forth in the closing statement executed and hereby approved by the Buyer and Seller, on the following conditions.

1. TITLE INSURANCE: Buyer and Seller instructs Pioneer Title Company to close this transaction upon notification that a(n) Standard Owner's Policy in the amount of $165,000.00 insuring Buyer can be issued subject to customary title exceptions, restrictive covenants, easements, and title exceptions 1 thru 13, 15, 16 as set forth in Title Commitment No. 258028, which Buyer and Seller have read and hereby approve.

2. PRORATIONS: All prorations between Buyer and Seller shall be as of the date set forth in the closing statement. All prorations shall be based upon a 365-day year, unless the parties otherwise notify Pioneer Title Company of a different applicable amortization period. Calculated prorations shall be based upon the most recently available property tax, rental and insurance information received from Seller or the Deed of Trust beneficiary or mortgagee. All water, utility, and other prorations not specifically set forth in the closing statement shall be prorated directly between Buyer and Seller outside of this closing. Additional recording fees and additional interest due on any required loan payoffs different from that set forth in the closing statement may be deducted from the appropriate party's funds, notwithstanding the amounts set forth in that closing.

3. FIRE INSURANCE: Pioneer Title Company shall have no obligation to cancel, transfer, or purchase fire or other insurance for the Buyer and Seller. All insurance needs of the parties shall be handled directly by the parties, outside of escrow.

4. DISPUTES WITH PIONEER TITLE: Pioneer Title Company and every other party executing this Agreement agree that all disputes, claims, and controversies involving Pioneer Title Company in any way, whether individual, joint, or class in nature, arising out of this agreement or otherwise, including without limitation contract and tort disputes, in which the amount in controversy is $50, 000.00 or less shall be arbitrated pursuant to the Uniform Arbitration Act, upon written request of Pioneer Title Company. The parties shall mutually agree upon the arbitrator who shall be a licensed attorney or retired judge. Each of the parties to the dispute shall pay a pro-rata share of the arbitrator's fee. If the parties to the dispute cannot agree upon the arbitrator, then the arbitrator shall be selected by the court of general jurisdiction in the judicial district in which the principal office of Pioneer Title Company is situated upon motion or petition of Pioneer Title Company. The award rendered by the arbitrator shall be final and non-appealable, except that judgment may be entered in any court having jurisdiction thereof enforcing the terms of the arbitrator's award. Under no circumstances shall an arbitrator award punitive or exemplary damages to any of the parties to the arbitration.

5. DISPUTES WITH OTHERS: If a dispute arises between the Buyer and Seller or with any third party, Pioneer Title Company shall have the option to await settlement of such controversy between the parties and submission of joint written instructions by them, or to institute an inter pleader action or otherwise await the entry of a court order judgment determining the parties' rights in such dispute. In the event that you should become a party to any such legal proceedings, we jointly and severally agree to pay and to hold you as escrow holder harmless from and against any and all costs, charges, damages, attorney's fees or other expense which you in good faith may incur.

6. DISBURSEMENTS: Buyer and Seller agree to pay and reimburse Pioneer Title Company, upon demand, any sums paid or otherwise disbursed by it in reliance upon any check, draft, or other items if they are returned or otherwise fail to result in the immediate, unconditional deposit or credit of cash funds at closing. If Buyer or Seller fails to present for payment any check or instrument issued by Pioneer Title Company within ninety (90) days from the date such check was issued, then Buyer and Seller authorizes Pioneer Title Company to deduct the sum of three dollars ($3.00) per month from such funds until the check is presented for payment. If Pioneer Title

ADA COUNTY RECORDER J. DAVID NAVARRO AMOUNT 6.00
BOISE IDAHO 07/22/05 04:31 PM
DEPUTY Neava Haney
RECORDED-REQUEST OF
Pioneer
105100441

A Pioneer Company
PIONEER TITLE COMPANY
OF ADA COUNTY
8151 W. Rifleman Ave. / Boise, Idaho 83704
(208) 377-2700

258028 SRM/AL

QUITCLAIM DEED

For Value Received

Jeffrey Agenbroad as Trustee of the Carl S. and Judith A. Agenbroad Revocable Trust under Agreement dated August 6, 1993 and Gable A. Properties, LLC, an Idaho limited liability company

do hereby convey, release, remise and forever quit claim unto

James C. Thompson III and Cynthia L. Thompson, Husband and Wife

whose address is 25362 Village Road, Dana Point CA 92629 ,

the following described premises, to-wit:

SEE EXHIBIT A ATTACHED HERETO AND MADE A PART HEREOF.

together with their appurtenances.

Dated: July 21, 2005

Jeffrey Agenbroad as Trustee of the Carl S. and Judith A. Agenbroad
Revocable Trust under Agreement dated August 6, 1993

Jeffrey Agenbroad, Trustee

Gable A.Properties, LLC

Jeffrey Agenbroad, Manager

STATE OF Idaho, County of Ada, ss.

On this 21st day of July, in the year of 2006, before me the undersigned, a notary public personally appeared Jeffrey Agenbroad, known or identified to me to be the person whose name is subscribed to the within instrument as Trustee of the Carl S. and Judith A. Agenbroad Revocable Trust and acknowledged to me that he/she/they executed the same as such Trustee.

STATE OF Idaho, County of Ada, ss

On this 21st day of July, in the year of 2005, before me the undersigned, a notary public, personally appeared Jeffrey Agenbroad, known or identified to be one of the member(s)/manager(s) in a limited liability company, of Gable A. Properties LLC and the member(s)/manager(s) who subscribed said limited liability company name to the foregoing instrument, and acknowledged to me that he/she/they executed the same in said limited liability company name.

Sally Caldwell

Notary Public of Idaho
Residing at Nampa
Commission expires: 11-13-08

SALLY CALDWELL
Notary Public
State of Idaho

EXHIBIT A

A parcel of land being a portion of the NE ¼ of the NE ¼ of Section 32, a portion of the SW ¼ of Section 28 and a portion of the SE ¼ of Section 29, all in Township 1 North, Range 4 East, Boise Meridian, Ada County, Idaho, said parcel being more particularly described as follows:

Commencing at the brass cap marking the quarter corner common to Sections 29 and 32, Township 1 North, Range 4 East, Boise Meridian, Ada County, Idaho;
Thence North 89°59'42" East a distance of 2649.90 feet to a pipe marking the corner common to Sections 33, 32, 29 and 28;
Thence South 89°38'07" West a distance of 98.39 feet to a brass cap right-of-way monument on the Northeasterly side of I-84, said point being the REAL POINT OF BEGINNING;
Thence along said right-of-way of I-84 the following courses and distances:
South 51°43'54" West a distance of 96.73 feet to a brass cap right-of-way monument;
Thence North 83°25'36" West a distance of 83.93 feet to a brass cap right-of-way monument;
Thence North 49°04'00" West a distance of 916.92 feet to a brass cap right-of-way monument;
Thence North 38°14'20" West a distance of 194.84 feet to an iron pin;
Thence leaving said right-of-way, North 60°06'26" East a distance of 1781.81 feet to the physical centerline of pavement of Old Highway 30;
Thence along said centerline South 72°17'03" East a distance of 804.29 feet to a point of beginning of curve on the Westerly right-of-way of Mayfield Road;
Thence along said right-of-way the following courses and distances:
Along a curve to the left 226.47 feet, said curve having a delta of 30°45'03", a radius of 421.97 feet, tangents of 116.04 feet and a long chord of 223.76 feet which bears South 56°36'41" West to a brass cap right-of-way monument marking a point of ending of curve;
Thence South 49°18'53" West a distance of 66.90 feet to a brass cap right-of-way monument;
Thence South 41°01'11" West a distance of 253.55 feet to a brass cap right-of-way monument;
Thence South 28°47'54" West a distance of 51.42 feet to a brass cap right-of-way monument;
Thence South 41°04'16" West a distance of 604.29 feet to a brass cap right-of-way monument marking a point of beginning of curve;
Thence along a curve to the right 708.77 feet, said curve having a delta of 10°44'39", a radius of 3779.72 feet, tangents of 355.43 feet and a long chord of 707.74 feet which bears South 46°23'57" West to the REAL POINT OF BEGINNING,

EXCEPT any portion thereof lying within the right-of-way for Old Highway 30, as described in Deed to the State of Idaho, recorded in Book 194 of Deeds, at Page 46, records of Ada County, Idaho.

Lester, Steve

From: Lester, Steve
Sent: Wednesday, March 01, 2006 12:14 PM
To: 'Terry Scanlan'
Subject: RE: Application for Permit 63-32225 for Intermountain Sewer and Water Corp.

Terry:

Thank you for following up on this. An extension to submit additional information for Application 63-32225 is approved through April 30, 2006. Please let me know if you have additional questions/concerns. As previously noted, it's best if formal steps like this one are handled by you to remain consistent with the original application submittal. That does not prevent Christian from making direct contacts with IDWR as he works through the details.

Steve

-----Original Message-----
From: Terry Scanlan [mailto:TScanlan@spfwater.com]
Sent: Wednesday, March 01, 2006 8:39 AM
To: Lester, Steve
Cc: Christian Petrich
Subject: RE: Application for Permit 63-32225 for Intermountain Sewer and Water Corp.

Steve -

As discussed with Christian, we would like to get an extension on the larger diversion information for 63-32225. Christian has been working on a report regarding water conditions that will form the basis of our response, and we have fallen a bit behind. If we could get an extension until the end of March it would be appreciated. Thanks.

Terry

-----Original Message-----
From: Christian Petrich
Sent: Tuesday, February 28, 2006 8:52 AM
To: Terry Scanlan
Subject: FW: Application for Permit 63-32225 for Intermountain Sewer and Water Corp.

I emailed Steve Lester requesting an extension on the Intermountain Water and Sewer response. Steve prefers that you request the extension.

CP

From: Lester, Steve [mailto:Steve.Lester@idwr.idaho.gov]
Sent: Tuesday, February 28, 2006 7:44 AM
To: Christian Petrich
Subject: RE: Application for Permit 63-32225 for Intermountain Sewer and Water Corp.

Christian:

An applicant can make a written request seeking more time beyond a deadline defined by IDWR under its rules. This application was submitted with a cover letter signed by Terry as the

ADD'TL info due 4/30/06

consultant. Therefore, Terry must make the written request. We strive to avoid the "too many cooks" syndrome in which more than one person speaks for the applicant -- usually leads to problems.

Please have the consultant of record make a written request in this case. Using email is fine instead of a traditional letter. Thanks for helping us keep the cooking staff to a minimum!

Steve

-----Original Message-----
From: Christian Petrich [mailto:CPetrich@spfwater.com]
Sent: Saturday, February 25, 2006 7:05 PM
To: Lester, Steve
Subject: Application for Permit 63-32225 for Intermountain Sewer and Water Corp.

Steve,

You have sent a letter to Terry requesting additional information regarding the above-referenced permit application. I would like to request an extension for providing the additional information - we intend to have a response complete within the next week or two.

I apologize for the delay.

Regards,
Christian

Christian R. Petrich, Ph.D., P.E., P.G.
SPF Water Engineering, LLC
600 East River Park Lane, Suite 105
Boise, ID 83706
Tel: 208-383-4140 ext. 202
Fax: 208-383-4156
Email: cpetrich@spfwater.com

SPF Project:

Lester, Steve

From: Lester, Steve
Sent: Thursday, February 09, 2006 12:42 PM
To: 'Terry Scanlan'
Subject: RE: Use of Treated Wastewater for Irrigation Purposes

Terry:

It is my understanding that a valid municipal water permit or water right includes any associated uses in the service area (not beyond that) provided the wastewater still remains under the provider's control. In other words, the wastewater has not yet been released to something beyond the provider's system, such as injection into the aquifer or discharge to a river. If approved, 63-32225 should cover the scenario you mentioned under the above assumptions. Another separate approval should not be needed.

Steve

-----Original Message-----
From: Terry Scanlan [mailto:TScanlan@spfwater.com]
Sent: Tuesday, February 07, 2006 11:24 AM
To: Lester, Steve
Subject: Use of Treated Wastewater for Irrigation Purposes

Steve -

Is a water right required for reuse of treated domestic wastewater? Specifically, can Mayfield Springs Planned Community reuse treated municipal wastewater for pressurized irrigation purposes? The water would be diverted from wells under proposed permit 63-32225 by Intermountain Sewer & Water Corporation, used for domestic or other purposes, discharged to a sewer system, treated to Class A quality at a sewage treatment facility, stored in a wastewater pond, and then pumped into a pressurized irrigation system for irrigation of common areas, residential lots, or commercial properties.

Terry

State of Idaho
DEPARTMENT OF WATER RESOURCES
Western Region, 2735 Airport Way, Boise, Idaho 83705-5082 - (208) 334-2190
FAX (208) 334-2348

DIRK KEMPTHORNE
Governor

KARL J. DREHER
Director

January 27, 2006

DANSKIN PROPERTIES ASSN INC
315 E DANSKIN DR
MAYFIELD ID 83716

Re: Application for Permit No. 63-32225 in the Name of Intermountain Sewer & Water, Corp.

Dear Sir or Madam:

We received your letter dated January 25, 2006 in which you expressed concerns about the approval of the above-referenced application for a water right. Please be advised, however, that the protest period ended January 23, 2006 and your letter was not received until January 25, 2006. Our office must receive the protest on or before the protest period is ended. Also, the protest fee of $25.00 was not received. Pursuant to Idaho Code, we cannot recognize your letter as a protest. Your concerns, however, will be taken into consideration.

The department will now continue to process the application, subject to certain conditions of approval, if the application is ultimately approved.

Please feel free to contact this office if you have questions.

Sincerely,

Steve Lester

Steve Lester
Water Rights Supervisor

SL:sk

OFFICE LOCATION: 3131State Street, Boise Idaho
MAILING ADDRESS: PO BOX 7129, BOISE ID 83707-1129
PHONE: (208) 334-8522
FAX: (208)334-8501
E-MAIL: barbara.waite@itd.idaho.gov

Idaho Transportation Department

RECEIVED
JAN 25 2006
WATER RESOURCES
WESTERN REGION

Fax

This Notice of Protest was received after the 1/23/06 deadline.

To: KIMBERLY

From: Barbara Waite
Sr. RIGHT-OF-WAY AGENT
Acquistion/Condemnation Section

Fax: 334-2348 Pages: 2
Phone: 334-2190 Date: 1/25/06
Re: APPLICATION FOR PERMIT No. ~~63-2~~ 63-32225

☐ Per Your Request ☐ For Review ☐ Please Comment ☐ For Your Use ☐ Please Telephone

11/99

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

RECEIVED
JAN 25 2006
WATER RESOURCES
WESTERN REGION

NOTICE OF PROTEST

This form may be used to file a protest with the department under sections 42-108B, 42-203A, 42-203C, 42-211, 42-222 and 42-224, Idaho Code. The department will also accept a timely protest not completed on this form if it contains the same information.

1. Matter being protested Application for Permit No. 63-32225
2. Name of protestant Danskin Properties Association, Inc. (an association of 25 home owners)
3. Protestant's Representative for service (If different than protestant)

   Barbara Waite
4. Service mailing address 315 E. Danskin Drive Mayfield, ID 83716
5. Service telephone no. (208)334-8522 Business, (208)342-4702 Home
6. Basis of protest (including statement of facts and law upon which the protest is based)

   The proposed use is in an area of very limited groundwater resources, approval would reduce the water for existing water rights, the water supply is insufficient for the proposed purpose, it will conflict with the local public interest, as defined in the Idaho Code and it is contrary to the conservation of water resources within the State of Idaho. Although the diversion is in Ada county, the majority of the existing Mayfield community lies within Elmore County.

   (additional pages may be attached to describe nature of the protest)
7. What would resolve your protest? Additional information about the planned uses and the proposed development, information regarding the proposed landscaping, proposed land uses and conservation measures and adequate ground water hydrological information to show that existing water rights in the area will not be adversely affected.

I hereby, acknowledge that if I, or my designated representative, fails to appear at any regularly scheduled conference or hearing in the matter of which I have been notified at the address above, the department may issue a notice of proposed default against me in this matter for failure to appear. I also verify that I have served a copy of this protest upon the applicant.

Signed this 25 day of JAN., 2006.

DANSKIN PROPERTIES ASSOC., INC.
Protestant

Barbara Waite
Protestant's Representative

RECEIVED

JAN 17 2006

WATER RESOURCES
WESTERN REGION

The Idaho Statesman

P.O. Box 40, Boise, Idaho 83707-0040

LEGAL ADVERTISING PROOF OF PUBLICATION

Account #	DTI#	Identification	Amount:
047628	1409266	APPLICATION	$159.00

Attention:	P.O. #	Run Dates
SUE KREGER		JANUARY 5, 12, 2006

IDAHO DEPT. WATER RESOURCES WEST
2735 AIRPORT WY.
BOISE, ID 83705

Number of Lines: 2 X 44

Affidavit: 1

Legal #: 24370

LEGAL NOTICE
PROPOSED CHANGE OF WATER RIGHT

The following application(s) have been filed to appropriate the public waters of the State of Idaho:

63-32225
INTERMOUNTAIN
SEWER & WATER
CORP
660 E FRANKLIN RD
MERIDIAN ID 83642

Point(s) of Diversion NENE S28 T01N R04E ADA County Source GROUND WATER
Point(s) of Diversion SENW S28 T01N R04E ADA County Source GROUND WATER
Point(s) of Diversion NWSE S28 T01N R04E ADA County Source GROUND WATER
Point(s) of Diversion SESE S28 T01N R04E ADA County Source GROUND WATER
Point(s) of Diversion NENW S33 T01N R04E ADA County Source GROUND WATER
Use: MUNICIPAL 01/01 To 12/31 10 CFS
Total Diversion: 10 CFS
Date Filed: 09/16/2005
Place Of Use: MUNICIPAL
T01N R04E S28 NENE NWNE SWNE SENE SENW NESW NWSW SWSW SESW NESE NWSE SWSE SESE
T01N R04E S29 SESE
T01N R04E S32 NENE
T01N R04E S33 NENE NWNE SWNE SENE NENW NWNW SWNW SENW NESW NESE NWSE SESE

Remark: Municipal use is for Mayfield Springs Planned Community of 2000 homes and associated uses east of Indian Creek Reservoir between I84 and the Ada-Elmore County line. Water bearing zone to be appropriated from up to 5 proposed wells is from 300 to 1000 feet. Applicant agrees to mitigate consumptive use in the future as needed.

Permits will be subject to all prior water rights. Protests may be submitted based on the criteria of Sec 42-203A, Idaho Code.

Any protest against the approval of this application must be filed with the Director, Dept. of Water Resource, Western Region, 2735 Airport Way, Boise ID 83705 together with a protest fee of $25.00 for each application on or before 01/23/2006. The protestant must also send a copy of the protest to the applicant.

KARL J DREHER, Director

Pub. Jan. 5,12, 2006

24370

JANICE HILDRETH, being duly sworn, deposes and says: That she is the Principal Clerk of *The Idaho Statesman,* a daily newspaper printed and published at Boise, Ada County, State of Idaho, and having a general circulation therein, and which said newspaper has been continuously and uninterruptedly published in said County during a period of twelve consecutive months prior to the first publication of the notice, a copy of which is attached hereto: that said notice was published in The Idaho Statesman, in conformity with Section 60-108, Idaho Code, as amended, for:

TWO

[X] consecutive weekly [ ] single
[ ] consecutive daily [ ] odd skip
insertion(s)

beginning issue of: JANUARY 5, 2006
ending issue of: JANUARY 12, 2006

Janice Hildreth

STATE OF IDAHO)
.ss
COUNTY OF ADA)

On this 12 day of JANUARY in the year of 2006 before me, a Notary Public, personally appeared before me Janice Hildreth known or identified to me to be the person whose name subscribed to the within instrument, and being by me first duly sworn, declared that the statements therein are true, and acknowledged to me that she executed the same.

Sondra L Brightman

Notary Public for Idaho
Residing at: Boise, Idaho
My Commission expires: 6/20/06

Kreger (Taylor), Sue

To: Charles.Ariss@deq.idaho.gov

IDAHO DEPARTMENT OF WATER RESOURCES
WESTERN REGION
2735 AIRPORT WAY
BOISE ID 83705

January 4, 2006

ID DEPT ENV QUALITY
CHARLES ARISS
1445 N ORCHARD
BOISE ID 83706-2239

Re: Applications for Permit

Dear Mr. Ariss:

Attached is a copy(s) of one or more applications that may be of interest to you and/or to a local District Health office should you choose to delegate review of the application(s) to that organization. Please contact the applicant if your agency and/or District Health have concerns about the application(s). It is not necessary to provide agency comments to the Idaho Department of Water Resources (IDWR), although your comments are welcome if you think IDWR would benefit from them.

If your agency and/or a local District Health office desires to file a formal protest against approval of any of these applications, a written protest along with the $25.00 protest fee for each application protested must be received in this office by January 23, 2006. A copy of the protest must also be sent to the applicant.

If you have any questions regarding these applications, please contact this office at 334-2190.

Sincerely,


63-7194.pdf


63-32225.pdf

IDAHO DEPARTMENT OF WATER RESOURCES
WESTERN REGION
2735 AIRPORT WAY
BOISE ID 83705

December 29, 2005

Legal Notice Department
IDAHO STATESMAN
PO BOX 40
BOISE ID 83707

RE: Application for Permit No. 63-32225
Application for Transfer of Permit No. 63-7194 in the Name of Peregrine and
Application for Transfer of Permit No. 63-7194 in the Name of Choutchourrou

Dear LEGAL NOTICE DEPARTMENT:

Enclosed you will find a legal notice which we wish to have published in your newspaper 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 01/23/2006. Your cooperation is appreciated.

Sincerely

Sue Kreger
Administrative Assistant

The following application(s) have been filed to appropriate the public waters of the State of Idaho:

63-32225

INTERMOUNTAIN SEWER & WATER CORP
660 E FRANKLIN RD
MERIDIAN ID 83642

Point(s) of Diversion	NENE	S28	T01N R04E	ADA County	Source GROUND WATER
Point(s) of Diversion	SENW	S28	T01N R04E	ADA County	Source GROUND WATER
Point(s) of Diversion	NWSE	S28	T01N R04E	ADA County	Source GROUND WATER
Point(s) of Diversion	SESE	S28	T01N R04E	ADA County	Source GROUND WATER
Point(s) of Diversion	NENW	S33	T01N R04E	ADA County	Source GROUND WATER

Use: MUNICIPAL 01/01 To 12/31 10 CFS

Total Diversion: 10 CFS

Date Filed: 09/16/2005

Place Of Use: MUNICIPAL

T01N R04E S28	NENE NWNE SWNE SENE SENW NESW NWSW SWSW SESW NESE NWSE SWSE SESE
T01N R04E S29	SESE
T01N R04E S32	NENE
T01N R04E S33	NENE NWNE SWNE SENE NENW NWNW SWNW SENW NESW NESE NWSE SESE

Remark: Municipal use is for Mayfield Springs Planned Community of 2000 homes and associated uses east of Indian Creek Reservoir between I84 and the Ada-Elmore County line. Water bearing zone to be appropriated from up to 5 proposed wells is from 300 to 1000 feet. Applicant agrees to mitigate consumptive use in the future as needed.

Permits will be subject to all prior water rights. Protests may be submitted based on the criteria of Sec 42-203A, Idaho Code.

Any protest against the approval of this application must be filed with the Director, Dept. of Water Resource, Western Region, 2735 Airport Way, Boise ID 83705 together with a protest fee of $25.00 for each application on or before 01/23/2006. The protestant must also send a copy of the protest to the applicant.

KARL J DREHER, Director

Published in the Idaho Statesman on January 5 and 12, 2006.

State of Idaho
DEPARTMENT OF WATER RESOURCES
Western Region, 2735 Airport Way, Boise, Idaho 83705-5082 - (208) 334-2190
FAX (208) 334-2348

DIRK KEMPTHORNE
Governor

KARL J. DREHER
Director

December 16, 2005

TERRY SCANLAN P E
SPF WATER ENGINEERING LLC
600 E RIVER PARK LN STE 105
BOISE ID 83706

Re: Application for Permit No. 63-32225 for Intermountain Sewer & Water Corp.

Dear Terry:

The above referenced application for permit regarding ground water for municipal use can be processed once the minor place of use clarification is made as noted in the telephone message I left you today. To assist this office 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 the enclosed copy of Water Appropriation Rule 40, Rule Subsections 040.05c through 040.05g:

1. effect on existing water rights
2. sufficiency of water supply
3. good faith, delay or speculative purposes
4. financial resources
5. local public interest.

All of the highlighted items in the attached information apply to this application. For local public interest, please provide information as follows:

- Describe the work the applicant has completed or will complete to satisfy Ada County approval requirements.

- Describe the work the applicant has completed or will complete to establish itself as a municipal provider pursuant to I. C. § 42-202B(5).

Other additional information is needed as follows:

- Idaho Department of Water Resources (IDWR) standards for internal domestic use for 2000 homes suggest that about 2.08 cfs would be expected. Please justify why 2.50 cfs is proposed for this component.

- The proposed wells are close to the Mountain Home Ground Water Management Area boundary, particularly the Section 33 location. Describe what impacts, if any, could be expected on this boundary by pumping up to 10.0 cfs over time. Would aquifer dynamics cause the boundary to migrate and/or change in other ways?

Please submit the requested information to allow final evaluation of your application to be completed. You may seek additional time to provide the information by making a written request to delay or interrupt processing. Your written response including the requested information, or a request for more time to seek the information, must be received within sixty (60) days of the date of this letter. The application will be voided without a timely reply.

Please let me know if you have any questions or need more information. Thank you for your attention to these matters.

Sincerely,

Steve Lester
Water Rights Supervisor

Enclosure

LARGE DIVERSION INFORMATION
RULE 40 ... 040.05. c through g e most cases
c " h e trust water

criterion (e) of Section 42-203A(5), Idaho Code, as to any factor affecting local public interest of which he is knowledgeable or reasonably can be expected to be knowledgeable. The protestant shall bear the initial burden of coming forward with evidence for those factors relevant to criterion (e) of Section 42-203A(5), Idaho Code, of which the protestant can reasonably be expected to be more cognizant than the applicant. (7-1-93)

iii. The protestant shall bear the initial burden of coming forward with evidence for the evaluation of the public interest criteria of Section 42-203C(2), Idaho Code, and of demonstrating a significant reduction, except that the applicant shall provide details of the proposed design, construction, and operation of the project and directly associated operations to allow the impact of the project to be evaluated. (7-1-93)

c. The applicant has the ultimate burden of persuasion for the criteria of Section 42-203A, Idaho Code, and the protestant has the ultimate burden of persuasion for the criteria of Section 42-203C, Idaho Code. (7-1-93)

d. For unprotested applications or permits to be reprocessed, the director will evaluate the application, information submitted pursuant to Rule Subsection 040.05.c. and information in the files and records of the department, and the results of any studies the department may conduct to determine compliance with the appropriate criteria. (7-1-93)

e. In protested matters the director will take official notice of information as described in the department's adopted Rules of Procedure, and will, prior to considering, circulate to the parties information from department studies and field examinations concerning the protested application or permit being reprocessed, if such information has not otherwise been made a part of the hearing record. (7-1-93)

05. Additional Information Requirements. (7-1-93)

a. For unprotested applications and permits being reprocessed, the additional information required by Rule Subsection 040.05.c. shall be submitted within thirty (30) days after the director notifies the applicant that the application or permit is being reviewed for decision. The director may extend the time within which to submit the information upon request by the applicant and upon a showing of good cause. Failure to submit the required information within the time period allowed will be cause for the director to void an application or to advance the priority of a permit being reprocessed by the number of days that the information submittal is late. The director will provide opportunity for hearing as provided in Section 42-1701A, Idaho Code. (7-1-93)

b. For protested applications or protested permits being reprocessed, the information required by Rule Subsection 040.05.c. may be requested by the director to be submitted within thirty (30) days after notification by the director, may be made a part of the record of the hearing held to consider the protest, or may be made available in accordance with any pre-hearing discovery procedures. Failure to submit the required information within the time period allowed will be cause for the director to void an application or to advance the priority of a permit being reprocessed by the number of days that the information submittal is late. (7-1-93)

c. The following information shall be submitted for applications to appropriate unappropriated water or trust water and for permits being reprocessed for trust water. The additional information submittal requirements of this rule are waived for filings which seek to appropriate five (5) cfs or less or storage of five hundred acre-feet (500 AF) or less and for filings seeking reallocation of trust water which the director determines will reduce the flow of the Snake River measured at Murphy Gauge by not more than two (2) acre-feet per day. For filings proposing irrigation as a purpose of use, the additional information is required if more than two hundred (200) acres will be irrigated. However, the director may specifically request submittal of any of the following information for any filing, as he determines necessary. Information relative to the effect on existing water rights, Section 42-203A(5)(a), Idaho Code, shall be submitted as follows: (7-1-93)

* N/A — 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. (7-1-93)

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.

* if > 5 cfs > 200 ACRES irrigation
> 500 AF storage > 2 AF/day Reduction AT Murphy gauge

(7-1-93)

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. (7-1-93)

d. Information relative to sufficiency of water supply, Section 42-203A(5)(b), Idaho Code, shall be submitted as follows: (7-1-93)

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. (7-1-93)

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. (7-1-93)

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: (7-1-93)

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. (7-1-93)

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. (7-1-93)

f. Information Relative to Financial Resources, Section 42-203A(5)(d), Idaho Code, shall be submitted as follows: (7-1-93)

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. (7-1-93)

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. (7-1-93)

SEE COVER LETTER, don't send letters N/A

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. (7-1-93)

h. The following information Relative to the Public Interest Criteria of Section 42-203C(2), Idaho Code, shall be submitted by an applicant seeking reallocation of trust water for a project which the director determines will reduce the flow of the Snake River by more than two (2) acre-feet per day. For filings proposing irrigation as a purpose of use, the additional information is required if more than two hundred (200) acres will be irrigated. The director may request any or all of the following information for any filing seeking the reallocation of trust water. (7-1-93)

SPF Water Engineering, LLC
water resource consultants

September 14, 2005

Steve Lester
Western Region Office
Idaho Department of Water Resources
2735 Airport Way
Boise, ID 83705

Subject: Application for Permit – Intermountain Sewer & Water, Corp.

Dear Steve:

Enclosed on behalf of Intermountain Sewer & Water, Corp., is an application for permit proposing appropriation of 10 cfs for municipal purposes at Mayfield Springs Planned Community in eastern Ada County. The project would include approximately 2000 homes plus commercial and industrial facilities.

A check for the $610 filing fee is enclosed. Please contact me with any questions.

Sincerely,

Terry M. Scanlan

Terry M. Scanlan, P.E.

Cc: Greg Johnson – Intermountain Sewer & Water, Corp.

600 East River Park Lane, Suite 105 · Boise, ID 83706 · 208.383.4140 · fax 208.383.4156 · www.spfwater.com