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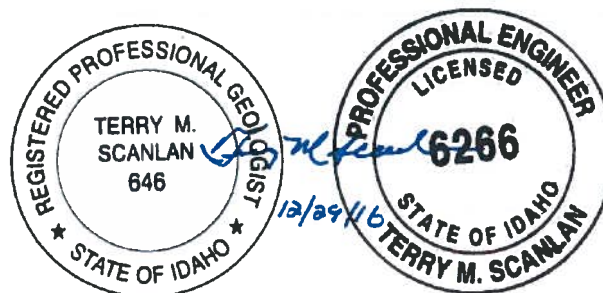
Expert Report in Support of Water Right Applications 63-34079 and 63-34080

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EXHIBIT

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Executive Summary

Applications for Permit 63-34079 and 63-34080 seek authorization to divert groundwater for supplemental irrigation purposes. Application 63-34079 seeks up to 1.9 cubic feet per second (cfs) for irrigation of 95 acres; Application 63-34080 seeks up to 1.46 cfs for irrigation of 73 acres. The proposed places of use under these applications currently receive surface water supply from Boise-Kuna Irrigation District. Boise-Kuna Irrigation District Water is delivered to the places of use by the Boise Project Board of Control.

The Boise Project Board of Control protested these applications, based on concerns that the proposed pumping would withdraw water from Lake Lowell. The proposed points of diversion (PODs) are located between approximately 5 and 6 miles southeast of Lake Lowell.

The purpose of this analysis was to review aquifer conditions in the vicinity of the proposed PODs and evaluate potential impacts of the proposed withdrawals on local groundwater levels and on Lake Lowell. The general conclusion from the analysis is that there is a sufficient groundwater supply for the proposed applications. Specific conclusions from this analysis include the following:

1. Based on review of static water levels and strata penetrated by surrounding wells, the proposed wells can be constructed in productive water-bearing zones that are sufficient to meet the flow requirements proposed on the applications.
2. Groundwater levels in the general vicinity of the proposed applications are stable (or rising), indicating the presence of groundwater available for appropriation.
3. The proposed well locations under applications 63-34079 and 63-34080 appear to be at least approximately ¼ mile away from any neighboring wells. Seasonal impacts from the proposed pumping under these applications are projected to be less than approximately 2.5 feet at a distance of ¼ mile from either of the proposed PODs.
4. The distance between the closest proposed POD and Lake Lowell is at least 5 miles. Based on TVHP model simulations, the long-term depletionary impact on Lake Lowell (i.e., under steady-state hydraulic conditions) will be approximately 2.6% of the net volume withdrawn under the proposed applications.
5. The net irrigation requirement (precipitation deficit) for the proposed place of use is estimated at 2.0 AF per acre. Assuming a 50% irrigation efficiency, the irrigation requirement is 4.0 AF per acre. Supplemental irrigation requirement is estimated to be 1.4 AF per acre (235 acre feet for 168 acres), assuming 2.6 AF per acre average surface water delivery. At 2.6% of pumping volume, the depletion from supplemental irrigation of 168 acres would be 6 acre feet annually. Actual depletion will be less than 6 acre feet, however, because with an assumed 50% irrigation efficiency, a significant portion of the pumping volume returns to the aquifer through seepage and infiltration. Furthermore, the 1.4 AF per acre supplemental irrigation requirement

may be conservative, because long-term average surface water deliveries likely exceed 2.6 AF per acre.

6. Depletions to Lake Lowell can be fully mitigated by delivering 2.6% of annual pumping volume to Lake Lowell. The water can be provided by non-diversion of a portion of the annual surface water delivery allocated to the proposed places of use.
7. The simulated steady-state impact of up to 6 AF from pumping an estimated 235 AF annually under 63-34079 and 63-34079 does not necessarily represent injury to existing water rights. In general, a 6-AF impact would appear to be negligible (and unmeasurable) in a reservoir that stores approximately 173,000 AF. Determination of actual injury would require a full analysis Lake Lowell reservoir fill history, carryover history, analysis of floodwater releases from upper Boise River reservoirs (under the presumption that floodwater releases could be used to bolster Lake Lowell volumes if space is available), and an analysis of actual beneficial use by water users served by the Boise Project.

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Appendix A: Applications 63-34079 and 63-34080

Appendix B: Drillers' Reports for Wells Listed in Water Right Review

1. INTRODUCTION

Applications for Permit 63-34079 and 63-34080 seek authorization to divert groundwater for irrigation purposes from points of diversion (PODs) located between about 5 and 6 miles from Lake Lowell. The Boise Project Board of Control (Boise Project) protested these applications, suggesting that “the location and proposed depth of the applicant’s well will most likely directly withdraw water from Lake Lowell.”¹

The purpose of this analysis was to assess the available groundwater supply in the vicinity of the proposed PODs and evaluate potential impacts on Lake Lowell resulting from the proposed pumping. This report provides a description of Applications 63-34079 and 63-34080 (next section), summarizes local hydrogeologic conditions (Section 3), provides an assessment of potential impacts to local groundwater levels from the proposed withdrawals (Section 4), and provides an analysis of potential impacts to Lake Lowell as a result of the proposed pumping (Section 5).

2. DESCRIPTION OF APPLICATIONS

Application 63-34079

Application 63-34079, submitted on May 8, 2015 under the name Chris Emmert, requests authorization to withdraw up to 1.9 cfs (853 gpm) of groundwater for irrigation of 95 acres between March 1 and November 1 in Section 35 of Township 2N, Range 2W in southern Canyon County, Idaho (Figure 1 and Appendix A). The proposed well (in the southwest quarter of the northeast quarter of Section 35) will extend to approximately 225 feet below ground surface (bgs).

Application 63-34080

Application 63-34080, submitted on May 8, 2015 under the name Chris Emmert (and amended on September 25, 2015) requests authorization to withdraw up to 1.46 cfs (655 gpm) of groundwater for the irrigation of 73 acres between March 1 and November 1 in Section 1 of Township 1N, Range 2W in southern Canyon County, Idaho (Figure 1 and Appendix A). The proposed well, located in in the southwest quarter of the northwest quarter of Section 1, will extend to approximately 225 feet bgs.

¹ Protest filed on October 22, 2015 by S. Davis on behalf of the Boise Project Board of Control.

Supplemental Supply

Lands proposed under both applications (63-34079 and 63-34080) currently receive surface water from Boise-Kuna Irrigation District as the primary irrigation water source. The applicant seeks to use groundwater prior to and after the surface-water delivery season, or to supplement surface water during times of peak crop demands. The applicant raises seed crops including onion seed, sweet corn seed, carrot seed, and beans for seed.

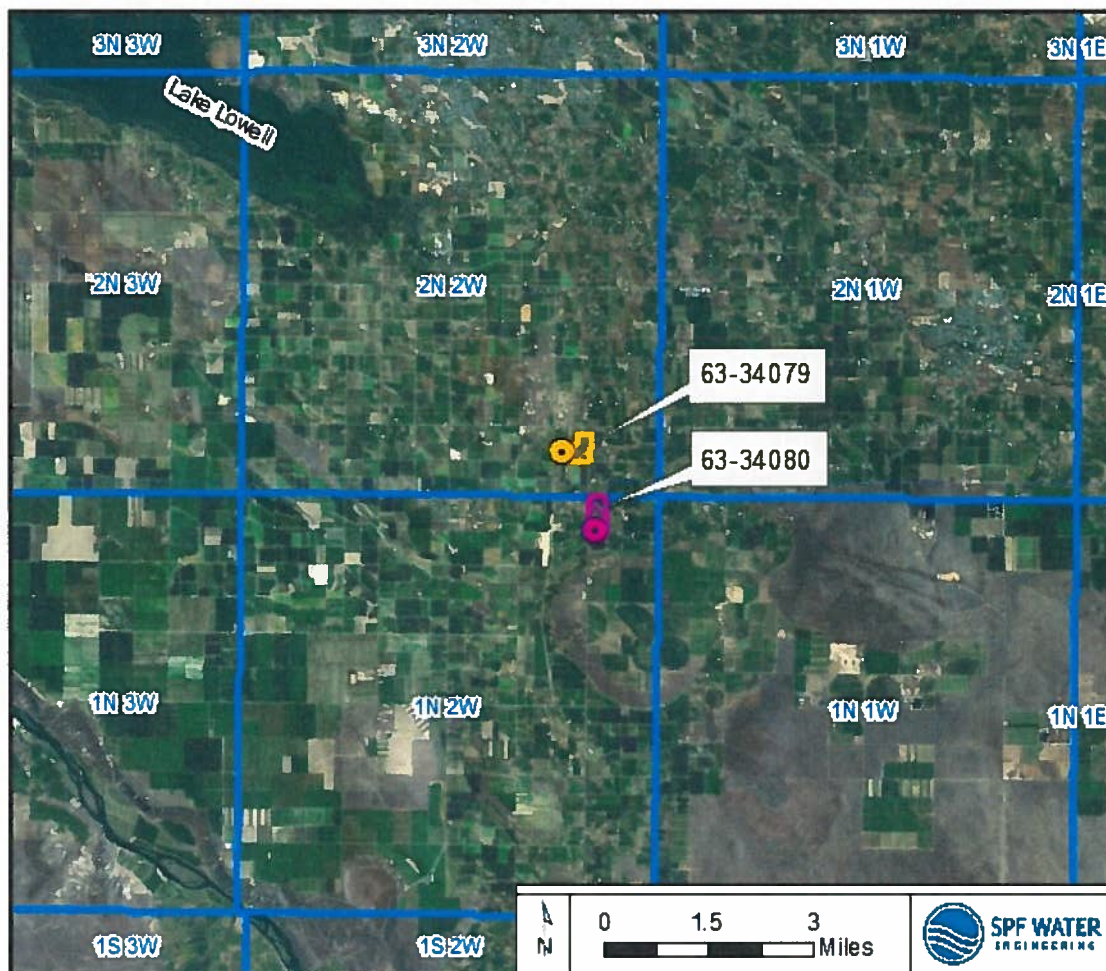


Figure 1. Emmert property location.

Estimates of Groundwater Diversions

Annual diversion volumes for the two applications were projected based on historical surface water deliveries, proposed crop types and rotations, and anticipated pumping patterns.

Groundwater diversions would supplement surface water delivered by the Boise-Kuna Irrigation District. The standard allotment in the Boise-Kuna Irrigation District is 3.75 AF per acre per year. However, an annual delivery of 2.6 to 2.9 AF has been more typical in recent years.²

The annual volume of groundwater to be withdrawn under Applications 63-34079 and 63-34080 was projected by estimating the difference between two annual Boise-Kuna Irrigation District allotments (2.6 AF and 3.75 AF) and the irrigation requirements for the crops proposed in these applications. Annual irrigation requirements were estimated as the precipitation deficit for the proposed crop types (onions, sweet corn, carrots, and beans for seed) and an assumed irrigation efficiency of 50% (gravity irrigation).

The precipitation deficit³ for the listed crop types (Table 1) averaged approximately 2 AF/year, ranging from 1.46 AF/yr per acre (sweet corn) to 2.67 AF/yr per acre (carrots for seed).⁴ This average precipitation deficit, combined with an irrigation efficiency of approximately 50%, results in a typical irrigation requirement of approximately 4 AF/year per acre. Thus, on average, the Applicant would seek to divert approximately 1.4 AF and 0.25 AF per acre in years in which Boise-Kuna Irrigation District delivers 2.6 and 3.75 AF per acre, respectively, resulting in aggregate withdrawals ranging from 18 to 133 AF/year (Table 2). The groundwater diversion volume would be greater if the allocation is less than 2.6 AF per acre, less if the allocation is greater than 2.6 AF per acre, or may vary from these values if the irrigation efficiency or crop mix is different than anticipated.

² Tim Page, *personal communication with Christian Petrich*, 5/12/2016.

³ Precipitation deficit is defined as the difference between the potential ET and the amount of infiltration (from precipitation) that resides in the root zone within the growing season. The available ET data is calculated using the ASCE standardized Penman-Monteith method (University of Idaho, 2010).

⁴ ET Idaho (<http://www.kimberly.uidaho.edu/ETIdaho/online.php>), based on Nampa Agrimet station (NMPI) data, obtained in May 2016.

Estimate of Irrigation Requirements for Applications 63-34079 and 63-34080								
Parameter	Mar	Apr	May	Jun	Jul	Aug	Sep	Growing Season
Precipitation deficit, snap and dry beans for seed (ft/mo)	0.00	0.00	0.00	0.33	0.75	0.25		1.32
Precipitation deficit, carrots for seed (ft/mo)	0.00	0.17	0.45	0.62	0.75	0.60	0.08	2.67
Precipitation deficit, onions for seed (ft/mo)	0.01	0.15	0.39	0.58	0.71	0.53	0.08	2.45
Precipitation deficit, sweet corn for seed, late plant (ft/mo)	0.00	0.00	0.01	0.26	0.75	0.43	0.01	1.46
Precipitation deficit, average of seed crops (ft/mo)	0.00	0.08	0.21	0.45	0.74	0.45	0.06	1.99
Delivery to meet precipitation deficit, assuming 50% irrigation efficiency (ft/mo)	0.01	0.15	0.42	0.90	1.48	0.91	0.11	3.98
Note: Negative precipitation deficit values were removed from the table and excluded from the growing season total.								

Table 1. Estimate of supplemental use.

Projected Groundwater Pumping Volume							
Boise-Kuna Irrig. Distr. Allocation (AF/acre) →		2.6	3.75	2.6	3.75	2.6	3.75
Application	Proposed Acres for Irrigation↓	Supplemental Crop Water Demand (Af/acre) ⁽¹⁾		Groundwater Pumping Requirement (AF/yr) ⁽²⁾		Groundwater Pumping Requirement (gpm) ⁽³⁾	
63-34079	95	1.40	0.25	133	24	188	34
63-34080	73			102	18	145	26
Notes: (1) Calculated as the difference between an irrigation requirement of 4.0 feet (see text) and the Boise-Kuna Irrigation District allocation. (2) Calculated as the supplemental crop demand multiplied by the anticipated POU. (3) Assume uniform pumping over 160 days.							

Table 2. Estimates of supplemental crop water demand and groundwater pumping requirement.

Proximity to Lake Lowell

At its closest point, Lake Lowell is approximately 5.0 miles and 6.3 miles northwest of the PODs proposed in Applications 63-34079 and 63-34080, respectively (Figure 1). The full-pool elevation of Lake Lowell is 2,530 feet above mean sea level (amsl).⁵ The ground-surface elevation at the site of the Application 63-34079 production well is approximately 2,642 feet amsl and approximately 2,665 feet amsl for the POD in Application 63-34080. The anticipated target depth for both production wells of 225 feet bgs would place the bottom of the production well between approximately 113 feet and 90 feet, respectively, below the full-pool elevation of Lake Lowell.

Constructed between 1906 and 1911, the original total storage capacity of Lake Lowell was considered to be 190,000 AF, with active storage of 169,000 AF.⁶ However, a sedimentation survey conducted in 1994 indicated a total storage-capacity estimate of 173,000 AF, with 159,400 AF active storage (representing a reduction in active storage of approximately 9,600 AF). There likely has been additional loss of storage capacity as a result of sedimentation since 1994.

3. AQUIFER CHARACTERISTICS

Geologic Setting

The general stratigraphy of the northwest-trending western Snake River Plain consists of interbedded layers of sand, silt, and clay overlying Miocene-age⁷ volcanic rocks (Wood and Clemens, 2004). Surficial geology in the general vicinity of the proposed places of use (POUs) and Lake Lowell includes (1) Quaternary-age⁸ Snake River Group sediments and basalt and (2) Miocene-age Idaho Group sand, silt, volcanic ash, and clay sediments (Bond and Wood, 1978; Mitchell and Bennett, 1979). Upper water-bearing zones within the Idaho Group sediments are separated from lower water-bearing zones by clay layers described as having a "bluish" color in drillers' reports (Wood and Anderson, 1981). Surficial geology in the vicinity of the Emmert

⁵ <http://www.usbr.gov/pn/hydromet/ramps/lowell/lowell.html>.

⁶ *Ibid.*

⁷ Extending from approximately 23 million years ago to 5 million years ago.

⁸ Occurring in the last 2 million years.

properties consist primarily of coarse-grained sediments and Pleistocene basalt outcrops (Figure 2).

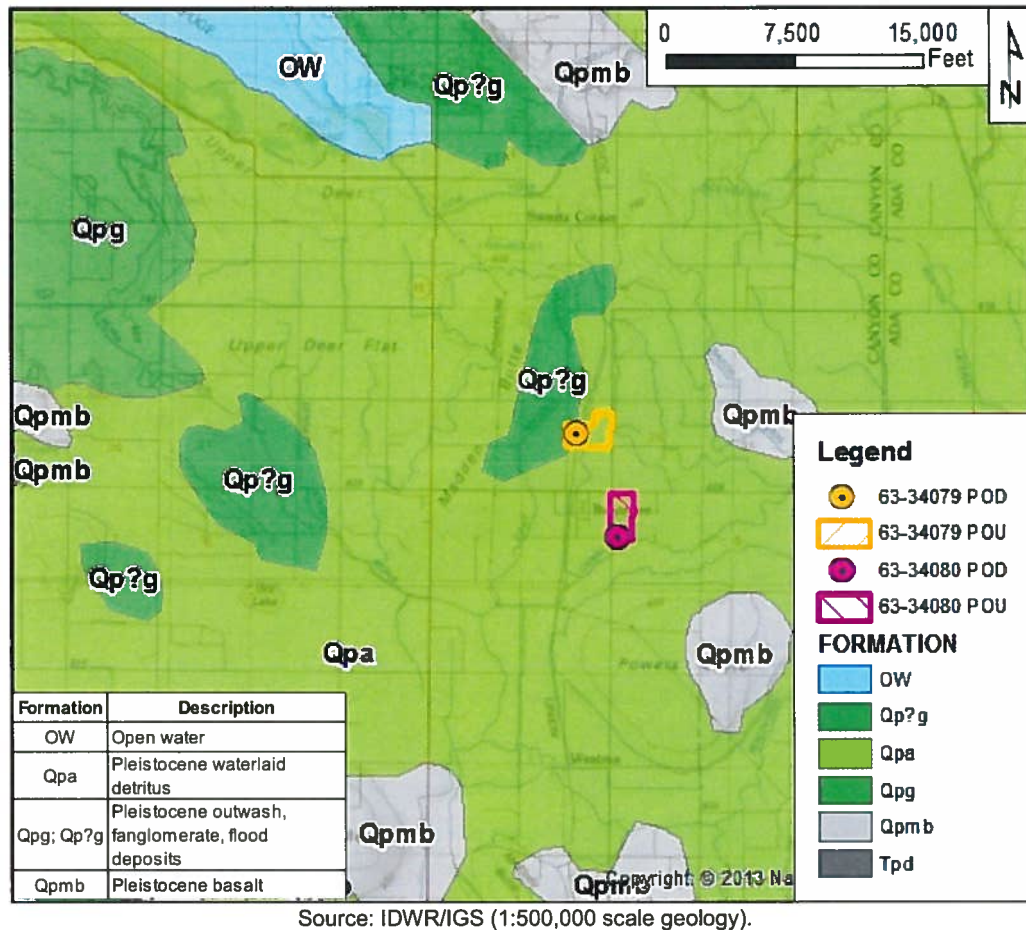


Figure 2. Surficial geology.

Aquifers

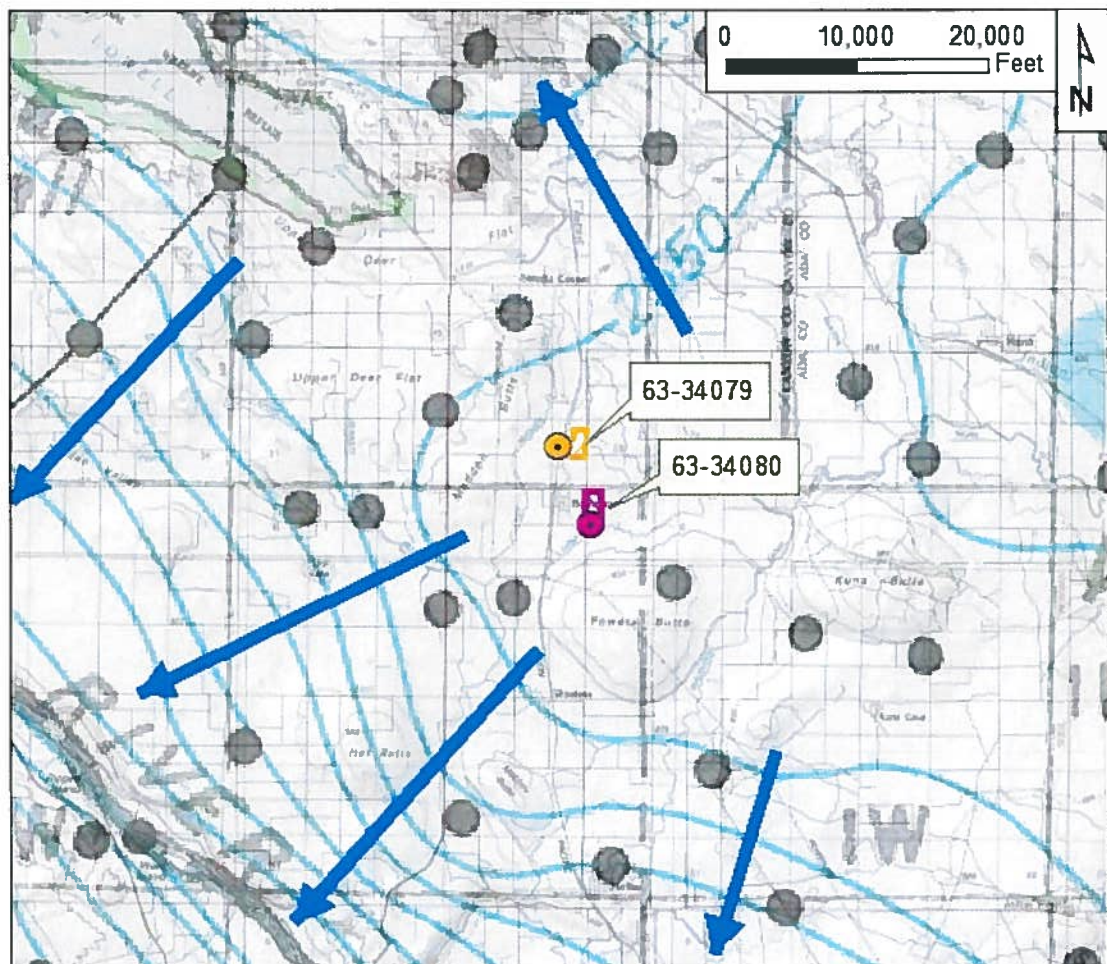
Aquifers are present in both Snake River Group and Idaho Group sediments underlying the Treasure Valley. In general, shallow, local flow systems have groundwater residence times ranging from days to tens of years; deep, regional flow systems have groundwater residence times ranging from hundreds to tens of thousands of years (Petrich and Urban, 2004).

In the vicinity of the Emmert property, wells are completed within unconsolidated Idaho Group deposits of lacustrine and fluvial origin. Productive zones are associated

with coarse sand and gravel, typically layered between fine-grained silt and clay deposits.

Groundwater Flow Direction

The Emmert property overlies a general groundwater-flow divide underlying the New York canal. Groundwater north of the property flows in a general northwesterly direction; groundwater south of the property flows in a general southwesterly direction (Figure 3).



Adapted from Lindholm et al. (1988).

Figure 3. Groundwater flow direction.

Well Drillers' Reports

Drillers' reports provide information regarding aquifer lithology and production rates. SPF conducted a search of the IDWR well-construction records in May 2016 to identify existing wells within approximately 0.5 miles of the PODs for Applications 63-34079 and 63-34080 (Figure 4 and Appendix B).⁹

Recorded Well Driller's Reports near 63-34079

Well drillers' reports for 65 domestic wells (of which 6 were recorded as well deepenings), 4 irrigation wells, and 1 injection well were found within approximately 0.5-miles of the POD for Application 63-34079. Of the 70 wells, depths range between 35 and 313 feet, with an average depth of 163 feet. Chris Emmert owns two of the existing wells within the 0.5-mile search radius, shown as Nos. 52 and 53 in Figure 4.

Generally, wells located within 0.5-miles of 63-34079 are completed within interbedded layers of basalt and unconsolidated deposits (primarily sand and gravel). Production rates during testing performed at the time wells were installed range from 10 gpm to 600 gpm.¹⁰

Review of aerial photography indicates that there are residences located approximately 750 feet west and north of the proposed point of diversion. The domestic wells supplying these residences are likely the closest wells to the proposed point of diversion for 63-34079.

Recorded Well Driller's Reports near 63-34080

Well driller's reports for 55 domestic wells, 1 irrigation well, 1 stockwater well, and 1 injection well were found within approximately 0.5-miles of the POD for Application 63-34080. Of the 58 wells, depths range between 60 and 750 feet, with an average depth of 189 feet.

Generally, wells located within 0.5-miles of 63-34080 are completed within sand and gravel deposits or basalt, depending on the encountered conditions.

⁹ Drillers' reports for wells in the IDWR database are catalogued based on locations provided by the driller. Some wells may have been omitted from this search because of incorrectly listed well locations, and some wells listed in this search area may be incorrectly located. Furthermore, existing wells for which drillers' reports were not submitted to IDWR are generally not identified in the IDWR well construction database. Also, many well locations are shown as being in the centroid of the quarter-quarter in which the well is located.

¹⁰ Production rates reflect well construction, pump capacity, and aquifer capacity.

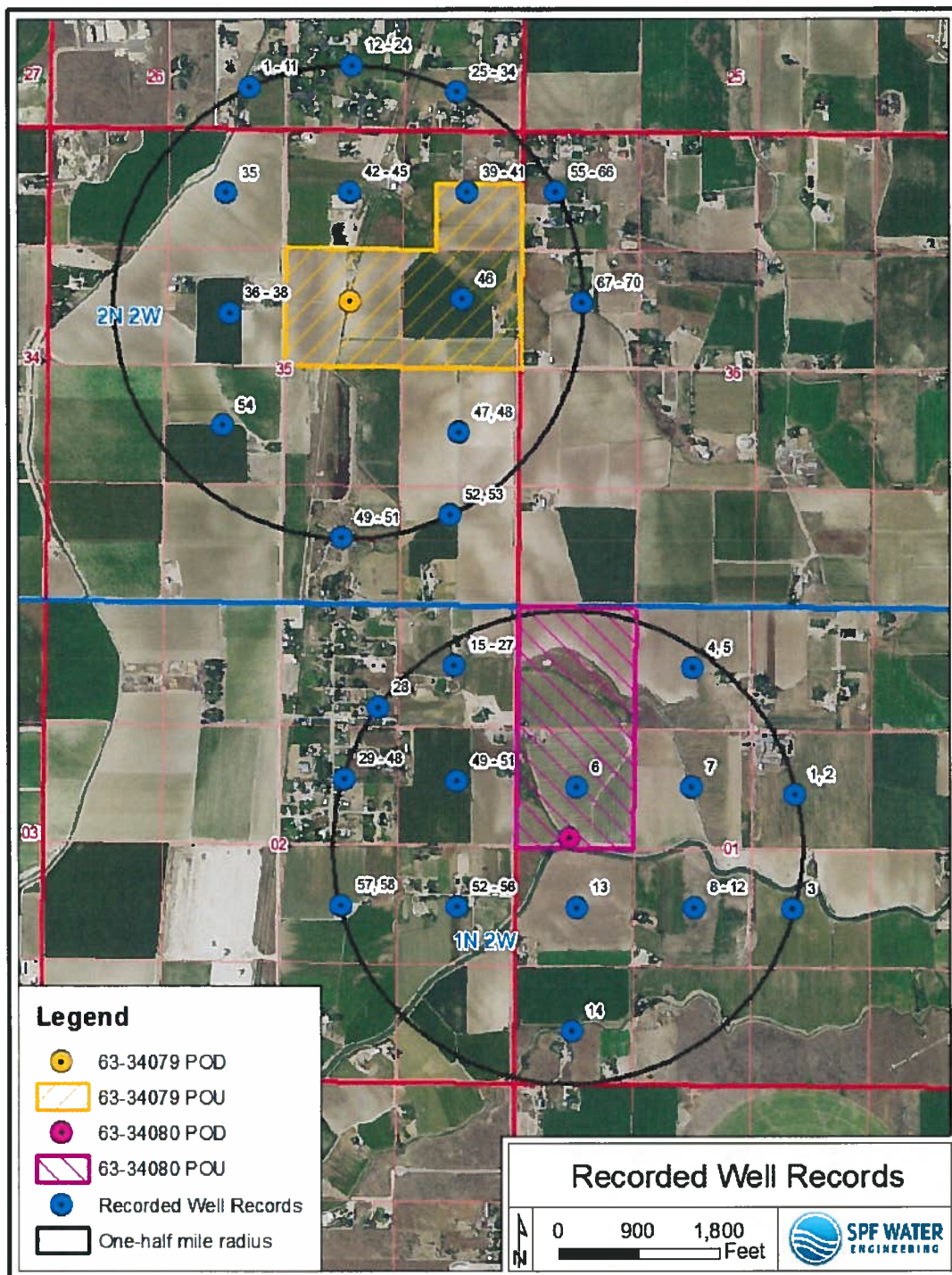


Figure 4. Water well records within 0.5 miles of applications.

Review of aerial photography indicates that there is a residence located approximately 850 feet southwest of the proposed point of diversion. The domestic well supplying this residence is likely the closest well to the proposed point of diversion for 63-34080.

Water Level Data

Groundwater level data for monitoring wells located in the four Townships closest to the proposed PODs (02N01W, 02N02W, 01N01W, and 01N02W) were obtained during May 2016 from IDWR's "Hydro.Online" database. Hydrographs (Figure 5) are provided for wells with at least 3 groundwater level measurements collected within a recent 5-year period.

Hydrographs¹¹ for wells surrounding the PODs for the Applications show generally stable or, in some cases, rising groundwater levels over the last two decades (Figure 6 through Figure 9). Rising groundwater levels likely reflect seepage from surface channels (e.g., irrigation canals or laterals) and infiltration from irrigation activities. Rising groundwater levels indicate the availability of groundwater for appropriation.

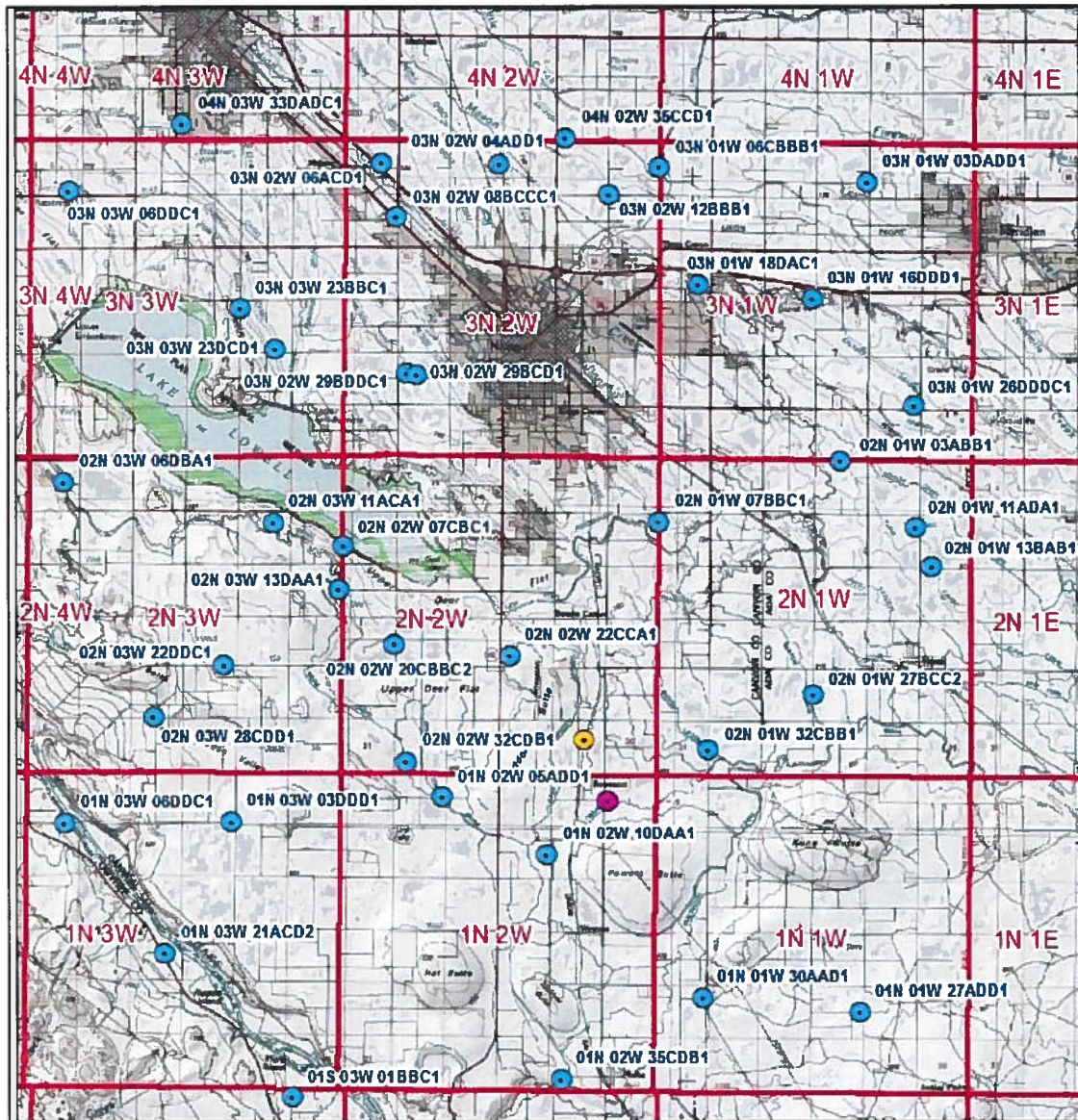
4. LOCAL IMPACTS OF PROPOSED PUMPING

Existing Groundwater Rights

SPF conducted a search of the Idaho Department of Water Resources (IDWR) database in May 2016 to identify water rights located within 0.5 miles of the POD and encompassing the proposed POD for each application (Figure 10). Ten existing water rights were identified within approximately¹² 0.5 miles of Application 63-34079: 7 existing rights authorized domestic and/or stock uses, 1 authorizes diversions for commercial uses, and 2 authorize diversions for irrigation and domestic uses. Eight water rights authorize diversions within approximately 0.5 miles of the POD for 63-34080: 6 for domestic and/or stock uses, and 2 for irrigation uses.

¹¹ Hydrographs show groundwater level trends for the 20-year period between 1995 and 2015. Screened or open intervals, when available, are indicated with "OI". The scale for depth-to-water indicated (y-axis) is 40-ft, unless otherwise indicated.

¹² Locations of PODs under existing water rights are approximate because they are shown in IDWR's water-rights database as centroids in a 40-acre quarter-quarter.



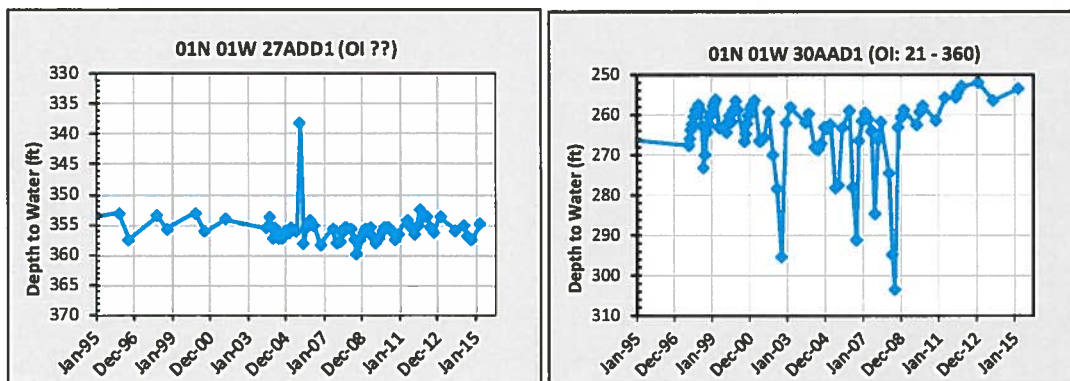


Figure 6. Groundwater levels, 01N 01W.

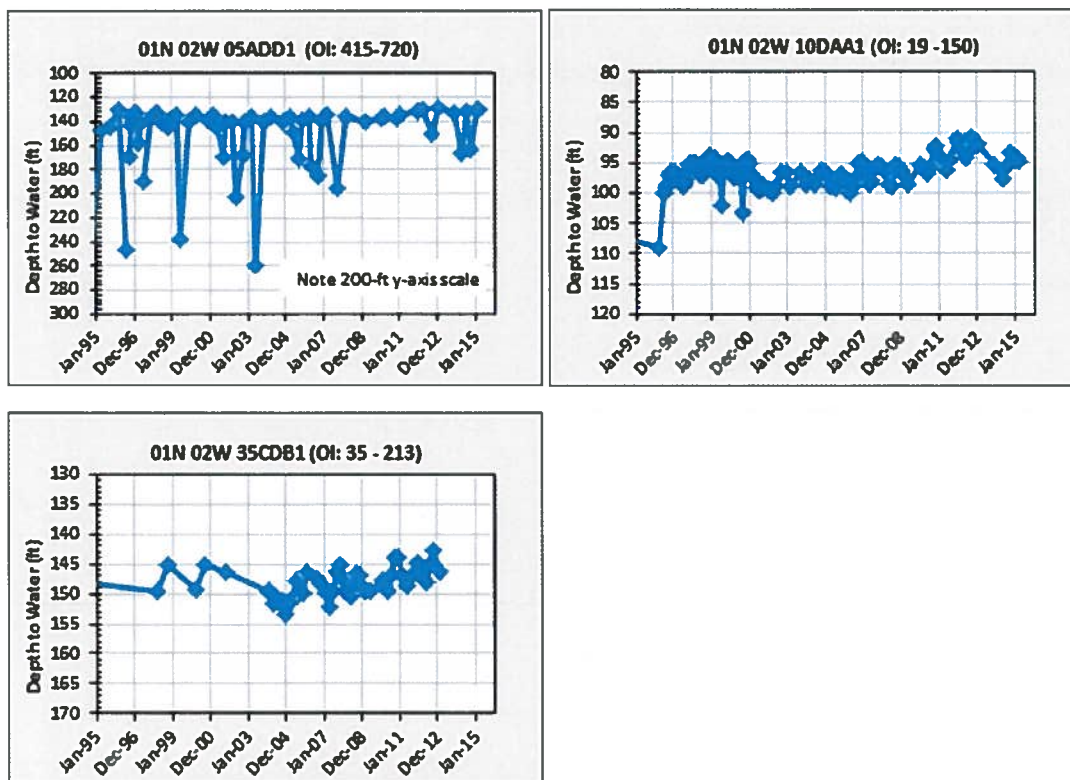


Figure 7. Groundwater levels, 01N 02W.

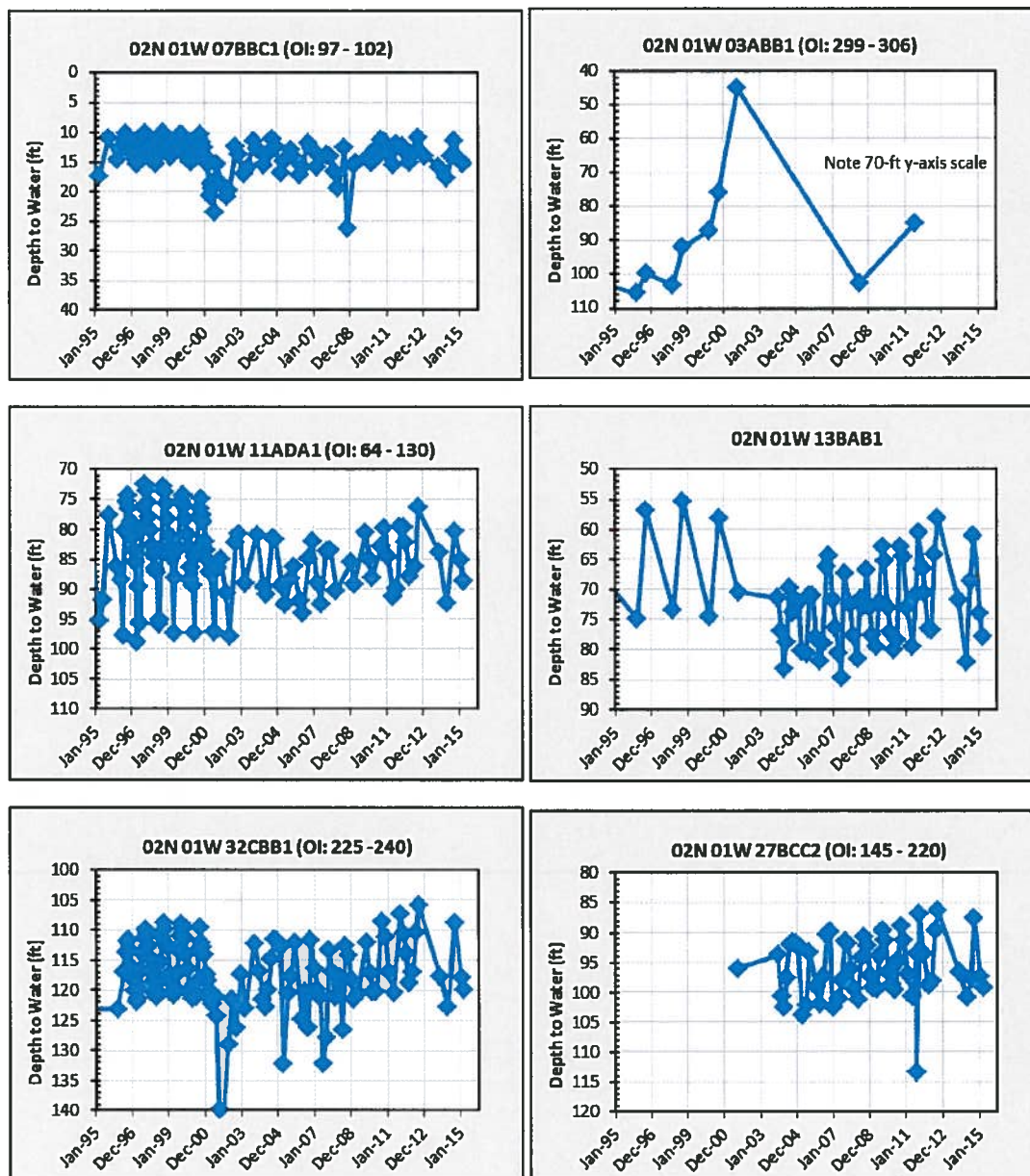


Figure 8. Groundwater levels, 02N 01W.

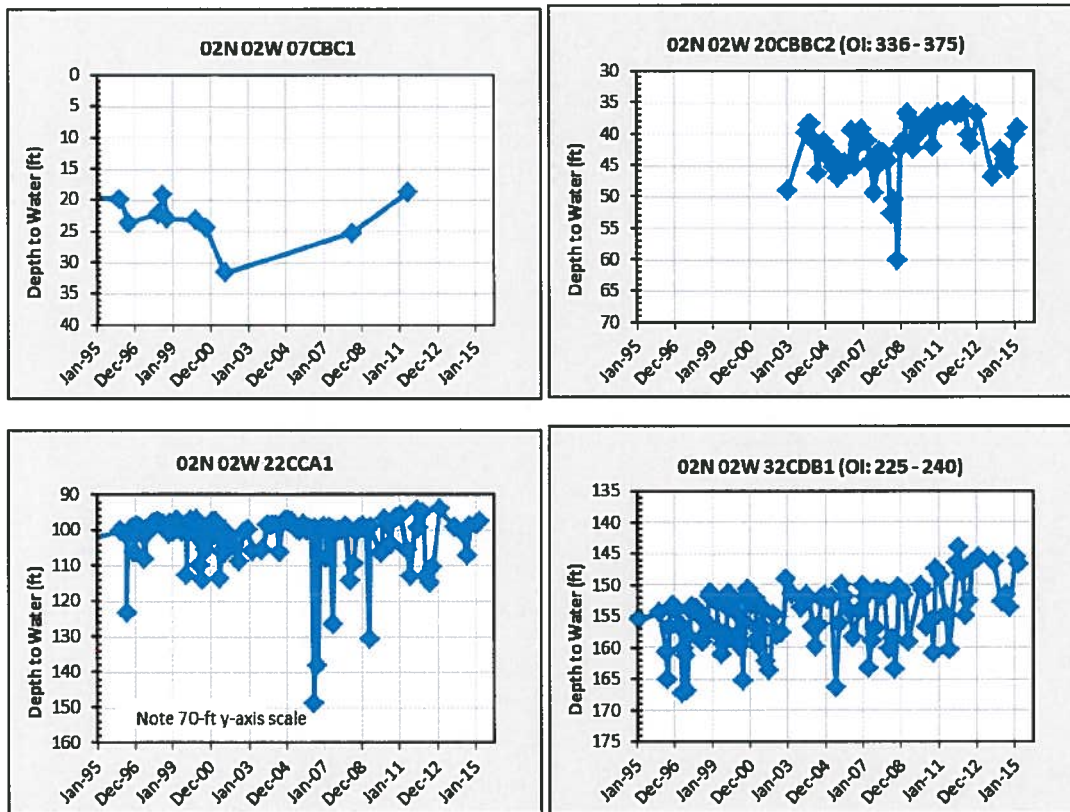


Figure 9. Groundwater levels, 02N 02W.

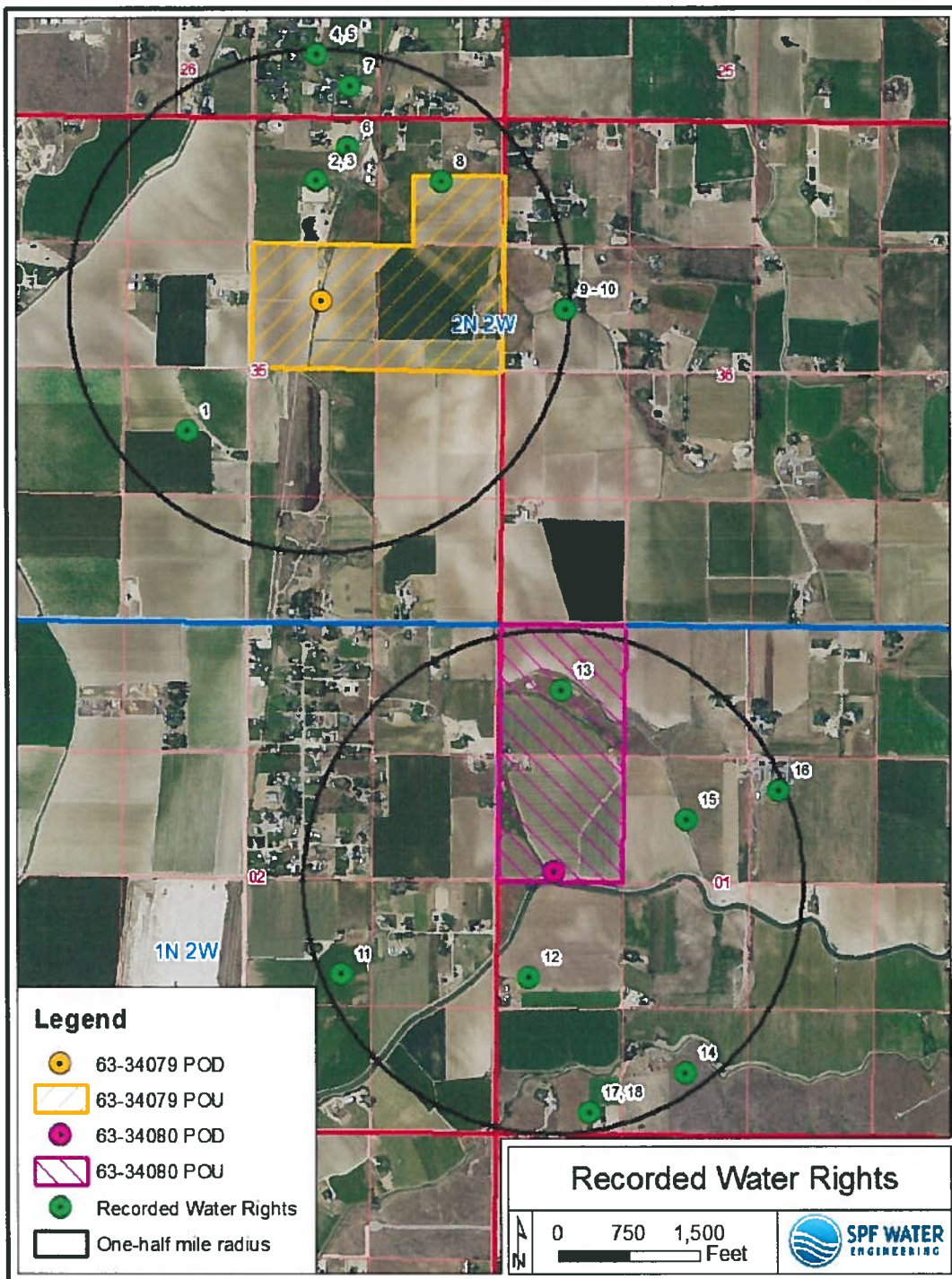


Figure 10. Water rights within 0.5 miles of the applications.

Theis Analysis

The Theis (1935) two-dimensional analytical solution was used to project drawdown from pumping associated with Applications 63-34079 and 63-34080. The method requires estimates of pumping rate, transmissivity, and storativity. The Theis analysis was performed using the highest and lowest pumping rates listed in Table 2. Estimates of aquifer transmissivity (Table 3) were based on calibrated Treasure Valley Hydrologic Project model (referred to hereinafter as the "TVHP model") hydraulic conductivity values (Petrich, 2004a) in the vicinity of the proposed diversions. It was assumed that most of the pumping would occur within a depth 200 feet of the water table; the median Model Layer 1 transmissivity in the vicinity of the proposed PODs is approximately 79,500 gallons per day per foot (gpd/ft). A single value for transmissivity was assumed to be representative of aquifer conditions for both applications. A storativity estimate of 0.005 (Freeze and Cherry, 1979) was used for the Theis analysis, which is a reasonable value for partially-confined aquifer conditions anticipated in vicinity of the applications.

Hydraulic Conductivity (TVHP Model)			
Model Layer	Low Kh	High Kh	Median Kh
	ft/day	ft/day	ft/day
1	36.2	80.8	53.1
Aquifer Transmissivity (based on 200-ft model layer thickness)			
Model Layer	Low T	High T	Median T
	gal/day/ft	gal/day/ft	gal/day/ft
1	54,200	120,800	79,500
This table is based on calibrated hydraulic conductivity values taken from the following model cells: (29,29), (30,29), (31,29), (29,30), (30,30), and (31,30).			

Table 3. Estimates of aquifer parameters (hydraulic conductivity and transmissivity) in the vicinity of the proposed PODs.

For application 63-34079, the projected drawdown at the end of the 245-day growing season is between approximately 1 and 2 feet at a distance of 0.5 miles from the pumping well for proposed low- and high-end pumping rates of 150 gpm and 250 gpm, respectively. For application 63-34080, the projected drawdown at the end of the 245-day growing season is between approximately 0.8 and 1.5 feet at a distance of 0.5 miles from the pumping well for proposed low- and high-end pumping rates of 110 gpm and 190 gpm, respectively. In both cases, the seasonal drawdown was projected to be less than approximately 3 feet at a distance of approximately 0.25

miles from the proposed PODs. In each case, it is anticipated that water levels will fully recover following the irrigation season.

Projected Approximate Drawdown (feet) with Distance from Application at 245-Days (Growing Season)			
Application	Pumping Rate (gpm)	0.25-mile	0.5-mile
63-34079	150	1.4	1.0
	250	2.4	2.0
63-34080	110	1.1	0.8
	190	1.8	1.5

Table 4. Projected drawdown summary.

The Theis solution approximates drawdown effects in two-dimensions only. The actual drawdown is expected to differ from the theoretical estimate, given that some vertical component of flow and well inefficiency effects are expected. Also, the solution does not take into account recharge, which would serve to reduce the projected drawdown from the proposed pumping.

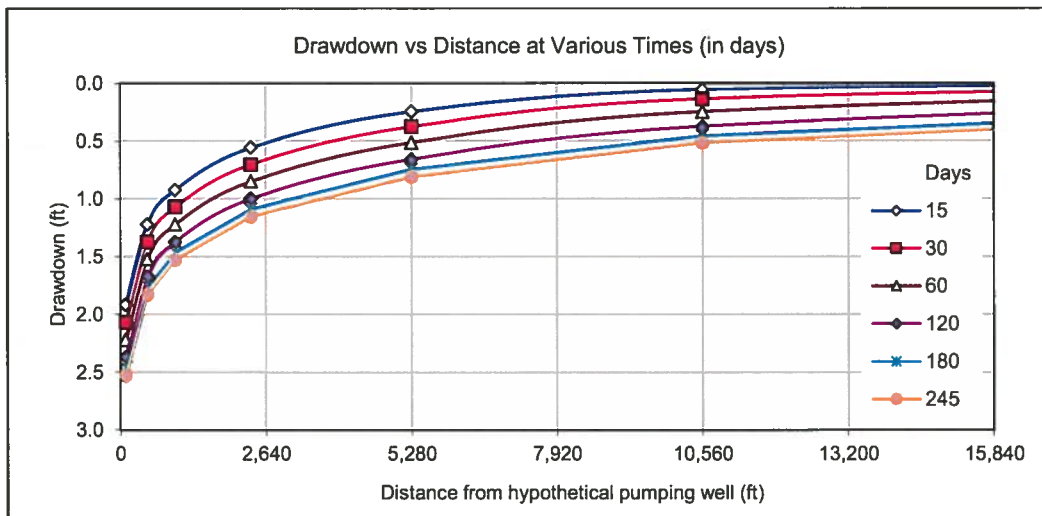


Figure 11. Predicted drawdown based on a pumping rate of 150 gpm, transmissivity of 79,500 gpd/ft, and storativity of 0.005 for Application 63-34079.

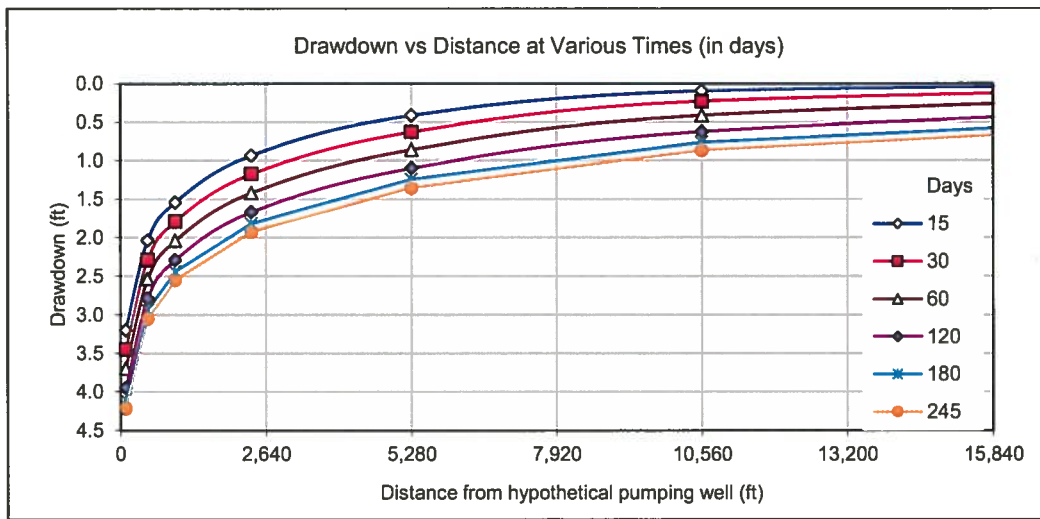


Figure 12. Predicted drawdown based on a pumping rate of 250 gpm, transmissivity of 79,500 gpd/ft, and storativity of 0.005 for Application 63-34079.

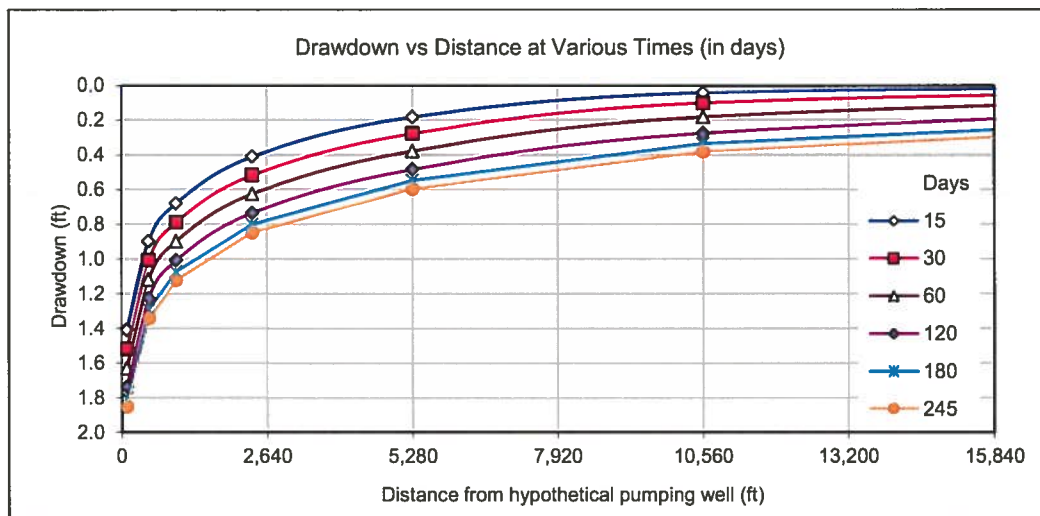


Figure 13. Predicted drawdown based on a pumping rate of 110 gpm, transmissivity of 79,500 gpd/ft, and storativity of 0.005 for Application 63-34080.

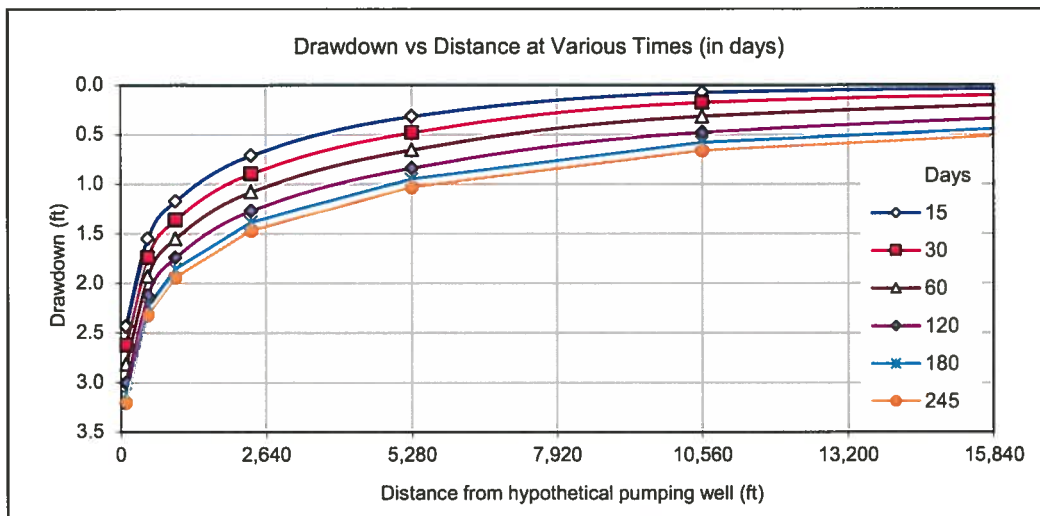


Figure 14. Predicted drawdown based on a pumping rate of 190 gpm, transmissivity of 79,500 gpd/ft, and storativity of 0.005 for Application 63-34080.

5. IMPACTS TO LAKE LOWELL

Of concern to the Boise Project Board of Control is the impact of the proposed pumping on stored water in Lake Lowell. This section describes the use of the TVHP groundwater flow model (Petrich, 2004a; Petrich, 2004b) to simulate potential impacts associated with diversions under Applications 63-34079 and 63-34080.

TVHP Model

The TVHP model was originally developed to simulate possible changes in recharge and the potential effects of regional increases in groundwater withdrawals. The model was reviewed during the development process by a Technical Advisory Committee and subsequently as part of the Treasure Valley Comprehensive Aquifer Management Planning (CAMP) process (Cosgrove, 2010). Seven existing numerical groundwater flow models were evaluated as part of the CAMP process:

- Lindgren Treasure Valley Model (1982)
- USGS Western Snake Plain Model (1991)
- Treasure Valley Hydrologic Project (2004)
- University of Idaho M3 Eagle Area Model (2007)
- Pacific Groundwater Group M3 Eagle Area Model (2008)
- Bureau of Reclamation Purdum Drain Model (2008)

- Bureau of Reclamation New York Canal Linked Ground-water/Economic Model (2009).

Cosgrove concluded that the TVHP model was the best-developed regional model for CAMP purposes. The TVHP model was constructed using the three-dimensional, finite difference MODFLOW code (Harbaugh, 2000; McDonald and Harbaugh, 1988; McDonald and Harbaugh, 1996). The model was calibrated under steady-state hydraulic conditions using the automated parameter estimation code PEST (Doherty, 1998; Doherty, 2000). The model was constructed with four layers, with layers 1, 2, 3 and 4 having thicknesses of 200 feet, 200 feet, 400 feet, and 400 feet, respectively (Petrich, 2004a). Horizontal and vertical hydraulic conductivity parameters were calibrated to 200 averaged water-level observations and 6 actual and estimated vertical-head differences.

The TVHP model calculates a summary of flows (i.e., a water budget) into and out of the model domain at the end of each simulation. Model fluxes (i.e., flows) are aggregated by flows (1) into or out of constant-head cells (representing the Snake River), river cells (representing the Boise River), head-dependent boundary cells (representing Lake Lowell), and (2) into or out of cells with simulated wells, drains, and recharge. These water-budget components were used to evaluate the potential impact of pumping under Applications 63-34079 and 63-34080 on Lake Lowell.

Numerical Simulation of Application Groundwater Withdrawals

At question in this analysis is the possible impact of pumping under the proposed applications on Lake Lowell. Two model runs were conducted to address this question. The first model run consisted of a simulated increase in groundwater withdrawals of 235 AF (Table 2) based on an assumed annual supplemental diversion of 1.4 AF/acre. The second model run consisted of a simulated increase in groundwater withdrawals of 42 AF/year, based on a 0.25-AF/acre supplemental water requirement. Because the model simulates impacts on a study-state basis, these withdrawals were simulated as uniform rates (ranging from an aggregate of 146 gpm in the first model run to 26 gpm in the second model run).

The simulated Lake Lowell depletion from a 235-AF groundwater withdrawal under Applications 63-34079 and 63-34080 consist of approximately 6.1 AF (Table 5). This depletion consists of an approximate 3.1-AF increase in seepage *from* Lake Lowell and a 3-AF decrease in aquifer discharge *to* Lake Lowell. Similarly, the simulated impact of a 42-AF groundwater withdrawal is approximately 1.1 AF (0.6-AF increase in seepage from Lake Lowell and a 0.5-AF decreased shallow groundwater discharge to Lake Lowell). In both cases, under steady-state hydraulic conditions, the simulated Lake Lowell depletion from increases in pumping under the proposed applications was approximately 2.6% of withdrawals (Table 6).

Simulated Annual Water Budget						
TVHP Base Calibration ⁽¹⁾			235 AF/yr Annual Withdrawal Increase ⁽²⁾			
	ft ³ /day	AF/yr	ft ³ /day	AF/yr	Difference w Base (AF/yr)	Percentage of 235 AF
In (inflows to aquifer)						
Constant head (seepage from Snake River)	28,891	242	28,891	242	0	
Wells (underflow)	108,000	905	108,000	905	0	
Drains (seepage from drains to aquifer)	0					
River leakage (seepage from Boise River)	5,784,138	48,467	5,785,246	48,476	9.3	3.9%
Head-dependent boundaries (seepage from Lake Lowell)	1,537,895	12,886	1,538,265	12,890	3.1	1.3%
Recharge (excluding recharge from underflow, wells, drains, river leakage, and head-dependent boundaries)	116,205,088	973,711	116,205,088	973,711	0	
Total in	123,664,008	1,036,211	123,665,488	1,036,224	-12	
Out (discharge from aquifer)						
Constant head (subsurface discharge to Snake River)	17,350,556	145,385	17,344,504	145,334	-51	-21.6%
Wells (groundwater withdrawals)	23,076,956	193,368	23,105,026	193,603	235	100.0%
Drains (subsurface discharge to drains)	36,667,716	307,248	36,648,220	307,084	-163	-69.5%
River leakage (subsurface discharge to Boise River)	46,486,872	389,525	46,486,192	389,519	-5.7	-2.4%
Head-dependent boundaries (subsurface discharge to Lake Lowell)	81,962	687	81,600	684	-3.0	-1.3%
Total out	123,664,064	1,036,212	123,665,536	1,036,224	-12	
In - Out	-56	0	48	0	0	
Percent discrepancy	0.00%	0.00%		0.00%	0.00%	
Notes: (1) Base simulation described in Petrich (2004) as "ss2bc" (2) Annual withdrawals of 133 AF/yr applied to cell (layer, row, column) 1,30,29 (63-34079) and 102 AF/yr applied to cell 1,31,30 (63-34080).						

Table 5. Simulated annual water budget with a 235-AF/year withdrawal increase under Applications 63-34079 and 63-34080.

Simulated Annual Water Budget						
TVHP Base Calibration ⁽¹⁾			42 AF/yr Annual Withdrawal Increase ⁽²⁾			
	ft ³ /day	AF/yr	ft ³ /day	AF/yr	Difference w Base (AF/yr)	Percentage of 42 AF
In (inflows to aquifer)						
Constant head (seepage from Snake River)	28,891	242	28,891	242	0	
Wells (underflow)	108,000	905	108,000	905	0	
Drains (seepage from drains to aquifer)	0					
River leakage (seepage from Boise River)	5,784,138	48,467	5,784,336	48,468	1.7	3.9%
Head-dependent boundaries (seepage from Lake Lowell)	1,537,895	12,886	1,537,961	12,887	0.6	1.3%
Recharge (excluding recharge from underflow, wells, drains, river leakage, and head-dependent boundaries)	116,205,088	973,711	116,205,088	973,711	0	
Total in	123,664,008	1,036,211	123,664,272	1,036,213	-2	
Out (discharge from aquifer)						
Constant head (subsurface discharge to Snake River)	17,350,556	145,385	17,349,474	145,376	-9	-21.6%
Wells (groundwater withdrawals)	23,076,956	193,368	23,081,970	193,410	42	100.0%
Drains (subsurface discharge to drains)	36,667,716	307,248	36,664,236	307,219	-29	-69.4%
River leakage (subsurface discharge to Boise River)	46,486,872	389,525	46,486,752	389,524	-1.0	-2.4%
Head-dependent boundaries (subsurface discharge to Lake Lowell)	81,962	687	81,897	686	-0.5	-1.3%
Total out	123,664,064	1,036,212	123,664,328	1,036,214	-2	
In - Out	-56	0	48	0	0	
Percent discrepancy	0.00%	0.00%		0.00%	0.00%	
Notes: (1) Base simulation described in Petrich (2004) as "ss2bc" (2) Annual withdrawals of 24 AF/yr applied to cell (layer, row, column) 1,30,29 (63-34079) and 18 AF/yr applied to cell 1,31,30 (63-34080).						

Table 6. Simulated annual water budget with a 42-AF/year withdrawal increase under Applications 63-34079 and 63-34080.

6. FINDINGS AND CONCLUSIONS

The general conclusion from this analysis is that there is a sufficient groundwater supply for the proposed applications. Specific conclusions from this analysis include the following:

1. Application 63-34079 requests authorization to withdrawal groundwater up to 1.9 cfs (853 gpm) for the supplemental irrigation of 95 acres in an area approximately 5.0 miles southeast of Lake Lowell.
2. Application 63-34080 requests authorization to withdrawal groundwater up to 1.46 cfs (655 gpm) for the supplemental irrigation of 73 acres in an area approximately 6.3 miles southeast of Lake Lowell.
3. The net irrigation requirement (precipitation deficit) for the proposed place of use is estimated at 2.0 AF per acre. Assuming a 50% irrigation efficiency, the irrigation requirement is 4.0 AF per acre. Supplemental irrigation requirement is estimated to be 1.4 AF per acre (235 acre feet annually over the combined 168-acre place of use), assuming 2.6 AF per acre average surface water delivery.
4. Based on review of static water levels and strata penetrated by surrounding wells, the proposed wells can be constructed in productive water-bearing zones that are sufficient to meet the flow requirements proposed on the applications.
5. Groundwater levels in the general vicinity of the proposed applications are stable (or rising), indicating the presence of groundwater available for appropriation.
6. The proposed well locations under applications 63-34079 and 63-34080 appear to be at least 750 feet away from any neighboring wells. Impacts from the proposed pumping under these applications are projected to be less than approximately 3 feet at a distance of 750 feet from either of the proposed PODs.
7. The distance between the proposed PODs and Lake Lowell is at least 5 miles. At this distance, it is unlikely that the Applicant will "directly withdraw water from Lake Lowell" as is suggested in the Boise Project protest to Application 63-34079 and 63-34080. However, based on TVHP model simulations, the long-term depletionary impact on Lake Lowell (i.e., under steady-state hydraulic conditions) will be approximately 2.6% of the net volume withdrawn under the proposed applications.
8. Estimated maximum annual depletion to Lake Lowell will be approximately 6.1 AF (2.6% of 235 AF) if all 235 AF are consumed. Due to irrigation efficiency, the pumping volume assumes that only 50% of the delivered water will be consumed. Therefore, a portion of the pumping volume will return to the aquifer through seepage and infiltration, and the net pumping volume could be significantly less than 235 AF. Given that

the depletion is proportional to net pumping volume, the actual depletion from pumping 235 AF annually will be less than 6 AF. Furthermore, the 1.4 AF per acre (235 AF for 168 acres) supplemental irrigation requirement may be conservative, because long-term average surface water deliveries likely exceed 2.6 AF per acre.

9. Depletions to Lake Lowell can be fully mitigated by delivering 2.6% of net annual pumping volume to Lake Lowell. The water can be provided by non-diversion of a portion of the annual surface water delivery allocated to the proposed places of use.
10. The simulated steady-state impact of up to 6 AF from pumping an estimated 235 AF annually under 63-34079 and 63-34079 does not necessarily represent injury to existing water rights. In general, a 6-AF impact would appear to be negligible (and unmeasurable) in a reservoir that stores approximately 173,000 AF. Determination of actual injury would require a full analysis Lake Lowell reservoir fill history, carryover history, analysis of floodwater releases from upper Boise River reservoirs (under the presumption that floodwater releases could be used to bolster Lake Lowell volumes if space is available), and an analysis of actual beneficial use by water users served by the Boise Project.

7. REFERENCES

- Bond, J.G., Wood, C.H., 1978. Geologic map of Idaho. Idaho Department of Lands, Bureau of Mines and Geology, 1:500,000 scale.
- Cosgrove, D.M., 2010. Evaluation of Ground Water Models in the Treasure Valley, Idaho Area, consulting report prepared by Western Water Consulting, Inc. for the Idaho Department of Water Resources, June, 2010.
- Doherty, J., 1998. PEST - Model Independent Parameter Estimation, Watermark Computing, Australia.
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- Harbaugh, A.W., Banta, E.R., Hill, M.C., and McDonald, M.G., 2000. MODFLOW-2000, the U.S. Geological Survey modular ground-water model--user guide to modularization concepts and the ground-water flow process, U.S. Geological Survey Open-File Report 00-92.
- McDonald, M.G., Harbaugh, A.W., 1988. A modular three-dimensional finite difference ground-water flow model. Techniques of Water-Resources Investigation of the United States Geological Survey. Book 6: Modeling Techniques.
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- Mitchell, V.E., Bennett, E.H., 1979. Geologic map of the Boise Quadrangle, Idaho, Geologic Map Series (2 degree Quadrangle). Idaho Bureau of Mines and Geology.
- Petrich, C., Urban, S., 2004. Characterization of Ground Water Flow in the Lower Boise River Basin, Idaho Water Resources Research Institute and the Idaho Department of Water Resources, Research Report IWRRI-2004-01.
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Appendix A
Applications 63-34079 and 63-34080

RECEIVED**MAY 08 2015****WATER RESOURCES
WESTERN REGION****STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
APPLICATION FOR PERMIT**

To appropriate the public waters of the State of Idaho

989-5090

1. Name of applicant(s) Chris EmmertPhone 466-3670Name connector (check one) ☐ and ☐ or ☐ and/orMailing address 7180 BOUMONT RD.City NampaState ID Zip 83686

Email _____

2. Source of water supply ground

which is a tributary of _____

3. Location of point(s) of diversion:

TWP	RGE	SEC	Govt Lot	1/4	1/4	1/4	County	Source	Local name or tag #
<u>2N</u>	<u>2W</u>	<u>35</u>					<u>SW NE CANYON</u>	<u>ground</u>	

4. Water will be used for the following purposes:

Amount 1.9 for Irrigation purposes from 3-1 to 11-1 (both dates inclusive)
(cfs or acre-feet per year)Amount _____ for _____ purposes from _____ to _____ (both dates inclusive)
(cfs or acre-feet per year)Amount _____ for _____ purposes from _____ to _____ (both dates inclusive)
(cfs or acre-feet per year)Amount _____ for _____ purposes from _____ to _____ (both dates inclusive)
(cfs or acre-feet per year)5. Total quantity to be appropriated is (a) 1.9 cubic feet per second (cfs) and/or (b) _____ acre feet per year (af).

6. Proposed diverting works:

a. Describe type and size of devices used to divert water from the source. 25 horseb. Height of storage dam NA feet; active reservoir capacity _____ acre-feet; total reservoir capacity _____ acre-feet. If the reservoir will be filled more than once each year, describe the refill plan in item 11. For dams 10 feet or more in height OR reservoirs with a total storage capacity of 50 acre-feet or more, submit a separate Application for Construction or Enlargement of a New or Existing Dam. Application required? ☐ Yes ☐ Noc. Proposed well diameter is 6"-8" inches; proposed depth of well is 225' feet.d. Is ground water with a temperature of greater than 85°F being sought? ☐ Yes ☒ Noe. If well is already drilled, when? _____; drilling firm _____;
well was drilled for (well owner) _____; Drilling Permit No. _____

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

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

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

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

d. Domestic; show number of households _____

e. Other; describe fully. _____

8. Description of place of use:

- If water is for irrigation, indicate acreage in each subdivision in the tabulation below.
- 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	
2N	2W	35	15		40	40													95

Total number of acres to be irrigated: 95

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

Boise - KUNA Irrigation District

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

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

The reason for this well is to supplement the irrigation water on this farm. Because we grow seed crops & by nature they take a lot of water throughout the whole growing season we are continually short of water.
ONION seed, sweet corn seed, carrot seed, beans for seed

12. Time required for completion of works and application of water to proposed beneficial use is 5 years (minimum 1 year).
13. **MAP OF PROPOSED PROJECT REQUIRED** - Attach an 8½" x 11" map clearly identifying the proposed point of diversion, place of use, section #, township & range. A photocopy of a USGS 7.5 minute topographic quadrangle map is preferred.

The information contained in this application is true to the best of my knowledge. I understand that any willful misrepresentations made in this application may result in rejection of the application or cancellation of an approval.

Chris Emmert
Signature of Applicant

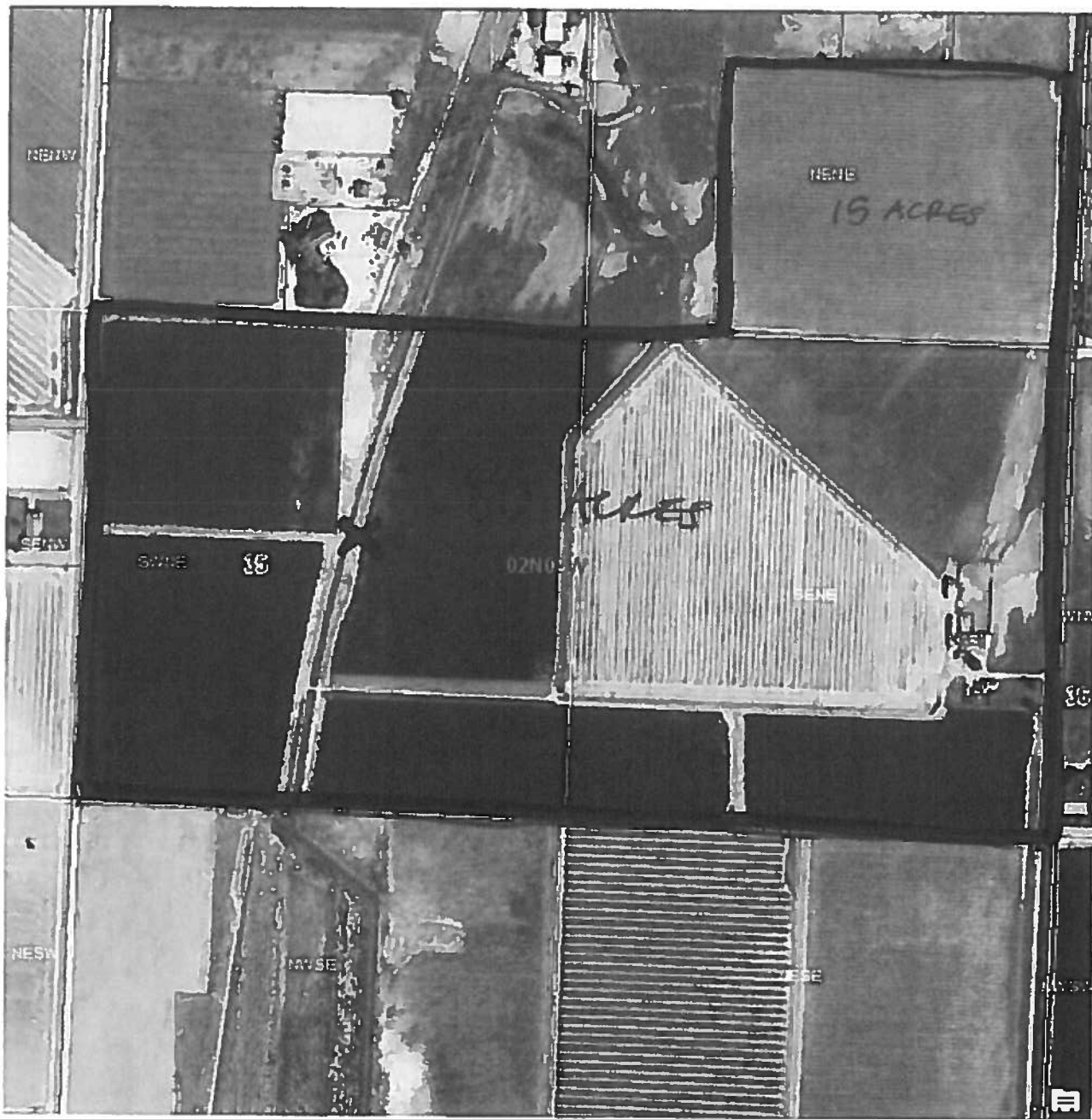
Signature of Applicant

CHRIS EMMERT - owner
Print Name (and title, if applicable)

Print Name (and title, if applicable)

Received by [Signature] Date 5/8/15 Time 10:45 Preliminary check by RS
Fee \$ 290⁰⁰ Received by [Signature] Receipt No. W043077 Date 5/8/15

EMMERT



95 ACRES

63-34079

09/24/2015 15:45

2083342348

ID WATER RESOURCES

PAGE 02/04

RECEIVED

FORM 202 (1/13)

AMENDED

9-25-2015

Ident. No. 63-34080

SEP 25 2015 MAY 08 2015

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
APPLICATION FOR PERMIT

To appropriate the public waters of the State of Idaho

WATER RESOURCES
WESTERN REGION1. Name of applicant(s) Chris EmmertName connector (check one): ☐ and ☐ or ☐ and/orPhone 989-5090
466-3670Mailing address 7180 BOWMONT AVECity NAMPAState ID Zip 83686

Email _____

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

3. Location of point(s) of diversion:

TWP	RGE	SEC	Cont Lot	1/4	1/4	1/4	County	Source	Local name or tag #
<u>1N</u>	<u>2W</u>	<u>10</u>					<u>SW NEW CANYON</u>	<u>ground</u>	
		<u>10</u>							
		<u>10</u>							
		<u>10</u>							

4. Water will be used for the following purposes:

Amount 1.46 for IRIGATION purposes from 3-1 to 11-1 (both dates inclusive)
(cfs or acre-feet per year)Amount _____ for _____ purposes from _____ to _____ (both dates inclusive)
(cfs or acre-feet per year)Amount _____ for _____ purposes from _____ to _____ (both dates inclusive)
(cfs or acre-feet per year)Amount _____ for _____ purposes from _____ to _____ (both dates inclusive)
(cfs or acre-feet per year)5. Total quantity to be appropriated is (a) 1.46 cubic feet per second (cfs) and/or (b) _____ acre feet per year (af).

6. Proposed diverting works:

a. Describe type and size of devices used to divert water from the source. 20 horse - 25-horseb. Height of storage dam NA feet; active reservoir capacity _____ acre-feet; total reservoir capacity _____ acre-feet. If the reservoir will be filled more than once each year, describe the refill plan in item 11. For dams 10 feet or more in height OR reservoirs with a total storage capacity of 50 acre-feet or more, submit a separate Application for Construction or Enlargement of a New or Existing Dam. Application required? ☐ Yes ☐ Noc. Proposed well diameter is 6"-8" inches; proposed depth of well is 225' feet.d. Is ground water with a temperature of greater than 85°F being sought? ☐ Yes ☒ Noe. If well is already drilled, when? _____: drilling firm _____:
well was drilled for (well owner) _____: Drilling Permit No. _____

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

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

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

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

d. Domestic; show number of households _____

e. Other; describe fully. _____

8. Description of place of use:

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

TWP	RGE	SEC	NE				NW				SW				SE				TOTALS
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
1N	2W	7						33	40										73

Total number of acres to be irrigated: 73

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

BOISE-KUNA IRRIGATION DISTRICT

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

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

THE REASON FOR THIS WELL IS TO SUPPLEMENT THE IRRIGATION WATER ON THIS FARM. BECAUSE WE GROW SEED CROPS + BY NATURE THEY TAKE ALOT OF WATER THROUGHOUT THE WHOLE GROWING SEASON WE ARE CONTINUALLY SHORT OF WATER.

CARION SEED, SWEETCORN SEED, CARROT SEED BEANFOR SEED

12. Time required for completion of works and application of water to proposed beneficial use is 5 years (minimum 1 year).
13. MAP OF PROPOSED PROJECT REQUIRED - Attach an 8 1/2" x 11" map clearly identifying the proposed point of diversion, place of use, section #, township & range. A photocopy of a USGS 7.5 minute topographic quadrangle map is preferred.

The information contained in this application is true to the best of my knowledge. I understand that any willful misrepresentations made in this application may result in rejection of the application or cancellation of an approval.

Chris Emmert
Signature of Applicant

Signature of Applicant

CHRIS EMMERT - OWNER
Print Name (and title, if applicable)

Print Name (and title, if applicable)

Received by RS Date 9-25-15 Time 9:21 am Preliminary check by RS
Fee \$ 2000 Receipted by GS Receipt No. W043077 Date 5/8/15

*FEE RECEIVED WITHOUT FINAL APPLICATION.

EMMERT



73 ACRES

63-34080

Appendix B
Drillers' Reports for Wells Listed in Water Right
Review

Drillers' Reports 63-34079

3

Form 238-7
6/07IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

861823

1

1. WELL TAG NO. D 0060086

Drilling Permit No. _____

Water right or injection well # _____

2. OWNER

Name Shadow Mountain HomesAddress 52 Palmetto Ave #102City Eagle State Id Zip 83616

3. WELL LOCATION:

Twp. 2 North ☒ or South ☐ Rge. 2 East ☐ or West ☒Sec. 26 SW 1/4 SE 1/4 SW 1/4
10 acres 40 acres 160 acresGov't Lot _____ County CanyonLat. 43 ° 28.456 (Deg. and Decimal minutes)Long. 116 ° 32.875 (Deg. and Decimal minutes)Address of Well Site 7730 Top Knot RdCity Nampa

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

Lot _____ Blk. _____ Sub. Name _____

4. USE:

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

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

☒ New Well ☐ Replacement well ☐ Modify existing well☐ Abandonment ☐ Other _____

6. DRILL METHOD:

☒ Air Rotary ☐ Mud Rotary ☐ Cable ☐ Other _____

7. SEALING PROCEDURES

Seal material	From (ft)	To (ft)	Quantity (lbs or ft ³)	Placement method/procedure
3/8bentonite	0	60	1500	pour

8. CASING/LINER:

Diameter (nominal)	From (ft)	To (ft)	Gauge/Schedule	Material	Casing	Liner	Threaded	Welded
6	2	198	.250	steel	☒	☐	☐	☒
5	192	203	.250	steel	☒	☐	☐	☒
5	213	239	.250	steel	☒	☐	☐	☒

Was drive shoe used? ☒ Y ☐ N Shoe Depth(s) 198

9. PERFORATIONS/SCREENS:

Perforations ☐ Y ☒ N Method _____Manufactured screen ☒ Y ☐ N Type JohnsonMethod of installation set in

From (ft)	To (ft)	Slot size	Number/ft	Diameter (nominal)	Material	Gauge or Schedule
203	213	.10	10	5	ss	.250

Length of Headpipe 11 Length of Tailpipe 25Packer ☒ Y ☐ N Type 6-wing

10. FILTER PACK:

Filter Material	From (ft)	To (ft)	Quantity (lbs or ft ³)	Placement method
-----------------	-----------	---------	------------------------------------	------------------

11. FLOWING ARTESIAN:

Flowing Artesian? ☐ Y ☒ N Artesian Pressure (PSIG) _____

Describe control device _____

12. STATIC WATER LEVEL and WELL TESTS:

Depth first water encountered (ft) 142 Static water level (ft) 121Water temp. (°F) 69 Bottom hole temp. (°F) _____Describe access port Well Cap

Well test:

Test method:

Drawdown (feet)	Discharge or yield (gpm)	Test duration (minutes)	Pump	Bailer	Air	Flowing artesian
101	50	1 hr	☐	☐	☒	☐

Water Quality test or comments:

13. LITHOLOGIC LOG and/or repairs or abandonment:

Bore Dia. (in)	From (ft)	To (ft)	Remarks, lithology or description of repairs or abandonment, water temp.	Water	
				Y	N
10	0	3	top soil		x
10	3	10	red cinder		x
10	10	17	gravel		x
10	17	65	brown clay with thin sand strips		x
6	65	95	brown clay		x
6	95	111	sand		x
6	111	114	brown clay		x
6	114	131	sand		x
6	131	142	brown clay		x
6	142	150	sand	x	
6	150	153	brown clay		x
6	153	161	sand	x	
6	161	170	brown clay		x
6	170	176	sand	x	
6	176	182	brown clay		x
6	182	185	sand	x	
6	185	190	brown clay		x
6	190	215	medium to fine sand	x	
6	215	230	brown sandy clay	x	
6	230	233	fine sand	x	
6	233	240	brown clay		x

RECEIVED

SEP 06 2011

WATER RESOURCES
WESTERN REGION

Completed Depth (Measurable)

239

Date: Started 8-23-11Completed 8-29-11

14. DRILLER'S CERTIFICATION

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

Company Name Waterpro Well Drilling Inc. Co. No. 626*Principal Driller Monte Post Date 8-30-11

*Driller _____ Date _____

*Operator II _____ Date _____

Operator I _____ Date _____

*Signature of Principal Driller and rig operator are required.

WELL DRILLER'S REPORT

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

1. WELL OWNER Name <u>Bob Slavenport</u> Address <u>Nampa</u> Owner's Permit No. _____	7. WATER LEVEL Static water level <u>150</u> feet below land surface Flowing? ☐ Yes ☐ No G.P.M. flow _____ Temperature _____ ° F. Quality _____ Artesian closed-in pressure _____ p.s.i. Controlled by ☐ Valve ☐ Cap ☐ Plug																																																																						
2. NATURE OF WORK ☒ New well ☐ Deepened ☐ Replacement ☐ Abandoned (describe method of abandoning) _____	8. WELL TEST DATA ☐ Pump ☐ Bailer ☐ Other <table border="1"><thead><tr><th>Discharge G.P.M.</th><th>Draw Down</th><th>Hours Pumped</th></tr></thead><tbody><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr></tbody></table>	Discharge G.P.M.	Draw Down	Hours Pumped																																																																			
Discharge G.P.M.	Draw Down	Hours Pumped																																																																					
3. PROPOSED USE ☒ Domestic ☐ Irrigation ☐ Test ☐ Other (specify type) _____ ☐ Municipal ☐ Industrial ☐ Stock ☐ Waste Disposal or Injection	9. LITHOLOGIC LOG 093497 <table border="1"><thead><tr><th rowspan="2">Hole Diam.</th><th colspan="2">Depth</th><th rowspan="2">Material</th><th colspan="2">Water</th></tr><tr><th>From</th><th>To</th><th>Yes</th><th>No</th></tr></thead><tbody><tr><td> </td><td>0</td><td>28</td><td>Sand + gravel</td><td> </td><td>X</td></tr><tr><td> </td><td>28</td><td>54</td><td>Sand + clay</td><td> </td><td>X</td></tr><tr><td> </td><td>54</td><td>79</td><td>Sand</td><td> </td><td>X</td></tr><tr><td> </td><td>79</td><td>95</td><td>Clay</td><td> </td><td>X</td></tr><tr><td> </td><td>95</td><td>120</td><td>Sandy clay</td><td> </td><td>X</td></tr><tr><td> </td><td>120</td><td>165</td><td>Fine sandy clay</td><td>X</td><td> </td></tr><tr><td> </td><td>165</td><td>175</td><td>Sand clay</td><td> </td><td>X</td></tr><tr><td> </td><td>175</td><td>190</td><td>Sandy clay</td><td> </td><td>X</td></tr><tr><td> </td><td>190</td><td>199</td><td>Sand clay</td><td> </td><td>X</td></tr><tr><td> </td><td>199</td><td> </td><td>Sand + silt clay</td><td>X</td><td> </td></tr></tbody></table>	Hole Diam.	Depth		Material	Water		From	To	Yes	No		0	28	Sand + gravel		X		28	54	Sand + clay		X		54	79	Sand		X		79	95	Clay		X		95	120	Sandy clay		X		120	165	Fine sandy clay	X			165	175	Sand clay		X		175	190	Sandy clay		X		190	199	Sand clay		X		199		Sand + silt clay	X	
Hole Diam.	Depth		Material	Water																																																																			
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	54	79	Sand		X																																																																		
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	190	199	Sand clay		X																																																																		
	199		Sand + silt clay	X																																																																			
4. METHOD DRILLED ☐ Cable ☒ Rotary ☐ Dug ☐ Other	 MAR 20 1978 Department of Water Resources Western Regional Office																																																																						
5. WELL CONSTRUCTION Diameter of hole <u>6</u> inches Total depth <u>199</u> feet Casing schedule: ☒ Steel ☐ Concrete <table border="1"><thead><tr><th>Thickness</th><th>Diameter</th><th>From</th><th>To</th></tr></thead><tbody><tr><td><u>250</u> inches</td><td><u>6</u> inches</td><td><u>1 1/2</u> feet</td><td><u>198</u> feet</td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr></tbody></table> Was casing drive shoe used? ☒ Yes ☐ No Was a packer or seal used? ☐ Yes ☒ No Perforated? ☐ Yes ☒ No How perforated? ☐ Factory ☐ Knife ☐ Torch Size of perforation _____ inches by _____ inches <table border="1"><thead><tr><th>Number</th><th>From</th><th>To</th></tr></thead><tbody><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr></tbody></table> Well screen installed? ☐ Yes ☒ No Manufacturer's name _____ Type _____ Model No. _____ Diameter _____ Slot size _____ Set from _____ feet to _____ feet Diameter _____ Slot size _____ Set from _____ feet to _____ feet Gravel packed? ☐ Yes ☒ No Size of gravel _____ Placed from _____ feet to _____ feet Surface seal depth <u>18</u> Material used in seal ☐ Cement grout ☒ Pudding clay ☐ Well cuttings Sealing procedure used ☐ Slurry pit ☐ Temporary surface casing ☒ Overbore to seal depth		Thickness	Diameter	From	To	<u>250</u> inches	<u>6</u> inches	<u>1 1/2</u> feet	<u>198</u> feet																	Number	From	To																																											
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Number		From	To																																																																				
6. LOCATION OF WELL Sketch map location must agree with written location. County <u>Canyon</u> <u>SE</u> 1/4 <u>SW</u> 1/4 Sec. <u>26</u> T. <u>2</u> N. R. <u>2</u> W. Subdivision Name <u>none</u> Lot No. _____ Block No. _____																																																																							
10. Work started <u>6/18/78</u> finished <u>6/19/78</u>																																																																							
11. DRILLERS CERTIFICATION Firm Name <u>Wainwright Drilling</u> Firm No. <u>101</u> Address <u>415 W. Pittkin Ave. Nampa</u> Date <u>8/22/78</u> Signed by (Firm Official) <u>Charles Davis</u> and _____ (Operator) _____																																																																							

IDAHO DEPARTMENT OF WATER RESOURCES WELL DRILLER'S REPORT

116 1143

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

5

1. WELL TAG NO. D 15830
DRILLING PERMIT NO. _____
Other IDWR No. _____

2. OWNER:
Name Lafe Builders
Address 315 E. Avalon
City Kuna State Id Zip 83634

3. LOCATION OF WELL by legal description:

Sketch map location must agree with written location.

	Twp. <u>2</u>	North ☒ or South ☐
	Rge. <u>2</u>	East ☐ or West ☒
	Sec. <u>26</u>	SE 1/4 SW 1/4
	Gov't Lot _____	County <u>Canyon</u>
Lat: _____		Long: _____
Address of Well Site <u>7266 Blackhawk Dr.</u>		City <u>Nampa</u>

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

Lt. 3 Blk. 1 Sub. Name Blackhawk-Sub.

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

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

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

7. SEALING PROCEDURES

SEAL/FILTER PACK			AMOUNT		METHOD
Material	From	To	Sacks or Pounds		
Bentonite	4	18	5		Overbore

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

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
6"	2	298	250	Steel	☒	☐	☒	☐

Length of Headpipe _____ Length of Tailpipe _____

9. PERFORATIONS/SCREENS

Perforations _____ Method _____
☒ Screens Screen Type PVC

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
300	310	1/8	50	4.5	PVC	☐	☐

10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

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

11. WELL TESTS:

Yield gal./min.	Drawdown	Pumping Level	Time
40	10	180	2
100		280	2

Water Temp. _____ Bottom hole temp. _____

Water Quality test or comments: _____

12. LITHOLOGIC LOG: (Describe repairs or abandonment)

Bore Dia.	From	To	Remarks: Lithology, Water Quality & Temperature	Water
				Y N
10"	0	5	Hard Clay	No
10"	5	10	Cemented Boulders	No
10"	10	19	Brown Sandy Clay/ strp sand	No
6"	19	45	Brown Sandy Clay	No
6"	45	130	Br & White sand/strps clay	No
6"	130	150	Br & White Sand/strps clay	No
6"	150	170	Brown Hard Clay	No
6"	170	197	Br Sand/Strips of clay	Yes
6"	197	208	Hard Sandstone	Yes
6"	208	215	Brown Sand	Yes
6"	215	265	Brown clay/cracks	Yes
6"	265	267	Brown Clay	No
6"	267	275	Brown Sand	Yes
6"	275	277	Brown Clay	No
6"	277	280	Brown & Black Sand	Yes
6"	280	282	Blue Clay	No
6"	282	295	Blue clay/strps of sand	Yes
6"	295	304	Blue Clay	No
6"	304	306	White Sand	Yes
6"	306	308	Blue Clay	No
6"	308	310	White Sand	Yes

Completed Depth 310' (Measurable)
 Date: Started 10/11/00 Completed 10/16/00

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 Can-Ada Well & Pump Firm No. 304
 Firm Official Earl Skinner Date 10/31/00
 and _____
 Driller or Operator [Signature] Date 10/31/00
 (Sign once if Firm Official & Operator)

IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

769592

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

6

1. WELL TAG NO. D0018671

DRILLING PERMIT NO. _____

Other IDWR No. _____

2. OWNER:

Name **PAT LOVELADY**

Address **7284 WHITEHAWK**

City **NAMPA**

State **ID** Zip **83887**

3. LOCATION OF WELL by legal description:

Sketch map location must agree with written location.

North ☒ or South ☐
East ☐ or West ☒
Twp **2** Rge **2** Sec **26**
Gov't Lot _____
County **CANYON**
Lat _____ Long _____
Address of Well Site **SAME**
City _____
Lt **4** Blk **1** Sub Name **BLACKHAWK**

4. USE:

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

5. TYPE OF WORK: check all that apply

☒ 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	From To	Sacks or Pounds	
BENTONITE	3 18	18 300		POUR

Was drive shoe used? ☒ Y ☐ N Shoe Depth(s) **198**

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

8. CASING/LINER:

Diameter	From To	Gauge	Material	Casing	Liner	Welded	Threaded
6	+2 198	250	STEEL	☒	☐	☒	☐

Length of Headpipe _____ Length of Tailpipe _____

9. PERFORATIONS/SCREENS:

☐ Perforations ☐ Screens
Method _____
Screen Type _____

From To	Slot Size	Number	Diameter	Material	Casing	Liner
					☐	☐

10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

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

11. WELL TESTS:

Yield gal./min	Drawdown	Pumping Level	Time
30	10	200	2 HR

Water Temp. _____

Bottom hole temp _____

Water Quality test or comments _____

Depth first Water Encounter _____

12. LITHOLOGIC LOG: (Describe repairs or abandonment)

Bore Dia	From	To	Remarks: Lithology, Water Quality & Temperature	Water
10	0	5	TOP SOIL	
	5	18	SAND/ GRAVEL	
6	18	28	SAND/ GRAVEL	
	28	70	LAYERS SAND/ CLAY	
	70	105	SAND	
	105	130	CLAY	
	130	142	SAND	X
	142	178	SAND/ CLAY LAYERS	
	178	180	CLAY	
	180	190	SAND	X
	190	210	HARD CLAY	
	210	220	SANDY CLAY	
	220	222	COARSE SAND	X

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AUG - 3 2001

Department of Water Resources

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JUL 20 2001

WATER RESOURCES
WESTERN REGION

Completed Depth **222** (Measurable)
Date: Started **6/26/2001** Completed **6/28/2001**

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 **DAVIS WELL & PUMP**

Firm No **101**

Firm Official

Chuck Davis

Date **7/9/01**

and

Driller or Operator

Date **7/9/01**

(Sign once if Firm Official & Operator)

FORWARD WHITE COPY TO WATER RESOURCES

IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

Office Use Only
Well ID No. 405883
Inspected by _____
Twp _____ Rge _____ Sec _____
1/4 _____ 1/4 _____ 1/4 _____
Lat: _____ : _____ Long: _____ : _____

1. WELL TAG NO. D 00 41764
DRILLING PERMIT NO. _____
Water Right or Injection Well No. _____

2. OWNER: Bud Painter
Name Bud Painter
Address 7586 Bennett Rd
City Nampa State Id Zip 83686

3. LOCATION OF WELL by legal description:

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

Twp. 2 North ☒ or South ☐
Rge. 2 East ☐ or West ☒
Sec. 26 1/4 SE 1/4 SW 1/4
Gov't Lot _____
Lat: _____ : _____ Long: _____ : _____
Address of Well Site 7628 Bennett Rd
City Nampa

(Give at least name of road + Distance to Road or Landmark)
Lt. _____ Blk. _____ Sub. Name _____

4. USE:

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

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

☒ New Well ☐ Modify ☐ Abandonment ☐ Other _____

6. DRILL METHOD:

☐ Air Rotary ☒ Cable ☐ Mud Rotary ☐ Other _____

7. SEALING PROCEDURES

Seal Material	From	To	Weight / Volume	Seal Placement Method
<u>Bentonite</u>	<u>3</u>	<u>34</u>	<u>850#</u>	<u>Pour in</u>

Was drive shoe used? ☒ Y ☐ N Shoe Depth(s) 200 ft
Was drive shoe seal tested? ☐ Y ☒ N How? _____

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
<u>6 7/8 + 2</u>	<u>200</u>	<u>250</u>	<u>Steel</u>	☒	☐	☒	☐	☐

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

9. PERFORATIONS/SCREENS PACKER TYPE

Perforation Method _____
Screen Type & Method of Installation _____

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

10. FILTER PACK

Filter Material	From	To	Weight / Volume	Placement Method

11. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

101 ft. below ground Artesian pressure _____ lb.
Depth flow encountered 101 ft. Describe access port or control devices: remove well cap

12. WELL TESTS:

☐ Pump ☒ Bailer ☐ Air ☐ Flowing Artesian

Yield gal./min.	Drawdown	Pumping Level	Time
<u>15</u>	<u>29'</u>	<u>130'</u>	<u>1 hr</u>

Water Temp. 56° Bottom hole temp. _____

Water Quality test or comments: _____

Depth first Water Encounter 101

13. LITHOLOGIC LOG: (Describe repairs or abandonment)

Bore Dia.	From	To	Remarks: Lithology, Water Quality & Temperature	Y	N
<u>10</u>	<u>0</u>	<u>34</u>	<u>dirt</u>		☒
<u>6</u>	<u>34</u>	<u>48</u>	<u>sand + gravel</u>		☒
	<u>48</u>	<u>61</u>	<u>Silty sand</u>		☒
	<u>61</u>	<u>65</u>	<u>white clay</u>		☒
	<u>65</u>	<u>89</u>	<u>Silty clay</u>		☒
	<u>89</u>	<u>104</u>	<u>white clay</u>		☒
	<u>104</u>	<u>107</u>	<u>sand</u>	☒	
	<u>107</u>	<u>116</u>	<u>Sandy clay</u>		☒
	<u>116</u>	<u>119</u>	<u>white clay</u>		☒
	<u>119</u>	<u>130</u>	<u>sand + clay layers</u>		☒
	<u>130</u>	<u>142</u>	<u>fine sand</u>	☒	
	<u>142</u>	<u>146</u>	<u>white clay</u>		☒
	<u>146</u>	<u>148</u>	<u>fine silty sand</u>		☒
	<u>148</u>	<u>151</u>	<u>clay</u>		☒
	<u>151</u>	<u>173</u>	<u>layers of sand & silty clay</u>		☒
	<u>173</u>	<u>198</u>	<u>fine sandy clay</u>	☒	
	<u>198</u>	<u>205</u>	<u>blue clay</u>		☒
	<u>205</u>	<u>209</u>	<u>brown clay</u>		☒
	<u>209</u>	<u>215</u>	<u>blue clay</u>		☒
	<u>215</u>	<u>218</u>	<u>blue sand - fine</u>	☒	

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APR 10 2006

WATER RESOURCES
WESTERN REGION

Completed Depth 218 (Measurable)
Date: Started 8/16/05 Completed 9/6/05

14. DRILLER'S CERTIFICATION

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

Company Name Robinson Well Drilling Firm No. 490

Principal Driller _____ Date _____

and Driller or Operator II Ralph Robinson Date 2/28/06

Operator I _____ Date _____

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

IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

861533 8

1. WELL TAG NO. D 0060046Drilling Permit No. 912903-861533

Water right or injection well # _____

2. OWNER: Bud Painter

Name _____

Address 7586 Bennett RdCity Nampa State Id Zip 83686

3. WELL LOCATION:

Twp. 2 North ☒ or South ☐ Rge. 2 East ☐ or West ☒Sec. 26 1/4 SE 1/4 SW 1/4Gov't Lot _____ County CanyonLat. 43 ° 28.462 (Deg and Decimal minutes)Long. 116 ° 32.712 (Deg and Decimal minutes)Address of Well Site 7586 Bennett RdCity Nampa

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

Lot. _____ Blk. _____ Sub. Name _____

4. USE:

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

5. TYPE OF WORK:

☐ New well ☐ Replacement well ☒ Modify existing well
☐ Abandonment ☐ Other install screen

6. DRILL METHOD:

☐ Air Rotary ☐ Mud Rotary ☒ Cable ☐ Other _____

7. SEALING PROCEDURES:

Seal material	From (ft)	To (ft)	Quantity (lbs or ft ³)	Placement method/procedure
<u>See original log</u>				

8. CASING/LINER:

Diameter (nominal)	From (ft)	To (ft)	Gauge/Schedule	Material	Casing	Liner	Threaded	Welded
<u>5"</u>	<u>163'</u>	<u>174'</u>	<u>188</u>	<u>steel</u>	☐	☒	☐	☒
<u>5"</u>	<u>179'</u>	<u>181'</u>	<u>188</u>	<u>steel</u>	☐	☒	☐	☒
					☐	☐	☐	☐
					☐	☐	☐	☐

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

9. PERFORATIONS/SCREENS:

Perforations ☐ Y ☐ N Method _____Manufactured screen ☒ Y ☐ N Type Cont. WireMethod of installation bail in

From (ft)	To (ft)	Slot size	Number/ft	Diameter (nominal)	Material	Gauge or Schedule
<u>174</u>	<u>179</u>	<u>.015</u>		<u>5"</u>	<u>304 stainless</u>	

Length of Headpipe 11' Length of Tailpipe 2'Packer ☒ Y ☐ N Type K

10. FILTER PACK:

Filter Material	From (ft)	To (ft)	Quantity (lbs or ft ³)	Placement method
<u>Natural</u>				

11. FLOWING ARTESIAN:

Flowing Artesian? ☐ Y ☒ N Artesian Pressure (PSIG) _____Describe control device remove seal

12. STATIC WATER LEVEL and WELL TESTS:

Depth first water encountered (ft) _____ Static water level (ft) 95'Water temp. (°F) 56 Bottom hole temp. (°F) 56Describe access port remove seal

Well test:

Drawdown (feet)	Discharge or yield (gpm)	Test duration (minutes)
<u>15'</u>	<u>15</u>	<u>60</u>

Test method:

Pump	Bailer	Air	Flowing artesian
☐	☒	☐	☐

Water quality test or comments: _____

13. LITHOLOGIC LOG and/or repairs or abandonment:

Bore Dia. (in)	From (ft)	To (ft)	Remarks, lithology or description of repairs or abandonment, water temp.	Water	
				Y	N
<u>6"</u>	<u>174</u>	<u>180</u>		☒	
<u>6"</u>	<u>180</u>	<u>181</u>	<u>Sandy Clay</u>	☒	
			<u>bail in 5' screen with</u>		
			<u>2' of tail pipe and 11' of</u>		
			<u>head pipe including packer</u>		
			<u>Filled a 4x5 K-packer</u>		
			<u>with gravel & welded one</u>		
			<u>end shut and pushed down</u>		
			<u>in tail pipe to plug</u>		
			<u>bottom of screen.</u>		

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AUG 01 2011

WATER RESOURCES
WESTERN REGIONCompleted Depth (Measurable): 180'Date Started: 7/14/11 Date Completed: 7/25/11

14. DRILLER'S CERTIFICATION:

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

Company Name Robinson Well Drilling Co. No. 490*Principal Driller Ralph Robinson Date 7/26/11

*Driller _____ Date _____

*Operator II Ralph Robinson Date 7/26/11

Operator I _____ Date _____

* Signature of Principal Driller and rig operator are required.

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

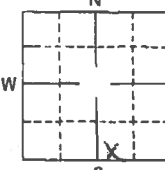
9

1. WELL OWNER Name <u>GEM STATE TRUCKING CO.</u> Address <u>BOX 671 Nampa, IDAHO</u> Owner's Permit No. _____	7. WATER LEVEL Static water level <u>95</u> feet below land surface. Flowing? ☐ Yes ☒ No G.P.M. flow _____ Artesian closed-in pressure _____ p.s.i. Controlled by: ☐ Valve ☐ Cap ☐ Plug Temperature <u>56</u> °F. Quality <u>GOOD</u>																																																																																																																																		
2. NATURE OF WORK ☒ New well ☐ Deepened ☐ Replacement ☐ Abandoned (describe method of abandoning) _____	8. WELL TEST DATA ☐ Pump ☐ Baller ☒ Air ☐ Other _____ <table border="1" style="width: 100%; border-collapse: collapse;"><tr><th>Discharge G.P.M.</th><th>Pumping Level</th><th>Hours Pumped</th></tr><tr><td style="text-align: center;">15</td><td style="text-align: center;">110</td><td style="text-align: center;">2</td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr></table> 103119	Discharge G.P.M.	Pumping Level	Hours Pumped	15	110	2																																																																																																																												
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WELL DRILLER'S REPORT

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

gm. 20

1. WELL OWNER Name <u>Rick Overlin</u> Address _____ Owner's Permit No. _____		7. WATER LEVEL Static water level <u>70'</u> feet below land surface. Flowing? ☐ Yes ☐ No G.P.M. flow _____ Artesian closed-in pressure _____ p.s.i. Controlled by: ☐ Valve ☐ Cap ☐ Plug Temperature _____ °F. Quality _____ Describe artesian or temperature zones below _____																																																																	
2. NATURE OF WORK ☒ New well ☐ Deepened ☐ Replacement ☐ Abandoned (describe abandonment procedures such as materials, plug depths, etc. in lithologic log)		8. WELL TEST DATA ☐ Pump ☐ Bailer ☐ Air ☐ Other _____ <table border="1"><thead><tr><th>Discharge G.P.M.</th><th>Pumping Level</th><th>Hours Pumped</th></tr></thead><tbody><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr></tbody></table>		Discharge G.P.M.	Pumping Level	Hours Pumped																																																													
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6. LOCATION OF WELL Sketch map location must agree with written location  Subdivision _____ Lot No. _____ Block No. _____ County <u>Canyon</u> S.W. 1/4 SE 1/4 Sec. 36, T. 2 N., R. 2 W.																																																																			
11. DRILLERS CERTIFICATION I/We certify that all minimum well construction standards were complied with at the time the rig was removed. Firm Name <u>Charles M. Davis</u> No. <u>101</u> Address <u>415 N. Little Lane</u> Date <u>6-11-87</u> Signed by (Firm Official) <u>Charles M. Davis</u> and (Operator) <u>Charles M. Davis</u>																																																																			

FORWARD WHITE COPY TO WATER RESOURCES

IDAHO DEPARTMENT OF WATER RESOURCES

WELL DRILLER'S REPORT

59444

Office Use Only		22
Inspected by _____		
Twp _____	Rge _____	Sec _____
1/4 _____	1/4 _____	1/4 _____
Lat: _____	Long: _____	_____

1. WELL TAG NO. D 63-99-W-0867000
 DRILLING PERMIT NO. D0012346
 Other IDWR No. _____

2. OWNER:

Name Roger Reynolds
 Address 9682 Rifleman
 City Boise State Id. Zip 83704

3. LOCATION OF WELL by legal description:

Sketch map location must agree with written location.

	Twp. <u>2</u>	North ☒ or South ☐
	Rge. <u>2</u>	East ☒ or West ☐
	Sec. <u>26</u>	1/4 <u>SW</u> 1/4 <u>SE</u>
	Gov't Lot _____	County <u>Canyon</u>
	Lat: _____	Long: _____

Address of Well Site Bennett & Track Rd.
 City Nampa

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

Lt. 13 Blk. _____ Sub. Name Aram Est.

4. USE:

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

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

☒ New Well ☐ Modify ☐ Abandonment ☐ Other _____

6. DRILL METHOD

☒ Rotary ☐ Cable ☐ Mud Rotary ☐ Other _____

7. SEALING PROCEDURES

SEAL/FILTER PACK		AMOUNT		METHOD
Material	From	To	Sacks or Pounds	
Bentonite	0	18	8	Overbore

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

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

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
6"	2	261'	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:

89 ft. below ground Artesian pressure _____ lb.

Depth flow encountered _____ ft. Describe access port or

control devices: Sanitary Well Cap

11. WELL TESTS:

☐ Pump ☐ Bailor ☒ Air ☐ Flowing Artesian

Yield gal./min.	Drawdown	Pumping Level	Time
150		250	6

Water Temp. 61 Bottom hole temp. _____

Water Quality test or comments: 14-Grains

Depth first Water Encounter _____

12. LITHOLOGIC LOG: (Describe repairs or abandonment)

Bore Dia.	From	To	Remarks: Lithology, Water Quality & Temperature	Water	Y	N
10"	0	5	Dirt	No		
10"	5	18	Lava Rock	No		
8"	18	31	Lava Rock	No		
6"	31	63	Cemented Gravel	No		
6"	63	172	Sandy Clay	No		
6"	172	250	Brn Clay/strips sand/water	Yes		
6"	250	261	Sandstone	No		
6"	261	262	Sand & 150 gpm	Yes		

RECEIVED

NOV 17 1999

Department of Water Resources

RECEIVED

NOV 10 1999

WATER RESOURCES
WESTERN REGION

Completed 261' Depth (Measurable)
 Date: Started 10/13/99 Completed 10/18/99

13. DRILLER'S CERTIFICATION

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

Company Name Can-Ada Well & Pump Firm No. 304

Firm Official Earl Skinner Date 10/28/99

and Driller or Operator Earl Skinner Date 10/28/99

(Sign once if Firm Official & Operator)

IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

733760

Office Use Only		24
Inspected by		
Twp	Rge	Sec
1/4	1/4	1/4
Lat:	:	Long:
:	:	:

1. WELL TAG NO. **DD0012350**
 DRILLING PERMIT NO. _____
 Other IDWR No. _____

2. OWNER:
 Name **Bill Whiting**
 Address **5511 Diamond Ridge Wy.**
 City **Nampa** State **Id.** Zip **83686**

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

	Twp. 2	North ☒ or South ☐
	Rge. 2	East ☐ or West ☒
	Sec. 26	1/4 SW 1/4 SE 1/4
	Gov't Lot _____	County Canyon
Lat: _____		Long: _____
Address of Well Site Bennett & Track Rd.		
City Nampa		

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

Lt. **15A** Blk. _____ Sub. Name **Aram Est.**

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

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

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

7. SEALING PROCEDURES

SEAL/FILTER PACK			AMOUNT Sacks or Pounds	METHOD
Material	From	To		
Bentonite	0	16	7	Overbore

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

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
6"	1	270'	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:

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

11. WELL TESTS:

☐ Pump	☐ Bailor	☒ Ir	☐ Flowing Artesian
Yield gal./min	Drawdown	Pumping Level	Time

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

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

Bore Dia.	From	To	Remarks: Lithology, Water Quality & Temperature	Y	N
10"	0	5	Dirt	No	No
10"	5	18	Black Lava Rock	No	No
8"	18	45	Black Lava Rock	No	No
6"	45	80	Sandy Clay	No	No
6"	80	129	Cemented Gravel & Boulders	No	No
6"	129	138	Sticky Brown Clay	No	No
6"	138	140	Sand & Water 12 gpm	Yes	Yes
6"	140	265	Brn clay/str sand/little water	Yes	Yes
6"	265	270	Sticky Brown Clay	No	No
6"	270	271	Sand & Water 150 gpm	Yes	Yes

RECEIVED

MAR 7 2000

Department of Water Resources

RECEIVED

JAN 12 2000

WATER RESOURCES
WESTERN REGION

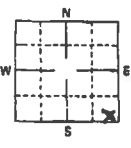
Completed Depth **270'** (Measurable)
 Date: Started **11/4/99** Completed **11/9/99**

13. DRILLER'S CERTIFICATION

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

Company Name **Can-Ada Well & Pump** Firm No. **304**
 Firm Official **Earl Skinner** Date **1/7/00**
 and **Earl Skinner** Date **1/7/00**
 Driller or Operator **Earl Skinner** Date _____
 (Sign once if Firm Official & Operator)

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORTUSE TYPEWRITER OR
BALLPOINT PENState law requires that this report be filed with the Director, Department of Water Resources
within 30 days after the completion or abandonment of the well.

1. WELL OWNER Name <u>Jonathan W Cline</u> Address <u>7112 Bennet Rd Nampa Id 83686</u> Drilling Permit No. <u>63-92-C-0911-001</u> Water Right Permit No. _____	7. WATER LEVEL Static water level <u>81</u> feet below land surface. Flowing? ☐ Yes ☒ No G.P.M. flow _____ Artesian closed-in pressure _____ p.s.i. Controlled by: ☐ Valve ☐ Cap ☐ Plug Temperature <u>56</u> °F. Quality <u>GOOD</u> Describe artesian or temperature zones below.																																																																
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6. LOCATION OF WELL Sketch map location must agree with written location.  Subdivision Name _____ Lot No. _____ Block No. _____ County <u>Canyon</u> SE 1/4 SE 1/4 Sec. <u>26</u> , T. <u>2</u> N ☒ S ☐ R. <u>2</u> E ☐ W ☒																																																																	

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

IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

Office Use Only
Inspected by _____
Twp _____ Rge _____ Sec **28**
1/4 1/4 1/4
Lat: _____ Long: _____

1. DRILLING PERMIT NO. -D-0025-75

Other IDWR No. _____

2. OWNER:

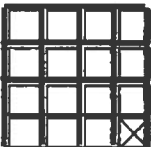
Name Bob & Peg Mixdorf

Address 7142 Southside

City Nampa State ID Zip 83686

3. LOCATION OF WELL by legal description:

Sketch map location must agree with written location
N

W  Twp. 2 North ☒ or South ☐
Rge. 2 East ☐ or West ☒
Sec. 26 1/4 10 acres SE 1/4 40 acres SE 1/4 160 acres

S Gov't lot _____ County Canyon

Lat: _____ Long: _____

Address of Well Site 7142 Southside

City Nampa

(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	
Cuttings	0	4'		Overbore
Bentonite	4'	38'	19S	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'	38'	.250	Steel	☒	☐	☒	☐
4.5"	33'	163'	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
143'	163'	1/4"	100	4.5"	PVC	☐	☒
		X4"				☐	☐

10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

80ft. 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
100		160'	1 Hr.

Water Temp. _____ Bottom hole temp. _____

Water Quality test or comments: 1 Nitrate 15 Hardness

1.5 Iron Depth first Water Encountered 95'

12. LITHOLOGIC LOG: (Describe repairs or abandonment)

Water				Remarks: Lithology, Water Quality & Temp.		Y	N
Bore Dia	From	To					
10"	0	1'		Brown Top Soil			
10"	1'	4'		Brown Clay			
10"	4'	17'		Solid Black Lava			
10"	17'	28'		Brown Clay			
10"	28'	38'		Black Lava			
8"	38'	95'		Black Lava			
8"	95'	121'		Broken Black Lava			
8"	121'	140'		Black Lava			
8"	140'	167'		Broken Black Lava			

RECEIVED

JUL 01 2002

WATER RESOURCES
WESTERN REGION

Completed Depth: 165' (Measurable)

Date: Started 06/10/02 Completed 06/13/02

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 Down Right Drilling & Pump

Firm No. 637

Firm Official [Signature]

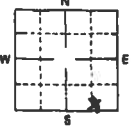
Date 6/17/02

Supervisor or Operator _____
(Sign once if Firm Official & Operator)

Date _____

Date: 6/14/2002 Time: 9:11 AM

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT29
USE TYPEWRITER OR
BALLPOINT PENState law requires that this report be filed with the Director, Department of Water Resources
within 30 days after the completion or abandonment of the well.

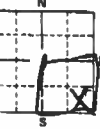
1. WELL OWNER Name <u>ANITA OVERLIN</u> Address <u>7200 BENNETT RD. MANAHO 10 83646</u> Drilling Permit No. <u>63-92-W-0948-001</u> Water Right Permit No. _____	7. WATER LEVEL Static water level <u>90</u> feet below land surface. Flowing? ☐ Yes ☒ No G.P.M. flow _____ Artesian closed-in pressure _____ p.s.i. Controlled by: ☐ Valve ☐ Cap ☐ Plug Temperature <u>56</u> °F. Quality <u>GOOD</u> Describe artesian or temperature zones below.																																														
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STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORTUSE TYPEWRITER OR
BALLPOINT PEN

32

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

1. WELL OWNER Name <u>Robert J. Smith</u> Address <u>7152 Bennett R, Nampa, ID 83686</u> Owner's Permit No. <u>63-91-W 466</u>	7. WATER LEVEL Static water level <u>76</u> feet below land surface. Flowing? ☐ Yes ☒ No G.P.M. flow _____ Artesian closed-in pressure _____ p.s.i. Controlled by: ☐ Valve ☐ Cap ☐ Plug Temperature _____ °F. Quality _____ <i>Describe artesian or temperature zones below</i>																																																																						
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10. Work started <u>12-5-91</u> finished <u>1-13-92</u>	11. DRILLERS CERTIFICATION I/We certify that all minimum well construction standards were complied with at the time the rig was removed. Firm Name <u>Dale Well Drilling</u> Firm No. <u>399</u> Address <u>Nampa, Idaho</u> Date <u>1-13-92</u> Signed by (Firm Official) <u>[Signature]</u> and _____ (Operator) <u>Same</u>																																																																						

1. WELL OWNER Name <u>TAYLOR, J. P.</u> Address <u>960 W. 4TH SPACE 6</u> <u>KUMA, ID 83634 C</u> Drilling Permit No. <u>63-91-X-056-000</u> Water Right Permit No. _____	7. WATER LEVEL Static water level <u>50</u> feet below land surface. Flowing? ☐ Yes ☒ No G.P.M. flow _____ Artesian closed-in pressure _____ p.s.i. Controlled by: ☐ Valve ☐ Cap ☐ Plug Temperature _____ °F. Quality _____ Describe artesian or temperature zones below.																																																																												
2. NATURE OF WORK ☒ 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.)	8. WELL TEST DATA ☐ Pump ☐ Bailer ☒ Air ☐ Other _____																																																																												
3. PROPOSED USE ☒ Domestic ☐ Irrigation ☐ Monitor ☐ Industrial ☐ Stock ☐ Waste Disposal or Injection ☐ Other _____ (specify type)	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">Discharge G.P.M.</th> <th>Pumping Level</th> <th>Hours Pumped</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;"><u>50</u></td> <td style="text-align: center;"></td> <td style="text-align: center;"><u>100</u></td> <td style="text-align: center;"><u>2</u></td> </tr> <tr> <td style="height: 20px;"></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Discharge G.P.M.		Pumping Level	Hours Pumped	<u>50</u>		<u>100</u>	<u>2</u>																																																																				
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4. METHOD DRILLED ☒ Rotary ☐ Air ☐ Auger ☐ Reverse rotary ☐ Cable ☐ Mud ☐ Other _____ (backhoe, hydraulic, etc.)	9. LITHOLOGIC LOG <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2">Bore Diam.</th> <th colspan="2">Depth</th> <th rowspan="2">Material</th> <th colspan="2">Water</th> </tr> <tr> <th>From</th> <th>To</th> <th>Yes</th> <th>No</th> </tr> </thead> <tbody> <tr> <td>9"</td> <td>0</td> <td>2</td> <td>TOP SOIL</td> <td></td> <td></td> </tr> <tr> <td>9"</td> <td>2</td> <td>5</td> <td>HARD PAN</td> <td></td> <td></td> </tr> <tr> <td>9"</td> <td>5</td> <td>15</td> <td>SOLID BLACK LAVA</td> <td></td> <td></td> </tr> <tr> <td>9"</td> <td>15</td> <td>30</td> <td>CLAY & SAND</td> <td></td> <td></td> </tr> <tr> <td>6"</td> <td>30</td> <td>50</td> <td>SOLID BLACK LAVA</td> <td></td> <td></td> </tr> <tr> <td>6"</td> <td>50</td> <td>52</td> <td>LAVA CRACK</td> <td></td> <td></td> </tr> <tr> <td>6"</td> <td>52</td> <td>80</td> <td>SOLID LAVA</td> <td></td> <td></td> </tr> <tr> <td>6"</td> <td>80</td> <td>81</td> <td>SOFT ROCK</td> <td></td> <td></td> </tr> <tr> <td>6"</td> <td>81</td> <td>95</td> <td>SOLID LAVA</td> <td></td> <td></td> </tr> <tr> <td>6"</td> <td>95</td> <td>100</td> <td>CRACKED ROCK</td> <td></td> <td></td> </tr> <tr> <td>6"</td> <td>100</td> <td>105</td> <td>SOLID LAVA</td> <td></td> <td></td> </tr> </tbody> </table>	Bore Diam.	Depth		Material	Water		From	To	Yes	No	9"	0	2	TOP SOIL			9"	2	5	HARD PAN			9"	5	15	SOLID BLACK LAVA			9"	15	30	CLAY & SAND			6"	30	50	SOLID BLACK LAVA			6"	50	52	LAVA CRACK			6"	52	80	SOLID LAVA			6"	80	81	SOFT ROCK			6"	81	95	SOLID LAVA			6"	95	100	CRACKED ROCK			6"	100	105	SOLID LAVA		
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5. WELL CONSTRUCTION Casing schedule: ☒ Steel ☐ Concrete ☐ Other _____ Thickness Diameter From To <u>250</u> inches <u>6</u> inches + <u>1</u> foot <u>30</u> 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 _____ 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 <u>20</u> Material used in seal: ☐ Cement grout ☒ Bentonite ☐ Puddling clay _____ Sealing procedure used: ☐ Slurry pit ☐ Temp. surface casing ☒ Overbore to seal depth Method of joining casing: ☐ Threaded ☒ Welded ☐ Solvent Weld ☐ Cemented between strata Describe access port <u>SANITARY WELL CAP</u>	10. Work started <u>5/6/92</u> finished <u>5/6/92</u>																																																																												
6. LOCATION OF WELL Sketch map location must agree with written location.  Subdivision Name <u>ARAM EST.</u> Lot No. <u>4</u> Block No. <u>1</u> County <u>CANYON</u> Address of Well Site <u>SOUTHSIDE BLVD.</u> (give at least name of road) T. <u>2</u> X N ☒ S ☐ R. <u>2</u> E ☐ W ☒	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 <u>Can-Ada Well Drilling Co.</u> Phone No. <u>304</u> Address <u>4250 Murphy Road Date</u> <u>Kuma, Idaho</u> Signed by <u>Earl Skinner</u> and _____ (Operator) <u>[Signature]</u> <i>(If different than the Drilling Supervisor)</i>																																																																												

USE TYPEWRITER OR
BALL POINT PEN

State of Idaho
Department of Reclamation

WELL DRILLER'S REPORT

RECEIVED

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

JUL 6 1970

35

1. WELL OWNER

Name Cecil McNaught
WE Rt 3ampa Idaho
Address
Owner's Permit No.

7. WATER LEVEL

Department of Water Administration

Static water level 10 feet below land surface
Flowing? ☐ Yes ☒ No G.P.M. flow
Temperature ° F. Quality
Artesian closed-in pressure p.s.i.
Controlled by ☐ Valve ☐ Cap ☐ Plug

2. NATURE OF WORK

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

8. WELL TEST DATA

☒ Pump ☐ Bailor ☐ Other
Discharge G.P.M. 20 Draw Down 2 ft Hours Pumped 2 hrs

3. PROPOSED USE

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

9. LITHOLOGIC LOG

031036

Hole Diam.	Depth		Material	Water	
	From	To		Yes	No
6	0	18	soil		X
	18	35	sand	X	

4. METHOD DRILLED

☒ Cable ☐ Rotary ☐ Dug ☐ Other

5. WELL CONSTRUCTION

Diameter of hole 6 inches Total depth 35 feet
Casing schedule: ☒ Steel ☐ Concrete
Thickness Diameter From To
Din 2.50 inches 6 inches 14 feet 21 feet
Din 2.37 inches 4 inches 13 1/2 feet 25 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 3/16 inches by 3 inches
No. Number From To
No. 100 perforations 15 feet 35 feet
No. perforations feet feet
No. perforations feet feet

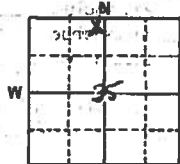
Well screen installed? ☐ Yes ☒ No
Manufacturer's name
Type Model No.
Diameter Slot size Set from 14 feet to 21 feet
Diameter Slot size Set from 13 1/2 feet to 25 feet

Gravel packed? ☒ Yes ☐ No Size of gravel 3/8
Placed from 15 feet to 35 feet

Surface seal? ☒ Yes ☐ No To what depth 18 feet
Material used in seal ☐ Cement grout ☒ Puddling clay

6. LOCATION OF WELL

Sketch map location must agree with written location.



County Canyon
NE 1/4 NW 1/4 Sec. 35, T. 2, R. 2, E. W.

10.

Work started April 13-70 finished April 18-70

11. DRILLER'S CERTIFICATION

This well was drilled under my supervision and this report is true to the best of my knowledge.

Jesse Blotz Well Drilling 40#
Driller's or Firm's Name Number
Rt 3ampa Idaho
Address
Jesse Blotz
Signed By Date May 15-70

IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

Office Use Only
Well ID No. 409344
Inspected by _____
Twp _____ Rge _____ Sec 36
1/4 _____ 1/4 _____ 1/4 _____
Lat: _____ : _____ : _____ Long: _____ : _____ : _____

1. WELL TAG NO. D 0042698
DRILLING PERMIT NO. _____
Water Right or Injection Well No. _____

2. OWNER:
Name William Maupin
Address 6699 Track Road
City Nampa State ID Zip 83686

3. LOCATION OF WELL by legal description:

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

Twp. 2 North ☒ or South ☐
Rge. 2 East ☐ or West ☒
Sec. 35 SE 1/4 NW 1/4
Gov't Lot _____ County Canyon 160 acres
Lat: _____ : _____ : _____ Long: _____ : _____ : _____
Address of Well Site 6699 Track Road
City Nampa
(Give at least name of road + Distance to Road or Landmark)
Lt. _____ Blk. _____ Sub. Name _____

4. USE:

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

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

☒ New Well ☐ Modify ☐ Abandonment ☐ Other _____

6. DRILL METHOD:

☒ Air Rotary ☐ Cable ☐ Mud Rotary ☐ Other _____

7. SEALING PROCEDURES

Seal Material	From	To	Weight / Volume	Seal Placement Method
<u>3/8 Bent</u>	<u>0</u>	<u>75</u>	<u>600lb</u>	<u>Overbore</u>

Was drive shoe used? ☒ Y ☐ N Shoe Depth(s) 182

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

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
<u>6</u>	<u>+2</u>	<u>182</u>	<u>1/4</u>	<u>Steel</u>	☒	☐	☒	☐

Length of Headpipe 7' Length of Tailpipe 0

Packer ☒ Y ☐ N Type Figure K

9. PERFORATIONS/SCREENS PACKER TYPE

Perforation Method _____

Screen Type & Method of Installation Washdown Stainless Wire

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
<u>188</u>	<u>193</u>	<u>14</u>		<u>5</u>	<u>SS</u>	☒	☐

10. FILTER PACK

Filter Material	From	To	Weight / Volume	Placement Method

11. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

95 ft. below ground Artesian pressure _____ lb.

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

Sanitary Well Cap

12. WELL TESTS:

☐ Pump ☐ Bailor ☒ Air ☐ Flowing Artesian

Yield gal./min.	Drawdown	Pumping Level	Time
<u>30</u>	<u>N/A</u>	<u>140</u>	<u>10 Min</u>
<u>40</u>	<u>N/A</u>	<u>160</u>	<u>15 Min</u>

Water Temp. 59° Bottom hole temp. N/A

Water Quality test or comments: Clear

Depth first Water Encounter 130

13. LITHOLOGIC LOG: (Describe repairs or abandonment)

Bore Dia.	From	To	Remarks: Lithology, Water Quality & Temperature	Y	N
<u>10</u>	<u>0</u>	<u>3</u>	<u>Soil</u>		☒
<u>10</u>	<u>3</u>	<u>5</u>	<u>Hard Pan</u>		☒
<u>10</u>	<u>5</u>	<u>14</u>	<u>Brn. Clay</u>		☒
<u>10</u>	<u>14</u>	<u>18</u>	<u>Broken Lava</u>		☒
<u>8</u>	<u>18</u>	<u>42</u>	<u>Solid Lava</u>		☒
<u>8</u>	<u>42</u>	<u>73</u>	<u>Brn Clay + Broken Lava</u>		☒
<u>8</u>	<u>73</u>	<u>75</u>	<u>Gravel</u>		☒
<u>6</u>	<u>75</u>	<u>92</u>	<u>Yellow Sandy Clay</u>		☒
<u>6</u>	<u>92</u>	<u>98</u>	<u>Brn Clay</u>		☒
<u>6</u>	<u>98</u>	<u>130</u>	<u>Hard Brn Clay</u>		☒
<u>6</u>	<u>130</u>	<u>145</u>	<u>Clay Thin Sand Layers</u>	☒	
<u>6</u>	<u>145</u>	<u>160</u>	<u>Brn Clay</u>		☒
<u>6</u>	<u>160</u>	<u>165</u>	<u>Sandy Clay</u>		☒
<u>6</u>	<u>165</u>	<u>175</u>	<u>Clay Thin Hard Layers</u>		☒
<u>6</u>	<u>175</u>	<u>185</u>	<u>Coarse Red Sandy Clay</u>	☒	
<u>6</u>	<u>185</u>	<u>192</u>	<u>Med Sand Thin Clay Strips</u>	☒	
<u>6</u>	<u>193</u>		<u>Blue Clay</u>		

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MAY 16 2006

WATER RESOURCES
WESTERN REGION

Completed Depth 193 (Measurable)
Date: Started 3/29/06 Completed 4/4/06

14. DRILLER'S CERTIFICATION

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

Company Name Domestic Pump & Drill Firm No. 483

Principal Driller [Signature] Date 5/9/06

and Driller or Operator II _____ Date _____

Operator I _____ Date _____

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

603

Form 238-7
6/02

IDAHO DEPARTMENT OF WATER RESOURCES

WELL DRILLER'S REPORT

37

R39771

Location Corrected by IDWR To:

T02N R02W Sec. 35 NWSNW

By: mciscell 2012-05-04

1. WELL TAG NO D 0046456
 DRILLING PERMIT NO _____
 Water Right or Injection Well No. 63-W-214-001

2. OWNER:
 Name William or Teresa Maupin
 Address 6699 Track Road
 City Nampa State ID Zip 83686

3. LOCATION OF WELL by legal description:

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

Twp 2 North ☒ or South ☐
 Rge 2 East ☐ or West ☒
 Sec 35 1/4 NE 1/4 NW 1/4
 Gov't Lot _____
 County Canyon 10 acres
 Lat: _____ Long: _____
 Address of Well Site 6699 Track Road
 City Nampa

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

Lt _____ Blk _____ Sub Name _____

4. USE:

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

5. TYPE OF WORK check all that apply

(Replacement etc.)

☒ New Well ☐ Modify ☐ Abandonment ☐ Other _____

6. DRILL METHOD:

☒ Air Rotary ☐ Cable ☐ Mud Rotary ☐ Other _____

7. SEALING PROCEDURES

Seal Material	From	To	Weight / Volume	Seal Placement Method
<u>3/8 Bent</u>	<u>0</u>	<u>18</u>	<u>450lb</u>	<u>Overbore</u>

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

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	We'ded	Threaded
<u>6</u>	<u>+2</u>	<u>18</u>	<u>1/4</u>	<u>Steel</u>	☒	☐	☒	☐

Length of Headpipe 0 Length of Tailpipe 0Packer ☐ Y ☒ N Type _____

9. PERFORATIONS/SCREENS PACKER TYPE

Perforation Method NoneScreen Type & Method of Installation None

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

10. FILTER PACK

Filter Material	From	To	Weight / Volume	Placement Method

11. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

ft below ground _____ Artesian pressure _____ lb

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

Sanitary Well Cap

12. WELL TESTS:

☐ Pump ☐ Bailor ☐ Air ☐ Flowing Artesian

Yield gal/min.	Drawdown	Pumping Level	Time
<u>Well Dry No Static</u>			

Water Temp None Bottom hole temp NAWater Quality test or comments: NoneDepth first Water Encounter None

13. LITHOLOGIC LOG: (Describe repairs or abandonment)

Water

Bore Dia.	From	To	Remarks: Lithology Water Quality & Temperature	Y	N
10	0	5	Soil		X
10	5	14	Brn Clay		X
10	14	18	Solid Lava		X
6	18	37	Solid Lava		X
6	37	55	Red Cinder		X
6	55	58	Brn Clay		X
6	58	69	Brn Clay		X
6	69	74	Broken Lava		X
6	74	76	Brn Clay		X
6	76	77	Gravel		X
6	77	102	Sandy Clay		X
6	102	105	Sandy Gravel		X
6	105	132	Sandy Clay		X

Caved in to 104
injected 1400 Gallons
and Well kept Taking

RECEIVED

MAY 16 2006

WATER RESOURCES
WESTERN REGIONCompleted Depth 104 (Measurable)Date: Started 4/24/06 Completed 4/25/06

14. DRILLER'S CERTIFICATION

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

Company Name Domestic Pump & Drill Firm No 483Principal Driller SKO Damore Date 5/9/06

Driller or Operator II _____ Date _____

Operator I _____ Date _____

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

FORWARD WHITE COPY TO WATER RESOURCES

RECEIVED
DEC 22 1993

1. DRILLING PERMIT NO. 63-93-4-1182-000
Other IDWR No. _____

2. OWNER:
Name William Maupin
Address 915 Cove Arm
City Nampa State ID Zip 83651

3. LOCATION OF WELL by legal description:

Sketch map location must agree with written location.



T. 2 North ☒ or South ☐
 R. 2 East ☐ or West ☒
 Sec. 35 NE $\frac{1}{4}$ SE $\frac{1}{4}$ NW $\frac{1}{4}$
 Gov't Lot _____ County Canyon

Address of Well Site 6655 Track Rd
Nampa Id
(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 Bags	
Dry Grain Bent	0	18	4	Overbare

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

8. CASING/LINER:

Diameter	From	To	Gauge	Casting	Liner	Steel	Plastic	Welded	Threaded
6	12	18	250			☒	☐	☐	☐
						☐	☐	☐	☐
						☐	☐	☐	☐
						☐	☐	☐	☐

Final location of shoes 18'

Top Packer or Headpipe _____ Bottom Tailpipe _____

9. PERFORATIONS/SCREENS *Done*

☐ Perforations Method _____

☐ Screens Type _____ Material _____

From	To	Slot Size	Number	Diameter	Tel./Pipe Size	Casting	Linear
						☐	☐
						☐	☐
						☐	☐
						☐	☐

10. WELL TESTS:

☐ Pump ☐ Bailer ☒ Air ☐ Flowing Artesian

Yield gal./min.	Drawdown	Pumping Depth	Time
25	N/A	100	45 min

Temperature of water 59 Was a water analysis done? Yes ☐ No ☒

By whom? _____

Water Quality (odor, etc.) Clear

Bottom Hole Temperature 59

11. STATIC WATER LEVEL:

80 ft. below surface Depth artesian flow found _____
Artesian pressure _____ lb. Describe access port Sanitary Seal Port

Describe Controlling Devices: _____

12. LITHOLOGIC LOG: (Describe repairs or abandonment)

[illegible]

13. DRILLER'S CERTIFICATION

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

Firm Name Domestic Pump & Drill Firm No. 483

Firm Official St. J. Donson Date 12/10/93

and
Supervisor or Operator Stinson Date 12/10/93

(Sign once if Firm Official & Operator)

IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

41

1. WELL TAG NO. D 0066127

Drilling Permit No 904797-870856

Water right or injection well # _____

2. OWNER

Name Williams, Derrick

Address 6938 J-S Circle

City Nampa State ID Zip 83686

3. WELL LOCATION:

Twp 2 North ☒ or South ☐ Rge 2 East ☐ or West ☒

Sec 35 NE 1/4 NE 1/4 NE 1/4
10 acres 40 acres 160 acres

Gov't Lot _____ County Canyon

Lat 43 ° 28.372 (Deg and Decimal minutes)

Long 116 ° 32.055 (Deg and Decimal minutes)

Address of Well Site 6938 J&S Circle

City Nampa

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

Lot _____ Blk _____ Sub Name _____

4. USE:

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

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

☒ New Well ☐ Replacement well ☐ Modify existing well
☐ Abandonment ☐ Other _____

6. DRILL METHOD:

☒ Air Rotary ☐ Mud Rotary ☐ Cable ☐ Other _____

7. SEALING PROCEDURES

Seal material	From (ft)	To (ft)	Quantity (lbs or ft³)	Placement method/procedure
Med Chips	0	52	3000 lb	Poured

8. CASING/LINER:

Diameter (nominal)	From (ft)	To (ft)	Gauge/Schedule	Material	Casing	Liner	Threaded	Welded
6"	+2	58	250	Steel	☒	☐	☐	☒

Was drive shoe used? ☐ Y ☒ N Shoe Depth(s) 6x8 Packer @ 58'

9. PERFORATIONS/SCREENS:

Perforations ☐ Y ☒ N Method _____

Manufactured screen ☐ Y ☒ N Type _____

Method of installation _____

From (ft)	To (ft)	Slot size	Number/ft	Diameter (nominal)	Material	Gauge or Schedule
-----------	---------	-----------	-----------	--------------------	----------	-------------------

Length of Headpipe _____ Length of Tailpipe _____

Packer ☐ Y ☒ N Type _____

10. FILTER PACK:

Filter Material	From (ft)	To (ft)	Quantity (lbs or ft³)	Placement method
-----------------	-----------	---------	-----------------------	------------------

11. FLOWING ARTESIAN:

Flowing Artesian? ☐ Y ☒ N Artesian Pressure (PSIG) _____

Describe control device _____

12. STATIC WATER LEVEL and WELL TESTS:

Depth first water encountered (ft) 73' Static water level (ft) 73'

Water temp (°F) 58 Bottom hole temp (°F) 58

Describe access port Sanitary Well Cap

Well test:

Test method:

Drawdown (feet)	Discharge or yield (gpm)	Test duration (minutes)	Pump	Bailer	Air	Flowing artesian
135	100	30 min	☐	☐	☒	☐

Water Quality test or comments: Good/No odor

13. LITHOLOGIC LOG and/or repairs or abandonment:

Bore Dia (in)	From (ft)	To (ft)	Remarks, lithology or description of repairs or abandonment, water temp	Water Y	N
14	0	2	Top Soil		X
14	2	4	Clay		X
10	4	6	Hard Pan		X
10	6	20	Lava Rock		X
10	20	40	Brown Clay		X
10	40	52	Lava Rock		X
8	52	73	Black Lava		X
8	73	153	Lava/Cracks	X	

RECEIVED

JAN 07 2014

WATER RESOURCES
WESTERN REGION

Completed Depth (Measurable) 153'

Date: Started 12/23/2013 Completed 1/2/2014

14. DRILLER'S CERTIFICATION

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

Company Name Can-Ada Well Drilling & Pump Co No 304

*Principal Driller Earl Skinner *Earl Skinner* Date 1/3/2014

*Driller _____ Date _____

*Operator II Brad Skinner *Brad Skinner* Date 1/3/2014

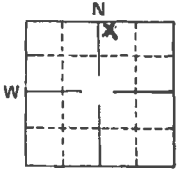
Operator I _____ Date _____

* Signature of Principal Driller and rig operator are required

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.

42

1. WELL OWNER Name <u>Tom Doherty</u> Address <u>Rt 3 Box 3593 - Nampa, Ida</u> Owner's Permit No. _____		7. WATER LEVEL Static water level <u>71</u> feet below land surface. Flowing? ☐ Yes ☒ No G.P.M. flow _____ Artesian closed-in pressure _____ p.s.i. Controlled by: ☐ Valve ☐ Cap ☐ Plug Temperature _____ °F. Quality _____																																																											
2. NATURE OF WORK ☒ New well ☐ Deepened ☐ Replacement ☐ Abandoned (describe method of abandoning) _____		8. WELL TEST DATA ☒ Pump ☐ Bailer ☐ Air ☐ Other _____ Discharge G.P.M. <u>2.5</u> Pumping Level <u>12.5</u> Hours Pumped <u>3</u>																																																											
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WELL DRILLER'S REPORT

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~~Department of Water Resources~~

[illegible]

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.

44

1. WELL OWNER Name <u>E. RANDALL JOHNSON</u> Address <u>720 FLETCHER DR./NAMPA, ID 83686</u> Drilling Permit No. <u>63-91-W-275</u> Water Right Permit No. _____		7. WATER LEVEL Static water level <u>86</u> feet below land surface. Flowing? ☐ Yes ☒ No G.P.M. flow _____ Artesian closed-in pressure _____ p.s.i. Controlled by: ☐ Valve ☐ Cap ☐ Plug Temperature _____ °F. Quality _____ <i>Describe artesian or temperature zones below</i>																																																																													
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11. DRILLERS CERTIFICATION I/We certify that all minimum well construction standards were complied with at the time the rig was removed. Firm Name <u>BILL DOTY DRILLING CO., INC.</u> Firm No. <u>42</u> Address <u>106 CALLOWAY CALDWELL, ID.</u> Date _____ Signed by (Firm Official) <u>[Signature]</u> and <u>[Signature]</u> (Operator)																																																																															

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

RW 4309 V

USE TYPEWRITER OR
BALLPOINT PEN

RECEIVED

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

MAY 13 1980 45

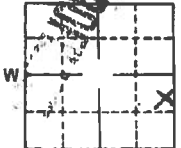
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WELL DRILLER'S REPORT

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

1. WELL OWNER Name <u>John Haight</u> Address <u>1427 Saddle Side Blvd</u> Owner's Permit No. <u>Nampa Ida</u>	7. WATER LEVEL Static water level <u>19' 4"</u> feet below land surface Flowing? ☐ Yes ☒ No G.P.M. flow _____ Temperature _____ ° F. Quality <u>FAIR</u> Artesian closed-in pressure _____ p.s.i. Controlled by ☐ Valve ☐ Cap ☐ Plug																																																																																																																																								
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STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORTUSE TYPEWRITER OR
BALLPOINT PENState 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.47
90

1. WELL OWNER Name <u>Lyle Borah</u> Address <u>Nampa</u> Owner's Permit No. _____		7. WATER LEVEL Static water level <u>50</u> feet below land surface. Flowing? ☐ Yes ☒ No G.P.M. flow _____ Artesian closed-in pressure _____ p.s.i. Controlled by: ☐ Valve ☐ Cap ☐ Plug Temperature _____ °F. Quality _____																																																																	
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IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

765084
Office Use Only
Inspected by _____
Twp _____ Rge _____ Sec _____
1/4 1/4 1/4
Lat: _____ Long: _____

49

1. WELL TAG NO. D0015084

DRILLING PERMIT NO. _____

Other IDWR No. _____

2. OWNER:

Name BILL PUGH CONSTRUCTION

Address 111 PAT LN

City CALDWELL State ID Zip 83605

3. LOCATION OF WELL by legal description:

Sketch map location must agree with written location.

N
W E S
Twp. 2 North ☒ or South ☐
Rge. 2 East ☐ or West ☒
Sec. 35 1/4 SW 1/4 SE 1/4
Gov't Lot _____ 10 acres 40 acres 160 acres
County CANYON
Lat: _____ Long: _____

Address of Well Site 7255 SARATOGA

NAMPA

City _____

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

Lt. 14A Blk. 2 Sub. Name ARAM ESTATES

4. USE:

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

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

☒ New Well ☐ Modify ☐ Abandonment ☐ Other _____

6. DRILL METHOD:

☒ Air Rotary ☐ Cable ☐ Mud Rotary ☐ Other _____

7. SEALING PROCEDURES:

Seal/Filter Pack			AMOUNT Sacks or Pounds	METHOD
Material	From	To		
BENTONITE	0	38	200#	OVERBORE
DRILLINGS	0	10		

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	0	38	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:

68 ft. below ground Artesian pressure _____ lb.

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

11. WELL TESTS:

☐ Pump ☐ Bailor ☒ Air ☐ Flowing Artesian

Yield gal./min.	Drawdown	Pumping Level	Time
30	10	100	1 HR

Water Temp. _____

Bottom hole temp. _____

Water Quality test or comments: _____

Depth first Water Encounter _____

12. LITHOLOGIC LOG: (Describe repairs or abandonment)

Bore Dia.	From	To	Remarks: Lithology, Water Quality & Temperature	Water
				Y N
8	0	5	5 TOP SOIL/ HARD PAN	
	5	7	7 LOOSE LAVA	
	7	25	25 SOLID LAVA	
	25	29	29 LAVA CREVICE	
	29	38	38 SOLID LAVA	
6	38	65	65 SOLID LAVA	
	65	120	120 LAVA WICREVICES	X

RECEIVED

AUG - 4 2000

Department of Water Resources

RECEIVED

JUL 13 2000

WATER RESOURCES
WESTERN REGION

Completed Depth 120 (Measurable)

Date: Started 6/14/2000 Completed 6/14/2000

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 DAVIS WELL & PUMP Firm No. 101

Firm Official Chuck Davis Date 6/27/00

and _____ Date 6/27/00

Driller or Operator _____ Date 6/27/00

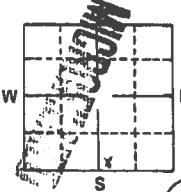
(Sign once if Firm Official & Operator)

FORWARD WHITE COPY TO 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.

50

1. WELL OWNER Name <u>Ken Clark</u> Address <u>Nampa</u> Owner's Permit No. _____	7. WATER LEVEL Static water level <u>70</u> feet below land surface. Flowing? ☐ Yes ☒ No G.P.M. flow _____ Artesian closed-in pressure _____ p.s.i. Controlled by: ☐ Valve ☐ Cap ☐ Plug Temperature _____ OF. Quality _____																																																																						
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5. WELL CONSTRUCTION Casing schedule: ☒ Steel ☐ Concrete ☐ Other _____ Thickness <u>250</u> inches Diameter <u>6</u> inches From <u>1 1/2</u> feet To <u>98 6"</u> 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 <u>20'</u> Material used in seal: ☐ Cement grout ☒ Pudding 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 <u>well seal</u>	11. DRILLERS CERTIFICATION 82 I/We certify that all minimum well construction standards were compplied with at the time the rig was removed. Firm Name <u>Charles Well Drilling</u> Firm No. <u>101</u> Address <u>415 N. Pitt Lane</u> Date <u>8/26/81</u> <u>Nampa</u> Signed by (Firm Official) <u>Charles McIlain</u> and (Operator) <u>Charles Davis</u>																																																																						
6. LOCATION OF WELL Sketch map location must agree with written location.  Subdivision Name <u>Nampa</u> Lot No. _____ Block No. _____ County <u>Canyon</u> <u>SW</u> 1/4 <u>SE</u> 1/4 Sec. <u>35</u> , T. <u>2</u> N., R. <u>2</u> W.	12. USE ADDITIONAL SHEETS IF NECESSARY — FORWARD THE WHITE COPY TO THE DEPARTMENT																																																																						

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

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

52

1. WELL OWNER

Name Chris Emmert
Address 7180 Bowmont Rd. Nampa ID 83686
Drilling Permit No. 63 93 W 0444-001
Water Right Permit No. _____

7. WATER LEVEL

Static water level 10.5 feet below land surface.
Flowing? ☐ Yes ☐ No G.P.M. flow _____
Artesian closed-in pressure _____ p.s.i.
Controlled by: ☐ Valve ☐ Cap ☐ Plug
Temperature 56 °F. Quality GOOD
Describe artesian or temperature zones below _____

2. NATURE OF WORK

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

8. WELL TEST DATA

NOT TESTED
☐ Pump ☐ Bailer ☐ Air ☐ Other _____

3. PROPOSED USE

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

9. LITHOLOGIC LOG

082885

Bore Diam.	Depth		Material	Water	
	From	To		Yes	No
6	135	160	SOLID BLACK BASALT		
6	160	170	BASALT - NO CUTTINGS	X	
6	170	175	SOLID BLACK BASALT		
6	175	185	BASALT AND CUTTINGS	X	

4. METHOD DRILLED

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

5. WELL CONSTRUCTION

Casing schedule: ☐ Steel ☐ Concrete ☐ Other _____

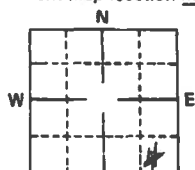
Thickness	Diameter	From	To
_____ inches	_____ inches	_____ feet	_____ feet
_____ inches	_____ inches	_____ feet	_____ feet
_____ inches	_____ inches	_____ feet	_____ feet
_____ inches	_____ inches	_____ feet	_____ feet

Was casing drive shoe used? ☐ Yes ☐ No
Was a packer or seal used? ☐ Yes ☐ No
Perforated? ☐ Yes ☐ No
How perforated? ☐ Factory ☐ Knife ☐ Torch ☐ 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
☐ Overbore to seal depth
Method of joining casing: ☐ Threaded ☐ Welded ☐ Solvent Weld
☐ Cemented between strata
Describe access port Plug in seal

6. LOCATION OF WELL

Sketch map location must agree with written location.



Subdivision Name _____

Lot No. _____ Block No. _____

County CanyonSE 1/4 SE 1/4 Sec. 35, T. 2 N. 2 S. 2 R. 2 W. 2

10.

AUG 09 1993

Work started MAY 24 93 finished MAY 25 93

11. DRILLERS CERTIFICATION

I/We certify that all minimum well construction standards were
complied with at the time the rig was removed.Firm Name Johnston Drilling Firm No. 92Address 3720 South Blvd. Nampa Date MAY 26 93Signed by (Firm Official) E D Johnstonand
(Operator) Don Johnston

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.

53

1. WELL OWNER Name <u>Chris A Emmert</u> Address <u>6198 S. Side Blvd. Nampa ID 83686</u> Owner's Permit No. <u>63-90-W-004</u> <u>63-11091</u>		7. WATER LEVEL Static water level <u>90</u> feet below land surface. Flowing? ☐ Yes ☒ No G.P.M. flow _____ Artesian closed-in pressure _____ p.s.i. Controlled by: ☐ Valve ☐ Cap ☐ Plug Temperature <u>56</u> °F. Quality <u>GOOD - HARD</u> Describe artesian or temperature zones below.																																																																																																					
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11. DRILLERS CERTIFICATION I/We certify that all minimum well construction standards were complied with at the time the rig was removed. Firm Name <u>Johnston Drilling</u> Firm No. <u>92</u> Address <u>3700 S. Side Blvd.</u> Date <u>MAR 1 90</u> Signed by (Firm Official) <u>E O Johnston</u> and (Operator) <u>E O Johnston</u>		11. Work started <u>JAN 17 90</u> finished <u>FEB 27 90</u>																																																																																																					

Received
 6-29-76
 NVR
 within 30
 54

[illegible]

25

Form 238-7
6/02

IDAHO DEPARTMENT OF WATER RESOURCES WELL DRILLER'S REPORT

843986
Office Use Only **55**
Well ID No. 414161
Inspected by _____
Twp _____ Rge _____ Sec _____
1/4 1/4 1/4
Lat: _____ Long: _____

1. WELL TAG NO. D 00047058
DRILLING PERMIT NO. _____
Water Right or Injection Well No. _____

2. OWNER:

Name TODD ZIMMERMAN CONST.
Address 7440 S. BLACKCAT RD.
City NAMPA State ID. Zip 83687

3. LOCATION OF WELL by legal description:

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

Twp. 2 North ☒ or South ☐
Rge. 2 East ☐ or West ☒
Sec. 36 NW 1/4 NW 1/4 1/4
Gov't Lot _____
County CANYON
Lat: _____ Long: _____
Address of Well Site 6845 RED FOREST LN.
City NAMPA
(Give at least name of road - Distance to Road or Landmark)
Lt. 4 Blk. 1 Sub. Name RED FOREST SUB.

4. USE:

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

5. TYPE OF WORK check all that apply

(Replacement etc.)

☒ New Well ☐ Modify ☐ Abandonment ☐ Other _____

6. DRILL METHOD:

☒ Air Rotary ☐ Cable ☐ Mud Rotary ☐ Other _____

7. SEALING PROCEDURES

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

Was drive shoe used? ☒ Y ☒ N Shoe Depth(s) N/A

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

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
<u>1 1/2"</u>	<u>2 1/2</u>	<u>58</u>	<u>250</u>	<u>STEEL</u>	☒	☐	☒	☐
<u>4 1/2"</u>	<u>46</u>	<u>86</u>	<u>40</u>	<u>PVC</u>	☐	☒	☐	☐

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

Packer ☐ Y ☒ N Type _____

9. PERFORATIONS/SCREENS PACKER TYPE

Perforation Method FACTORY

Screen Type & Method of Installation PVC SLOTTED SCREENS

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
<u>86</u>	<u>166</u>	<u>.020</u>	<u>40</u>	<u>4 1/2</u>	<u>PVC</u>	☐	☒

10. FILTER PACK

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

11. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

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

12. WELL TESTS:

☐ Pump ☐ Bailor ☒ Air ☐ Flowing Artesian

Yield gal./min.	Drawdown	Pumping Level	Time
<u>75</u>			<u>1 hr.</u>

Water Temp. _____ Bottom hole temp _____

Water Quality test or comments: _____

Depth first Water Encounter _____

13. LITHOLOGIC LOG: (Describe repairs or abandonment)

Bore Dia.	From	To	Remarks: Lithology, Water Quality & Temperature	Y	N
<u>10"</u>	<u>0</u>	<u>2</u>	<u>TOP SOIL</u>		
	<u>2</u>	<u>4</u>	<u>HARD PAN</u>		
	<u>4</u>	<u>15</u>	<u>BEN CLAY</u>		
	<u>15</u>	<u>18</u>	<u>LAVA ROCK</u>		
<u>8"</u>	<u>18</u>	<u>100</u>	<u>LAVA ROCK</u>		
<u>6"</u>	<u>100</u>	<u>110</u>	<u>RED CINDERS</u>		
	<u>110</u>	<u>143</u>	<u>LAVA ROCK</u>		
	<u>143</u>	<u>150</u>	<u>RED CINDERS</u>		
	<u>150</u>	<u>166</u>	<u>LAVA ROCK</u>		

RECEIVED

AUG 13 2006

Completed Depth 166' (Measurable)

Date: Started 8/8/06 Completed 8/9/06

14. DRILLER'S CERTIFICATION

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

Company Name D P W D Firm No. 332

Principal Driller Mark [Signature] Date 8/10/06

Driller or Operator II _____ Date _____

Operator I Ben McJernon Date 8/10/06

Principal Driller and Rig Operator Required.

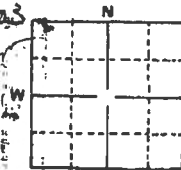
Operator I must have signature of Driller/Operator II.

WELL DRILLER'S REPORT

RECEIVED 56

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.

JUN 19 1966

1. WELL OWNER Name <u>GARY ANDERSON</u> Address <u>147 Mainfield</u> Owner's Permit No. _____		7. WATER LEVEL Department of Water Resources Static water level <u>62</u> feet below land surface Flowing? ☒ Yes ☐ No G.P.M. flow _____ Temperature _____ ° F. Quality _____ Artesian closed-in pressure _____ p.s.i. Controlled by ☐ Valve ☐ Cap ☐ Plug																																																																																															
2. NATURE OF WORK ☒ New well ☐ Deepened ☐ Replacement ☐ Abandoned (describe method of abandoning) _____		8. WELL TEST DATA ☐ Pump ☐ Bailer ☐ Other <u>Rod Pump</u> Discharge G.P.M. <u>20</u> Draw Down _____ Hours Pumped <u>2</u>																																																																																															
3. PROPOSED USE ☒ Domestic ☐ Irrigation ☒ Test ☐ Other (specify type) _____ ☐ Municipal ☐ Industrial ☐ Stock ☐ Waste Disposal or Injection		9. LITHOLOGIC LOG <u>034035</u> <table border="1"><thead><tr><th rowspan="2">Hole Diam.</th><th colspan="2">Depth</th><th rowspan="2">Material</th><th colspan="2">Water</th></tr><tr><th>From</th><th>To</th><th>Yes</th><th>No</th></tr></thead><tbody><tr><td>8"</td><td>0</td><td>25'</td><td></td><td></td><td></td></tr><tr><td>6"</td><td>25'</td><td>85'</td><td></td><td></td><td></td></tr><tr><td></td><td>0</td><td>3</td><td>Topsoil</td><td></td><td></td></tr><tr><td></td><td>3</td><td>9</td><td>Sandy Tan Clay</td><td></td><td></td></tr><tr><td></td><td>9</td><td>15</td><td>BROKEN BASALT</td><td></td><td></td></tr><tr><td></td><td>15</td><td>28</td><td>FIRM BASALT</td><td></td><td></td></tr><tr><td></td><td>28</td><td>33</td><td>BROKEN BASALT</td><td></td><td></td></tr><tr><td></td><td>33</td><td>52</td><td>TAN CLAY</td><td></td><td></td></tr><tr><td></td><td>52</td><td>57</td><td>BROKEN BASALT</td><td></td><td></td></tr><tr><td></td><td>57</td><td>62</td><td>CLAY</td><td></td><td></td></tr><tr><td></td><td>62</td><td>66</td><td>BROKEN BASALT</td><td></td><td></td></tr><tr><td></td><td>66</td><td>76</td><td>BROKEN CINDER BASALT</td><td></td><td>X</td></tr><tr><td></td><td>76</td><td>80</td><td>BLACK CINDER</td><td></td><td></td></tr><tr><td></td><td>80</td><td>85</td><td>BROKEN BASALT CINDERS</td><td></td><td></td></tr></tbody></table>		Hole Diam.	Depth		Material	Water		From	To	Yes	No	8"	0	25'				6"	25'	85'					0	3	Topsoil				3	9	Sandy Tan Clay				9	15	BROKEN BASALT				15	28	FIRM BASALT				28	33	BROKEN BASALT				33	52	TAN CLAY				52	57	BROKEN BASALT				57	62	CLAY				62	66	BROKEN BASALT				66	76	BROKEN CINDER BASALT		X		76	80	BLACK CINDER				80	85	BROKEN BASALT CINDERS		
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		11. DRILLERS CERTIFICATION Firm Name <u>C.R. Broomfield</u> Firm No. <u>39</u> Address <u>147 Mainfield</u> Date <u>June 14</u> Signed by (Firm Official) <u>C.R. Broomfield</u> and <u>Jack Lemons</u> Operator																																																																																															

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. Department of Water Resources

FORWARD THE WHITE COPY TO THE DEPARTMENT

DEC 12 1958

Document ID: A7-1000000

1. WELL OWNER

Name Mary Anderson (Lynn Kelly)

Address 3446 E St 3 Range Id.

Owner's Permit No. 83651

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 85' feet

Casing schedule: ☒ Steel ☐ Concrete

Thickness	Diameter	From	To
<u>250</u> inches	<u>6</u> inches	+ <u>1</u> feet	<u>50</u> 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 _____ 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
☒ 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.

Subdivision Name L3

Lot No. _____ Block No. _____

County CANYON

NW ¼ Sec. 36, T. 2 N., R. 2 W.

7. WATER LEVEL 63

Static water level 63 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 80' ROD PUMP 2 1/2"

☒ Pump ☐ Bailor ☐ Other

Discharge G.P.M.	Draw Down	Hours Pumped
<u>20</u>		<u>1</u>

9. LITHOLOGIC LOG 033163

Hole Diam.	Depth From	To	Material	Water Yes	No
<u>6"</u>	<u>6</u>	<u>1</u>	<u>TOP SOIL</u>	<u>L</u>	
<u>6"</u>	<u>1</u>	<u>5</u>	<u>HARD PAN</u>	<u>L</u>	
<u>6"</u>	<u>5</u>	<u>25</u>	<u>LAVA</u>	<u>L</u>	
<u>6"</u>	<u>25</u>	<u>29</u>	<u>BROKEN LAVA</u>	<u>L</u>	
<u>6"</u>	<u>29</u>	<u>31</u>	<u>LAVA</u>	<u>L</u>	
<u>6"</u>	<u>31</u>	<u>50</u>	<u>BROWN MUD</u>	<u>L</u>	
<u>6"</u>	<u>50</u>	<u>70</u>	<u>LAVA</u>	<u>L</u>	
<u>6"</u>	<u>70</u>	<u>85</u>	<u>BROKEN LAVA</u>	<u>L</u>	
<u>6"</u>	<u>85</u>		<u>HARD LAVA</u>	<u>L</u>	

10. Work started 10/25, 1977 finished 11/11, 1977

11. DRILLERS CERTIFICATION

Firm Name MYRON E. PROWELL DRILLING Firm No. 324

Address 813 EAST 2ND STREET MERIDIAN, IDAHO 83642 Date 12/8/77

Signed by (Firm Official) Myron E. Prowell

and (Operator) Myron E. Prowell

IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

843378

Office Use Only
Well ID No. 413561
Inspected by _____
Twp _____ Rge _____ Sec _____
1/4 _____ 1/4 _____ 1/4 _____
Lat: _____ : _____ : _____ Long: _____ : _____ : _____

60

1. WELL TAG NO. D D00 47094
DRILLING PERMIT NO. _____
Water Right or Injection Well No. _____

2. OWNER:
Name Scott Beets
Address PO Box 495
City Nampa State Id Zip 83653

3. LOCATION OF WELL by legal description:
You must provide address or Lot, Blk, Sub. or Directions to well.
Twp. 2 North ☒ or South ☐
Rge. 2 East ☐ or West ☒
Sec. 36 1/4 NW 1/4 NW 1/4
Gov't Lot _____ County Canyon
Lat: _____ : _____ : _____ Long: _____ : _____ : _____
Address of Well Site 6925 Redforest Ln
City Nampa
(Give at least name of road + Distance to Road or Landmark)
Lt. 7 Blk. 1 Sub. Name Redforest

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

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

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

7. SEALING PROCEDURES

Seal Material	From	To	Weight / Volume	Seal Placement Method
<u>Bentonite Chips</u>	<u>0</u>	<u>56</u>	<u>1150#</u>	<u>Overbore</u>

Was drive shoe used? ☒ Y ☐ N Shoe Depth(s) 56'
Was drive shoe seal tested? ☐ Y ☒ N How? _____

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
<u>6"</u>	<u>+2</u>	<u>56</u>	<u>.250</u>	<u>Steel</u>	☒	☐	☒	☐
<u>45"</u>	<u>35</u>	<u>155</u>	<u>3/4"</u>	<u>PVC</u>	☐	☒	☐	☒

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

9. PERFORATIONS/SCREENS PACKER TYPE

Perforation Method Factory
Screen Type & Method of Installation PW Eagle / Set

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
<u>155</u>	<u>195</u>	<u>.020</u>		<u>4.5"</u>	<u>PVC</u>	☐	☐

10. FILTER PACK

Filter Material	From	To	Weight / Volume	Placement Method

11. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

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

12. WELL TESTS:

Yield gal./min.	Drawdown	Pumping Level	Time
<u>75</u>			<u>1 hr.</u>

Water Temp. 58° Bottom hole temp. _____
Water Quality test or comments: 5 Iron 7.5 PH
Grains 4 Depth first Water Encounter 68

13. LITHOLOGIC LOG: (Describe repairs or abandonment)

Bore Dia.	From	To	Remarks: Lithology, Water Quality & Temperature	Y	N
<u>10</u>	<u>0</u>	<u>2</u>	<u>Top Soil</u>		
<u>10</u>	<u>2</u>	<u>28</u>	<u>Broken Soil</u>		
<u>10</u>	<u>28</u>	<u>36</u>	<u>Red Clay & Cinder</u>		
<u>10</u>	<u>36</u>	<u>57</u>	<u>Broken Lava</u>		
<u>6</u>	<u>57</u>	<u>68</u>	<u>Lava</u>		
<u>6</u>	<u>68</u>	<u>195</u>	<u>lava (lost circulation)</u>	☒	
<u>6</u>	<u>195</u>	<u>200</u>	<u>sand</u>	☒	

RECEIVED

AUG 08 2006

WATER RESOURCES
WESTERN REGION

Completed Depth 195' (Measurable)
Date: Started 8-3-06 Completed 8-4-06

14. DRILLER'S CERTIFICATION

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

Company Name Adamson Pump & Drilling Firm No. 457
Principal Driller Steve Adamson Date 8-4-06
and Driller or Operator II David Gibbons Date 8-4-06
Operator I _____ Date 8-4-06

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

RECEIVED
APR 26 1993

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

**USE TYPEWRITER OR
BALLPOINT PEN**

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.

63

[illegible]

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

839166

64

FORWARD WHITE COPY TO WATER RESOURCES

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

JUL 22 1993

Department of Water Resources

1. WELL OWNER

Name John Ostyn
Address 6698 Lola Layne Nampa
Drilling Permit No. 63-93-W-706
Water Right Permit No. _____

7. WATER LEVEL

Static water level 98 feet below land surface.
Flowing? ☐ Yes ☒ No G.P.M. flow _____
Artesian closed-in pressure _____ p.s.i.
Controlled by: ☐ Valve ☐ Cap ☐ Plug
Temperature 60 °F. Quality Clear
Describe artesian or temperature zones below.

2. NATURE OF WORK

☒ 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.)

8. WELL TEST DATA

☒ Pump ☐ Bailor ☐ Air ☐ Other _____

Discharge G.P.M.	Pumping Level	Hours Pumped
<u>20</u>	<u>147</u>	<u>15</u>

3. PROPOSED USE

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

9. LITHOLOGIC LOG

082886

Bore Diam.	Depth		Material	Water	
	From	To		Yes	No
12	0	5	Soil		X
8	5	18	Sandy Clay		X
8	18	20	Broken Lava		X
8	20	22	Solid Lava		X
6	22	45	Solid Lava		X
6	45	63	Broken Lava		X
6	63	66	Red Cinder		X
6	66	72	Solid Lava		X
6	72	76	Open Void		X
6	76	180	Broken Lava	X	

Lost Circulation after
76' No Return

RECEIVED

JUL 22 1993

Department of Water Resources
Washington Regional Office

MISFILED

AUG 08 1993

4. METHOD DRILLED

☒ Rotary ☒ Air ☐ Auger ☐ Reverse rotary
☐ Cable ☐ Mud ☐ Other _____
(backhoe, hydraulic, etc.)

5. WELL CONSTRUCTION

Casing schedule: ☒ Steel ☐ Concrete ☐ Other _____
Thickness Diameter From To
250 inches 6 inches + 2 feet 23 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 23 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 Port on Sanitary Seal

10.

Work started 7/15/93 finished 7/16/93

6. LOCATION OF WELL

Sketch map location must agree with written location.

Subdivision Name _____

Lot No. _____ Block No. _____

County Canyon

NW ¼ NW ¼ Sec. 36, T. 2 S. R. 2 W. ☒

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 Domestic Pump & Drill Firm No. 483
12630 Orchard Nampa Date 7/19/93
Address _____

Signed by Drilling Supervisor [Signature]

and
(Operator) [Signature]
(If different than the Drilling Supervisor)

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

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.

66

[illegible]

APR 26 1993

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

**USE TYPEWRITER OR
BALLPOINT PEN**

WELL DRILLER'S REPORT

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67

[illegible]

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

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.

Department of Water Resources

Western Regional Office

1. WELL OWNER Name <u>PAT Patchin</u> Address <u>Rt 3 Nampa</u> Owner's Permit No. <u>Applied</u>		7. WATER LEVEL Static water level <u>71</u> feet below land surface Flowing? ☐ Yes ☐ No G.P.M. flow _____ Temperature _____ ° F. Quality _____ Artesian closed-in pressure _____ p.s.i. Controlled by ☐ Valve ☐ Cap ☐ Plug																																															
2. NATURE OF WORK ☒ New well ☐ Deepened ☐ Replacement ☐ Abandoned (describe method of abandoning)		8. WELL TEST DATA ☐ Pump ☐ Bailer ☐ Other Discharge G.P.M. Draw Down Hours Pumped <u>No Test</u>																																															
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5. WELL CONSTRUCTION Diameter of hole <u>8</u> inches Total depth <u>150</u> feet Casing schedule: ☐ Steel ☐ Concrete Thickness <u>1 1/4</u> inches Diameter <u>8</u> inches From <u>1 1/2</u> feet To <u>18 1/2</u> 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 _____ 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 <u>18 1/2</u> Material used in seal ☐ Cement grout ☐ Pudding clay ☒ Well cuttings Sealing procedure used ☒ Sherry pit ☐ Temporary surface casing ☐ Overbore to seal depth																																																	
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N																																																	
W				E																																													
		11. DRILLER'S CERTIFICATION Firm Name <u>Gayley Drilling</u> Firm No. <u>291</u> Address <u>2711 B Boy 192</u> Address <u>MT Home, Ida</u> Date <u>6-15-77</u> Signed by (Firm Official) <u>B. Gayley</u> and (Operator) <u>Rayd Gayley</u>																																															

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

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.

IAN 23 1992

70

[illegible]

Drillers' Reports 63-34080

WELL DRILLER'S REPORT

RECEIVED 1

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.

MAR 1974

1. WELL OWNER

Name

Address

Owner's Permit No.

7. WATER LEVEL

Department of Water Administration

Static water level 400 feet below land surfaceFlowing? ☐ Yes ☒ No G.P.M. flow _____

Temperature _____ ° F. Quality _____

Artesian closed-in pressure _____ p.s.i.

Controlled by ☐ Valve ☐ Cap ☐ Plug

2. NATURE OF WORK

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

8. WELL TEST DATA

☐ Pump ☐ Bailer ☒ Other

Discharge G.P.M. Draw Down Hours Pumped

20

75

4

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 750 feetCasing schedule: ☐ Steel ☐ Concrete

Thickness	Diameter	From	To
<u>450</u> inches	<u>6</u> inches	<u>1</u> feet	<u>325</u> feet
_____ inches	_____ inches	_____ feet	_____ feet
_____ inches	_____ inches	_____ feet	_____ feet
_____ inches	_____ inches	_____ feet	_____ feet
_____ inches	_____ inches	_____ feet	_____ feet

Was a packer or seal used? ☐ Yes ☒ NoPerforated? ☐ Yes ☒ NoHow perforated? ☐ Factory ☐ Knife ☐ Torch

Size of perforation _____ inches by _____ inches

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

Well screen installed? ☐ Yes ☒ No

Manufacturer's name _____

Type _____ Model No. _____

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

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

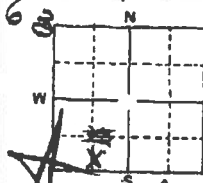
Gravel packed? ☐ Yes ☒ No Size of gravel _____

Placed from _____ feet to _____ feet

Surface seal depth 32 Material used in seal ☐ Cement grout☒ Pudding clay ☐ Well cuttingsSealing procedure used ☐ Sherry pit ☐ Temporary surface casing☒ Overbore to seal depth

6. LOCATION OF WELL

Sketch map location must agree with written location.



County

Subdivision Name _____

Lot No. _____ Block No. _____

S 1/4 SW 1/4 Sec. 1, T. 1, N. 1/4, R. 2, E. 1/4

10.

Work started 3-2-74 finished 3-13-74

11. DRILLERS CERTIFICATION

Firm Name SOS Well Drilling Firm No. 212Address RT. 3 Meridian Date 3-16-74Signed by (Firm Official) Earl Skinn

and

(Operator) Earl Skinn

MICROFILMED

2

092680

1. DRILLING PERMIT NO. 63-93-W-0926-000
Other IDWR No. _____

2. OWNER: JC Zimmerman
Name
Address 6505 Bowmont Rd
City Nampa State Id Zip 83686

3. LOCATION OF WELL by legal description:

Sketch map location must agree with written location.


 Twp. 1 North ☒ or South ☐
 Rge. 2 East ☐ or West ☒
 Sec. 1, 1/4 SW 1/4 NE 1/4
 Gov't Lot _____ County _____

Address of Well Site Same
City _____

Lt. _____ Blk. _____ Sub. Name _____

4. PROPOSED USE:

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

5. TYPE OF WORK

☒ New Well ☐ Modify or Repair ☐ Replacement ☐ Abandonment

6. DRILL METHOD

☐ Mud Rotary ☒ Air Rotary ☐ Cable ☐ Other_____

7. SEALING PROCEDURES

SEAL/FILTER PACK			AMOUNT	METHOD
Material	From	To	Sacks or Pounds	
Dry Gran Bent	0	150	1200 lb	Overbore

Was drive shoe used? ☒ Y ☐ N Shoe Depth(s) 150
Was drive shoe seal tested? Y ☐ N ☒ How? _____

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
6	1/2	150	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:

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

11. WELL TESTS:

☐ Pump ☐ Bailer ☒ Air ☐ Flowing Artesian

Yield gal./min.	Drawdown	Pumping Level	Time
20	NA	126	1 1/4 Hr.
30	NA	130	4 1/4 Hr.
50	NA	140	1 1/4 Hr.

Water Temp. 58° Bottom hole temp. N/A
Water Quality test or comments: Clear 19 Grain Hard

12. LITHOLOGIC LOG: (Describe repairs or abandonment)

Water

Bore Dia.	From	To	Remarks: Lithology, Water Quality & Temperature	Y	N
8	0	5	Spill		X
8	5	12	Hard pan		X
8	12	15	Broken Lava		X
8	15	120	Solid Lava		X
8	120	126	Red Cinder		X
8	126	149	Brn Chalk Clay		X
6	149	150	Broken Lava	X	
6	150	162	Solid Lava		X
6	162	165	Broken Lava	X	
6	165	172	Solid Lava		X
6	172	173	Void	X	
6	173	190	Broken Lava	X	

RECEIVED

OCT 24 1994

WATER RESOURCES
WESTERN REGION

~~FEB 08 1995~~

Completed Depth 190 (Measurable)
Date Started 9/30/94 Completed 10/3/94

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 Domestic Pump & Drill Firm No. 483

Firm Official _____ Date _____

and
Supervisor or Operator J. K. Solomon Date 10/6/94

(Sign once if Firm Official & Operator)

WELL DRILLER'S REPORT

3

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

1. WELL OWNER Name <u>J C Zimmerman</u> Address <u>Nampa RFD 3</u> Owner's Permit No. <u>none</u>	7. WATER LEVEL Static water level <u>90</u> feet below land surface Flowing? ☐ Yes ☒ No G.P.M. flow _____ Temperature _____ ° F. Quality _____ Artesian closed-in pressure _____ p.s.i. Controlled by ☐ Valve ☐ Cap ☐ Plug
2. NATURE OF WORK ☐ New well ☒ Deepened ☐ Replacement ☐ Abandoned (describe method of abandoning) _____	8. WELL TEST DATA ☒ Pump ☐ Bailer ☐ Other Discharge G.P.M. <u>2000 gpm</u> Draw Down _____ Hours Pumped <u>2 hr</u>
3. PROPOSED USE ☐ Domestic ☐ Irrigation ☐ Test ☐ Municipal ☐ Industrial ☒ Stock	9. LITHOLOGIC LOG 033925 Hole Diam. Depth From To Material Water Yes No 12 0 20 8 20 100 Lava Rock 8 100 180 Drilled by Carl Polley 8 100 180 Hand found Lava Rock 8 180 335 Soft Broken lava 6 335 353 Clay 6 353 365 Water X and sand Well was drilled to 100 ft by Carl Polley Hosack furnished drilling well to 365 feet cased with 6" 8000 well pipe to 353 ft 8" 250 casing 21 long unsealed to face Rock
4. METHOD DRILLED ☒ Cable ☐ Rotary ☐ Dug ☐ Other	
5. WELL CONSTRUCTION Diameter of hole <u>12</u> inches Total depth <u>30</u> feet Casing schedule: ☒ Steel ☒ Concrete To 20 feet Thickness Diameter From To _____ inches _____ inches _____ feet _____ feet _____ inches _____ inches _____ feet _____ feet _____ inches _____ inches _____ feet _____ feet _____ inches _____ inches _____ feet _____ feet Was a packer or seal used? ☐ Yes ☒ No Perforated? ☐ Yes ☐ No How perforated? ☐ Factory ☐ Knife ☐ Torch Size of perforation _____ inches by _____ inches Number From To _____ perforations _____ feet _____ feet _____ perforations _____ feet _____ feet _____ perforations _____ feet _____ feet Well screen installed? ☐ Yes ☒ No Manufacturer's name _____ Type _____ Model No. _____ Diameter _____ Slot size _____ Set from _____ feet to _____ feet Diameter _____ Slot size _____ Set from _____ feet to _____ feet Gravel packed? ☐ Yes ☒ No Size of gravel _____ Placed from _____ feet to _____ feet Surface seal? ☒ Yes ☐ No To what depth <u>20</u> feet Material used in seal ☒ Cement grout ☐ Puddling clay	
6. LOCATION OF WELL Sketch map location must agree with written location. 63 N W E S County <u>Canyon Ida</u> SW NE SE Sec. <u>1</u> T. <u>1</u> N. R. <u>2</u> NW Sec 1 T1N1R2W Canyon county, Ida	10. Work started <u>Sept 2 1970</u> finished <u>May 27 1971</u> 11. DRILLER'S CERTIFICATION This well was drilled under my supervision and this report is true to the best of my knowledge. <u>A E Hosack</u> 27 Driller's or Firm's Name Number Address <u>RFD 5 Nampa</u> Signed By <u>A E Hosack</u> Date <u>June 3 1971</u>

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.

75

[illegible]

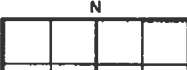
1. DRILLING PERMIT NO. 63-96-W-0104-000
Other IDWR No. _____

2. OWNER:

Name Larry Fogleman
Address 930 N Maple Grove
City Boise State ID Zip 83704

3. LOCATION OF WELL by legal description:

Sketch map location must agree with written location.



Twp. 1 North ☒ or South ☐
 Rge. 2 East ☐ or West ☒
 Sec. 1 $\frac{1}{4}$ SW $\frac{1}{4}$ NE $\frac{1}{4}$
 Gov't Lot _____ County Canyon $\frac{10 \text{ acres}}$ $\frac{40 \text{ acres}}$ $\frac{160 \text{ acres}}$

Address of Well Site 5002 C S. Side
 City Nampa
 (Give at least name of road + Distance to Road or Landmark)

Lt. _____ Blk. _____ Sub. Name _____

4. PROPOSED USE:

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

5. TYPE OF WORK

☒ New Well ☐ Modify or Repair ☐ Replacement ☐ Abandonment

6. DRILL METHOD

☐ Mud Rotary ☒ Air Rotary ☐ Cable ☐ Other _____

7. SEALING PROCEDURES

SEAL/FILTER PACK			AMOUNT	METHOD
Material	From	To	Sacks or Pounds	
Bend-it	0	160	900 +	Pour

Was drive shoe used? ☒ Y ☐ N Shoe Depth(s) 198

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

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
6"	12	198	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:

165 ft. below ground Artesian pressure _____ lb.
Depth flow encountered 260 ft. Describe access port or
control devices: CAP

11. WELL TESTS:

☐ Pump ☐ Bailer ☒ Air ☐ Flowing Artesian

Yield gal./min.	Drawdown	Pumping Level	Time
100 ±	240	240	2 Hr

Water Temp. 64 Bottom hole temp. 64

Water Quality test or comments: _____

12. LITHOLOGIC LOG: (Describe repairs or abandonment)

Water

[illegible]

Completed Depth 260 (Measurable)
Date: Started 6-2-96 Completed 2-8-96

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 Isosure Valley Limited Firm No. 566

Firm Official [Signature] Date 3-12-9

Supervisor or Operator [Signature] Date 3-2-91

(Sign once if Firm Official & Operator)

FORWARD WHITE COPY TO WATER RESOURCES



STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

USE TYPEWRITER OR
BALLPOINT PEN

JUL 18 1988

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.

7 90
JUL 28 1988

Department of Water Resources Name <u>J C ZIMMERMAN</u> Address <u>RT 3 BOX 3525 Nampa</u> Owner's Permit No. <u>63-88-W-002 63-10544</u>		7. WATER LEVEL Static water level <u>108</u> feet below land surface. Flowing? ☐ Yes ☒ No G.P.M. flow _____ Artesian closed-in pressure _____ p.s.i. Controlled by: ☐ Valve ☐ Cap ☐ Plug Temperature <u>56</u> °F. Quality <u>good</u> Describe artesian or temperature zones below.																																																																																																																							
2. NATURE OF WORK ☒ New well ☐ Deepened ☐ Replacement ☐ Abandoned (describe abandonment procedures such as materials, plug depths, etc. in lithologic log)		8. WELL TEST DATA ☒ Pump ☐ Bailor ☐ Air ☐ Other _____																																																																																																																							
3. PROPOSED USE ☐ Domestic ☒ Irrigation ☐ Test ☐ Municipal ☐ Industrial ☐ Stock ☐ Waste Disposal or Injection ☐ Other _____ (specify type)		<table border="1"><thead><tr><th>Discharge G.P.M.</th><th>Pumping Level</th><th>Hours Pumped</th></tr></thead><tbody><tr><td><u>800</u></td><td><u>UNKNOWN</u></td><td><u>24</u></td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr></tbody></table>		Discharge G.P.M.	Pumping Level	Hours Pumped	<u>800</u>	<u>UNKNOWN</u>	<u>24</u>																																																																																																																
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5. WELL CONSTRUCTION Casing schedule: ☒ Steel ☐ Concrete ☐ Other _____ Thickness _____ inches Diameter _____ inches From _____ feet To _____ feet <u>2.50</u> inches <u>12</u> inches + <u>3</u> feet <u>30</u> feet <u>2.50</u> inches <u>10</u> inches <u>84</u> feet <u>135</u> 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 <u>30</u> Material used in seal: ☐ Cement grout ☐ Bentonite ☒ Puddling clay ☐ _____ Sealing procedure used: ☐ Slurry pit ☐ Temp. surface casing ☒ Overbore to seal depth Method of joining casing: ☐ Threaded ☒ Welded ☐ Solvent Weld _____ ☐ Cemented between strata Describe access port <u>plug in sanitary cap</u>		10. Work started <u>JAN 15 88</u> finished <u>FEB 24 88</u>																																																																																																																							
6. LOCATION OF WELL Sketch map location must agree with written location Subdivision Name <u>DEC 12 1988</u> Lot No. _____ Block No. _____ County <u>Canyon</u> <u>SE 1/4 NW 1/4 Sec. 1, T. 1N, R. 2W, E.W.</u>		11. DRILLERS CERTIFICATION I certify that all minimum well construction standards were complied with at the time the rig was removed. Firm Name <u>Johanson Drilling</u> Firm No. <u>92</u> Address <u>RT 1 BOX 830 Milla</u> Date <u>FEB 26 88</u> Signed by (Firm Official) <u>Robert D. Johanson</u> and (Operator) <u>Sam Johanson</u>																																																																																																																							

1. DRILLING PERMIT NO. 63-94-W-0532 . 000

Other IDWR No.

2. OWNER:

Name Bud Landon
Address 1822 Sunny Ridge Rd
City Nampa State ID Zip 83686

3. LOCATION OF WELL by legal description:

Sketch map location must agree with written location.



T. 1 North ☒ or South ☐
 R. 2 East ☐ or West ☒
 Sec. 1 1/4 NE 1/4 SW 1/4
 Gov't Lot _____ County Canyon

Address of Well Site Corner of Bowmont RD + Happy Valley Rd - 1/2 MI. S 1st House after Canal
(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	
Dry Gran Bent	0	18	300lb	Overbore

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

8. CASING/LINER:

Diameter	From	To	Gauge	Casting	Liner	Steel	Plastic	Welded	Threaded
6	12	18	250	K		☒	☐	☒	☐
4 1/2	7	207	SL 40		K	☐	☒	☐	☐
						☐	☐	☐	☐
						☐	☐	☐	☐

Final location of shoes 18'

Top Packer or Headpipe _____ Bottom Tailpipe _____

9. PERFORATIONS/SCREENS

☒ Perforations Method Saw

☐ Screens Type _____ Material _____

From	To	Slot Size	Number	Diameter	Tel./Pipe Size	Casting	liner
167	207	1/8	150			☐	☒
						☐	☐
						☐	☐
						☐	☐

10. WELL TESTS:

☐ Pump ☐ Bailer ☒ Air ☐ Flowing Artesian

Yield gal./min.	Drawdown	Pumping Depth	Time
30	NA	180	1/2

Temperature of water 59 Was a water analysis done? Yes ☐ No ☒

By whom?

Water Quality (odor, etc.) *Clear*

Bottom Hole Temperature 59

11. STATIC WATER LEVEL:

123 ft. below surface Depth artesian flow found _____
Artesian pressure _____ lb. Describe access port Sanitary Seal
Describe Controlling Devices: _____

12. LITHOLOGIC LOG: (Describe repairs or abandonment)

Bore Dia.	From	To	Remarks: Lithology, Water Quality & Temperature	GPM	SW
8	0	3	fill		
8	3	15	Broken Lava		
8	15	18	Solid Lava		
6	18	42	Solid Lava		
6	42	45	Cave (Nothing)		
			Lost Circulation		
6	45	100	Drilled Like Broken Lava		
6	100	126	Drilled Like Cinders Soft		
6	126	202	Drilled Like Broken Lava	30	
			Some Circulation Returned at 207 Started Blowing 30 GPM Lost again after Water Cleared		

RECEIVED
SEP 15 1994

RECEIVED
JUN 30 1994

WATER RESOURCES
WESTERN REGION

FEB 08 1995

Date: Started 6/16/94

Completed 6/17/94

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 Domestic Pump & Drilling Firm No. 4/83

Firm Official _____ Date _____

and
Supervisor or Operator SKel Date 6/27/94

(Sign once if Firm Official & Operator)

FORWARD WHITE COPY TO WATER RESOURCES

10

IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

851125
Office Use Only
Well ID No. 407593
Inspected by _____
Twp _____ Rge _____ Sec _____
1/4 _____ 1/4 _____ 1/4 _____
Lat: : : Long: : : **12**

1. WELL TAG NO. D 0042197
DRILLING PERMIT NO. _____
Water Right or Injection Well No. _____

2. OWNER:
Name Mark Wood
Address 5180 S. Side Blvd
City Nampa State Id Zip 83686

3. LOCATION OF WELL by legal description:
You must provide address or Lot, Blk, Sub. or Directions to well.
Twp. 1 North E or South ☐
Rge. 2 East ☐ or West 14
Sec. 1 1/4 NE 1/4 SW 1/4
Gov't Lot _____ County Canyon
Lat: : : Long: : :
Address of Well Site 5180 S. Side Blvd
City Nampa
(Give at least name of road - Distance to Road or Landmark)
Lt. _____ Blk. _____ Sub. Name _____

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

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

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

7. SEALING PROCEDURES

Seal Material	From	To	Weight / Volume	Seal Placement Method
<u>Bentonite</u>	<u>3</u>	<u>132</u>	<u>3850#</u>	<u>Pour in</u>

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
<u>6 5/8 + 2</u>	<u>132</u>	<u>200</u>	<u>Steel</u>		☒	☐	☒	☐

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

9. PERFORATIONS/SCREENS PACKER TYPE

Perforation Method NA
Screen Type & Method of Installation NA

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

10. FILTER PACK

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

11. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

141 ft. below ground Artesian pressure _____ lb.
Depth flow encountered 141 ft. Describe access port or control devices:
remove well cap

12. WELL TESTS:

Yield gal./min.	Drawdown	Pumping Level	Time
<u>20</u>	<u>2'</u>	<u>143</u>	<u>1 hr</u>

Water Temp. 60 Bottom hole temp. 60
Water Quality test or comments: good

Depth first Water Encounter 141
13. LITHOLOGIC LOG: (Describe repairs or abandonment) Water

Bore Dia.	From	To	Remarks: Lithology, Water Quality & Temperature	Y	N
<u>10</u>	<u>0</u>	<u>18</u>	<u>dirt</u>		☒
"	<u>18</u>	<u>21</u>	<u>broken basalt</u>		☒
"	<u>21</u>	<u>35</u>	<u>Solid basalt</u>		☒
"	<u>35</u>	<u>74</u>	<u>Cinders with rocks</u>		☒
<u>8</u>	<u>74</u>	<u>82</u>	<u>hard-solid basalt</u>		☒
"	<u>82</u>	<u>85</u>	<u>Cinders</u>		☒
"	<u>85</u>	<u>88</u>	<u>basalt</u>		☒
"	<u>88</u>	<u>127</u>	<u>brown cinders</u>		☒
"	<u>127</u>	<u>132</u>	<u>basalt</u>		☒
<u>6</u>	<u>132</u>	<u>138</u>	<u>basalt</u>		☒
"	<u>138</u>	<u>200</u>	<u>Cinders with basalt</u>		☒
			<u>holders - lots of water</u>		

RECEIVED

APR 10 2006

WATER RESOURCES
WESTERN REGION

Completed Depth 200 ft (Measurable)
Date: Started 11/7/05 Completed 12/16/05

14. DRILLER'S CERTIFICATION

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

Company Name Robinson Well Drilling Firm No. 490

Principal Driller _____ Date _____

and Driller or Operator II Ralph Robinson Date 2/28/06

Operator I _____ Date _____

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

IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

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

17

1. WELL TAG NO. D 0019080

DRILLING PERMIT NO. _____

Other IDWR No. _____

2. OWNER:

Name Holton Homes

Address 16299 Franklin Rd.

City Nampa State ID Zip 83687

3. LOCATION OF WELL by legal description:

Sketch map location must agree with written location.

North ☒ or South ☐
East ☐ or West ☒
Twp. 1 Rge. 2 Sec. 2
Gov't Lot _____ County Canyon Long. _____
Address of Well Site 7162 Hacienda Way City Nampa

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	
Benonite	0	77	10	pour

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	77	250	steel	☒	☐	☒	☐

Length of Headpipe _____ Length of Tailpipe _____

9. PERFORATIONS/SCREENS:

☐ Perforations ☐ Screens Method _____ Screen Type _____

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
						☐	☐

10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

90 ft. below ground Artesian pressure _____ lb.

Depth flow encountered 173 ft. Describe access port or control devices: cap

11. WELL TESTS:

☐ Pump ☐ Bailer ☒ Air ☐ Flowing Artesian

Yield gal./min.	Drawdown	Pumping Level	Time
75	160	160	2 hr

Water Temp. 56 Bottom hole temp. 56

Water Quality test or comments: _____

Depth first Water Encounter 119

12. LITHOLOGIC LOG: (Describe repairs or abandonment)

Bore Dia.	From	To	Remarks Lithology, Water Quality & Temperature	Water	Y	N
10	0	10	Top soil			
10	10	18	Clay			
8	18	77	Broken Lava			
6	77	119	Lava			
6	119	122	Broken Lava		X	
6	122	168	Lava			
6	168	173	Broken Lava		X	
6	173	175	Lava			

RECEIVED

SEP 20 2001

WATER RESOURCES
WESTERN REGION

Completed Depth 175 (Measurable)

Date: Started 9/17/2001 Completed 9/17/2001

13. DRILLER'S CERTIFICATION:

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

Company Name Treasure Valley Drilling Firm No. 560

Firm Official _____ Date 9/19/2001

and _____

Driller or Operator _____ Date 9/19/2001

(Sign once if Firm Official & Operator)

Date: 4/27/2005 Time:3:12:43 PM

IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

Office Use Only			
Well ID No.	810843		
Inspected by			
Twp	Rge	Sec	
1/4	1/4	1/4	
Lat:	:	ong:	:

1. WELL TAG NO. D 0030624
DRILLING PERMIT NO. _____
Water Right or Injection Well No. _____

21

12. WELL TESTS:

☐ Pump ☐ Bailor ☒ Air ☐ Flowing Artesian

Yield gal./min.	Drawdown	Pumping Level	Time
30		185	2 hrs

Water Temp. 55° Bottom hole temp. _____Water Quality test or comments: 2-5 NITRATEDepth first Water Encounter 113

13. LITHOLOGIC LOG: (Describe repairs or abandonment)

Water

Bore Dia.	From	To	Remarks: Lithology, Water Quality & Temperature	Y	N
12	0	1	TOP SOIL		X
12	1	3	BROWN CLAY		X
12	3	89	HARD BLUE BASALT		X
6	19	53	HARD BLUE BASALT		X
6	53	56	SOFTER BROKEN BASALT		X
6	56	62	med. HARD Redish BROWN BASALT		X
6	62	80	HARD BLUE BASALT		X
6	80	87	BROWN ALTERED BASALT		X
6	87	112	med. HARD BLUE BASALT		X
6	112	113	BLUE FRACTURED BASALT	3 1/2	9PM
6	113	156	HARD BLUE BASALT		X
6	156	168	Blue + Redish BROWN cinders	30	9PM
6	168	185	HARD BLUE BASALT		X

2. OWNER:
Name LOREN BYSACK
Address 3119 SOUTH CAYNAN STREET
City NAMPA State Id. Zip 83686

3. LOCATION OF WELL by legal description:

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

Twp. 1 North ☒ or South ☐
Rge. 2 East ☐ or West ☒
Sec. 2 1/4 NE 1/4 NE 1/4
Gov't Lot _____ County CANYON 40 acres 160 acresLat: _____ Long: _____
Address of Well Site 5751 Southside Blvd.

(Give at least name of road & distance to road or landmark)

City NAMPA

Lt. _____ Blk. _____ Sub. Name _____

4. USE:

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

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

☒ New Well ☐ Modify ☐ Abandonment ☐ Other _____

6. DRILL METHOD:

☒ Air Rotary ☐ Cable ☐ Mud Rotary ☐ Other _____

7. SEALING PROCEDURES

Seal Material	From	To	Weight / Volume	Seal Placement Method
Bentonite chips	4	19	600 lbs.	Poured
CUTTINGS	0	4		

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	19	.250	STEEL	☒	☐	☐	☐
4	-5	185	sch. 40	PVC	☐	☒	☒	☐

Length of Headpipe _____ Length of Tailpipe _____

Packer ☒ Y ☐ N Type SHALE TRAP AT 144'

9. PERFORATIONS/SCREENS PACKER TYPE

Perforation Method SAW

Screen Type & Method of Installation _____

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
145	185	1/2 x 1/2	108	4	PVC	☐	☒
						☐	☐

10. FILTER PACK

Filter Material	From	To	Weight / Volume	Placement Method

11. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

96 ft. below ground Artesian pressure _____ lb.

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

SANITARY WELL SEAL

14. DRILLER'S CERTIFICATION

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

Company Name GESTRIN Well Drilling, Inc. Firm No. 408Principal Driller Robert W. Minton Date 2-27-04

Driller or Operator II _____ Date _____

Operator I _____ Date _____

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

23

FORWARD WHITE COPY TO WATER RESOURCES

IDAHO DEPARTMENT OF WATER RESOURCES

WELL DRILLER'S REPORT

053934

Office Use Only **24**
Inspected by _____
Twp _____ Rge _____ Sec _____
1/4 1/4 1/4
Lat: _____ Long: _____
☒ Air ☐ Flowing Artesian

1. WELL TAG NO. D 0009759
DRILLING PERMIT NO. 63-99-W-0511-000
Other IDWR No. _____

2. OWNER:
Name Mark Hofstetter
Address 90 Bradshaw Const 2511 Dorman Ave
City Caldwell State Id Zip 83605

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. 2 East ☐ or West ☒
Sec. 2 NE 1/4 NE 1/4
Gov't Lot _____ County Canyon
Lat: _____ Long: _____
Address of Well Site 7125 Bowmont
City Nampa
Rd
(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		
<u>Bentonite</u>	<u>0</u> <u>78</u>	<u>1450</u>	<u>#</u>	<u>over bore</u>

Was drive shoe used? ☒ ☐ N Shoe Depth(s) 78'
Was drive shoe seal tested? ☐ Y ☐ N How? _____

8. CASING/LINER:

Diameter	From To	Gauge	Material	Casing	Liner	Welded	Threaded
<u>6"</u>	<u>+2</u> <u>78</u>	<u>250</u>	<u>Steel</u>	☒	☐	☒	☐

Length of Headpipe _____ Length of Tailpipe _____

9. PERFORATIONS/SCREENS

Perforations _____ Method _____
Screens _____ Screen Type open

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

10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

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

11. WELL TESTS:

☐ Pump ☐ Bailor ☒ Air ☐ Flowing Artesian

Yield gal./min.	Drawdown	Pumping Level	Time
<u>60+</u>			<u>1 hour</u>

Water Temp. 50 Bottom hole temp. _____
Water Quality test or comments: Iron 0.5 PA 8
Grains 8 Depth first Water Encounter 120'

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

Bore Dia.	From To	Remarks: Lithology, Water Quality & Temperature	Y	N
<u>10"</u>	<u>0</u> <u>10</u>	<u>Top Soil</u>		
<u>"</u>	<u>10</u> <u>18</u>	<u>hard fractured lava rock</u>		
<u>8</u>	<u>18</u> <u>45</u>	<u>hard black lava rock</u>		
	<u>45</u> <u>55</u>	<u>hard brown lava</u>		
	<u>55</u> <u>59</u>	<u>fractured brown lava</u>		
	<u>59</u> <u>62</u>	<u>hard brown lava</u>		
	<u>62</u> <u>64</u>	<u>soft lava - no return</u>		
	<u>64</u> <u>78</u>	<u>fractured lava - no return</u>		
	<u>78</u> <u>89</u>	<u>hard brown lava</u>		
	<u>89</u> <u>120</u>	<u>grey hard lava</u>		
	<u>120</u> <u>148</u>	<u>fractured black lava</u>	☒	
	<u>148</u> <u>154</u>	<u>fractured black w/ brown lava rock</u>		☒
	<u>154</u> <u>155</u>	<u>sand</u>		☒
	<u>155</u> <u>159</u>	<u>hard black lava</u>		
	<u>159</u> <u>160</u>	<u>fractured seam</u>		
	<u>160</u> <u>161</u>	<u>hard black lava</u>		

MICROFILMED

JUL 13 1993

RECEIVED
JUL 20 1999
JUL 27 1999
WATER RESOURCES
WESTERN REGION

Department of Water Resources

Completed _____ Depth 161' (Measurable)
Date: Started 7.1.99 Completed 7.7.99

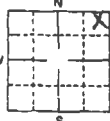
13. DRILLER'S CERTIFICATION

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

Company Name Adams Pump & Drill Co. 0457
Firm Official Dale Adams Date 7.8.99
and Randy B. Date 7.8.99
Driller or Operator (Sign once if Firm Official & Operator)

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

26

1. WELL OWNER Name <u>LARRY TRIMBLE</u> Address <u>7141 BOWMONT ROAD NAMPA 83686</u> Drilling Permit No. <u>63-92-C-087</u> Water Right Permit No. _____		7. WATER LEVEL Static water level <u>109</u> feet below land surface. Flowing? ☐ Yes ☐ No G.P.M. flow _____ Artesian closed-in pressure _____ p.s.i. Controlled by: ☐ Valve ☐ Cap ☐ Plug Temperature _____ °F. Quality _____ Describe artesian or temperature zones below.																																																					
2. NATURE OF WORK ☒ 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.)		8. WELL TEST DATA ☐ Pump ☐ Bailer ☐ Air ☐ Other _____ <table border="1"><thead><tr><th>Discharge G.P.M.</th><th>Pumping Level</th><th>Hours Pumped</th></tr></thead><tbody><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr></tbody></table>		Discharge G.P.M.	Pumping Level	Hours Pumped																																																	
Discharge G.P.M.	Pumping Level	Hours Pumped																																																					
3. PROPOSED USE ☒ Domestic ☐ Irrigation ☐ Monitor ☐ Industrial ☐ Stock ☐ Waste Disposal or Injection ☐ Other _____ (specify type)		9. LITHOLOGIC LOG <u>079470</u> <table border="1"><thead><tr><th rowspan="2">Bore Diam.</th><th colspan="2">Depth</th><th rowspan="2">Material</th><th colspan="2">Water</th></tr><tr><th>From</th><th>To</th><th>Yes</th><th>No</th></tr></thead><tbody><tr><td>8</td><td>0</td><td>2</td><td>TOPSOIL/HARD PAN</td><td></td><td>X</td></tr><tr><td>2</td><td>69</td><td>72</td><td>SOLID LAUA</td><td></td><td>X</td></tr><tr><td>6</td><td>69</td><td>72</td><td>LAUA CREVICES</td><td>X</td><td></td></tr><tr><td>72</td><td>111</td><td>120</td><td>SOLID LAUA</td><td></td><td>X</td></tr><tr><td>111</td><td>120</td><td>135</td><td>LAUA CREVICES</td><td>X</td><td></td></tr><tr><td>120</td><td>135</td><td>156</td><td>SOLID LAUA</td><td></td><td>X</td></tr><tr><td>135</td><td>156</td><td> </td><td>LAUA CREVICES</td><td>X</td><td></td></tr></tbody></table>		Bore Diam.	Depth		Material	Water		From	To	Yes	No	8	0	2	TOPSOIL/HARD PAN		X	2	69	72	SOLID LAUA		X	6	69	72	LAUA CREVICES	X		72	111	120	SOLID LAUA		X	111	120	135	LAUA CREVICES	X		120	135	156	SOLID LAUA		X	135	156		LAUA CREVICES	X	
Bore Diam.	Depth		Material		Water																																																		
	From	To		Yes	No																																																		
8	0	2	TOPSOIL/HARD PAN		X																																																		
2	69	72	SOLID LAUA		X																																																		
6	69	72	LAUA CREVICES	X																																																			
72	111	120	SOLID LAUA		X																																																		
111	120	135	LAUA CREVICES	X																																																			
120	135	156	SOLID LAUA		X																																																		
135	156		LAUA CREVICES	X																																																			
4. METHOD DRILLED ☒ Rotary ☒ Air ☐ Auger ☐ Reverse rotary ☐ Cable ☐ Mud ☐ Other _____ (backhoe, hydraulic, etc.)		JUN 27 1992 Department of Water Resources Nampa Regional Office																																																					
5. WELL CONSTRUCTION Casing schedule: ☒ Steel ☐ Concrete ☐ Other _____ Thickness _____ inches Diameter _____ inches From _____ feet To _____ 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 <u>20</u> Material used in seal: ☐ Cement grout ☒ Bentonite ☐ Puddling clay ☐ _____ Sealing procedure used: ☐ Slurry pit ☒ Temp. surface casing ☒ Overbore to seal depth Method of joining casing: ☐ Threaded ☒ Welded ☐ Solvent Weld ☐ Cemented between strata Describe access port _____																																																							
6. LOCATION OF WELL Sketch map location must agree with written location.  Subdivision Name _____ Lot No. _____ Block No. _____ County <u>CANYON</u> Address of Well Site <u>SAME</u> (give at least name of road) <u>NE 1/4 NE 1/4 Sec. 2</u> T. <u>1</u> N ☒ or S ☐ R. <u>2</u> E ☐ or W ☒																																																							
10. DRILLER'S CERTIFICATION I/We certify that all minimum well construction standards were complied with at the time the rig was removed. DAVIS WELL & PUMP CO. Firm No. <u>101</u> 415 N. PITT LANE NAMPA, IDAHO 83687 Date <u>6-10-92</u> Signed by Drilling Supervisor <u>Chuck Davis</u> and _____ (Operator) _____ (If different than the Drilling Supervisor)																																																							

FORWARD WHITE COPY TO WATER RESOURCES

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. WELL TAG NO. D 0019511
 DRILLING PERMIT NO. _____
 Other IDWR No. _____

2. OWNER:

Name Tuttle Construction
Address 2203 N Montana
City Nampa State ID Zip 83605

3. LOCATION OF WELL by legal description:

Sketch map location must agree with written location.

N	Twp. <u>1</u>	North ☒	or	South ☐
W	Rge. <u>2</u>	East ☐	or	West ☒
S	Sec. <u>2</u>	1/4 SW 1/4 NE 1/4 10 acres 40 acres 160 acres		
	Gov't Lot _____	County <u>Canyon</u>		
	Lat: _____	Long: _____		
	Address of Well Site <u>5535 7th St.</u>			
	City <u>Nampa</u>			

(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

☒ 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	20	5	overbore

Was drive shoe used? ☒ Y ☐ N Shoe Depth(s) 137

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

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
6	+2	137	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:

95 ft. below ground Artesian pressure _____ lb.
Depth flow encountered 140 ft. Describe access port or control
devices: cap

11. WELL TESTS:

☐ Pump ☐ Baller ☒ Air ☐ Flowing Artesian

Yield gal./min.	Drawdown	Pumping Level	Time
30	135	135	2 hr

Water Temp. **56** Bottom hole temp. **56**

Water Quality test or comments: _____

12. LITHOLOGIC LOG: (Describe repairs or abandonment)

[illegible]Completed Depth **140** (Measurable)

Date: Started 1/8/2002 Completed 1/9/2002

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 **Treasure Valley Drilling** Firm No. **560**

Firm Official [Signature] Date 1/9/2002

and _____

(Sign once if Firm Official & Operator)

IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

846123
Office Use Only
Well ID No. 416179
Inspected by _____
Twp _____ Rge _____ Sec _____
1/4 _____ 1/4 _____ 1/4 _____
Lat: _____ Long: _____

31

1. WELL TAG NO. D 0047924
DRILLING PERMIT NO. _____
Water Right or Injection Well No. _____

2. OWNER:

Name Colleen Green
Address 2293 5th St.
City Nampa State ID Zip 83686

3. LOCATION OF WELL by legal description:

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

Twp. 1 North ☒ or South ☐
Rge. 2 East ☐ or West ☒
Sec. 2 NE 1/4 SW 1/4 NE 1/4
Gov't Lot _____ County CANYON
Lat: 43° 27' 29" Long: 116° 32' 39"
Address of Well Site 2346 5th St. 1 1/2 St.

(Give at least name of road - Distance to Road or Landmark)
City Bowmont
Lt. 1 Blk. 12 Sub. Name Bowmont

4. USE:

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

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

☒ New Well ☐ Modify ☐ Abandonment ☐ Other _____

6. DRILL METHOD:

☐ Air Rotary ☒ Cable ☐ Mud Rotary ☐ Other _____

7. SEALING PROCEDURES

Seal Material	From	To	Weight / Volume	Seal Placement Method
<u>Bentonite</u>	<u>0</u>	<u>38</u>	<u>1100 lbs</u>	<u>OVERBURD</u>

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
<u>6</u>	<u>+2</u>	<u>38</u>	<u>.250</u>	<u>Steel</u>	☒	☐	☒	☐

Length of Headpipe _____ Length of Tailpipe _____

Packer ☐ Y ☐ N Type _____

9. PERFORATIONS/SCREENS PACKER TYPE

Perforation Method _____

Screen Type & Method of Installation _____

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

10. FILTER PACK

Filter Material	From	To	Weight / Volume	Placement Method

11. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

91 ft. below ground Artesian pressure _____ lb.
Depth flow encountered 128 ft. Describe access port or control devices: well cap

12. WELL TESTS:

☐ Pump ☒ Bailer ☐ Air ☐ Flowing Artesian

Yield gal./min.	Drawdown	Pumping Level	Time
<u>15</u>	<u>1 ft</u>	<u>92</u>	<u>1/2 hr.</u>

Water Temp. 59 Bottom hole temp. 59Water Quality test or comments: good Depth first Water Encounter 123

13. LITHOLOGIC LOG: (Describe repairs or abandonment)

Bore Dia	From	To	Remarks: Lithology, Water Quality & Temperature	Y	N
<u>10</u>	<u>0</u>	<u>18</u>	<u>TOPSOIL</u>		
<u>10</u>	<u>18</u>	<u>25</u>	<u>Basalt solid</u>		
<u>10</u>	<u>25</u>	<u>31</u>	<u>Basalt broken</u>		
<u>10</u>	<u>31</u>	<u>38</u>	<u>Basalt</u>		
<u>6</u>	<u>38</u>	<u>52</u>	<u>Basalt</u>		
	<u>52</u>	<u>58</u>	<u>Cinders block</u>		
	<u>58</u>	<u>61</u>	<u>Basalt</u>		
	<u>61</u>	<u>123</u>	<u>Basalt solid</u>		
	<u>123</u>	<u>125</u>	<u>Basalt broken</u>		
	<u>125</u>	<u>128</u>	<u>Basalt solid</u>		
	<u>128</u>	<u>129</u>	<u>Basalt broken</u>		
	<u>129</u>	<u>134</u>	<u>Basalt soft</u>		
	<u>134</u>	<u>135</u>	<u>Basalt broken</u>		
	<u>135</u>	<u>150</u>	<u>Basalt</u>		

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JUN 06 2007

WATER RESOURCES
WESTERN REGIONCompleted Depth 150 (Measurable)Date: Started Apr 23 2007 Completed May 1 2007

14. DRILLER'S CERTIFICATION

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

Company Name Johnson Drilling Firm No. 92

Principal Driller _____ Date _____
and _____
Driller or Operator II _____ Date May 4 2007
Operator I _____ Date _____

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

Date: 12/03/01 Time: 11:29 AM

WELL DRILLER'S REPORT

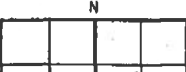
1. WELL TAG NO. D 0000636
 DRILLING PERMIT NO. 63-98-C-0911-000
 Other IDWR No. _____

2. OWNER:

Name Chris Verhaegh
Address PO Box 1496
City Namur State Id Zip 83653

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. 2 East ☐ or West ☒
 Sec. 2 SW 1/4 NE 1/4 1/4 1/4
 Gov't Lot _____ County Canyon ^{10 acres} ^{40 acres} ^{160 acres}
 Lat. : : Long. : :
 Address of Well Site 3rd Street at
Bowmount
 City Nampa
 (Give at least name of road + Distance to Road or Landmark)

Lt. 14 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	19	7	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	20	250	Steel	☒	☐	☐	☐
					☐	☐	☐	☐
					☐	☐	☐	☐

Length of Headpipe _____ Length of Tailpipe _____

9. PERFORATIONS/SCREENS

Perforations Method NONE
Screens Screen Type NONE

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

10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

87 ft. below ground Artesian pressure — lb.
Depth flow encountered 87 ft. Describe access port or
control devices:

11. WELL TESTS:

☒ Pump ☐ Bailer

☐ Air ☐ Flowing Artesian

Pumping Level	...
---------------	-----

Yield gal./min	Drawdown	Pumping Level	Time
35	130'	140'	4 hours

Water Temp. _____ Bottom hole temp. _____

Water Quality test or comments:

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

Bore Dia.	From	To	Remarks: Lithology, Water Quality & Temperature	Y	N
8"	0	10	Top Soil & Calay		
8"	10	20	Hard Lava		
6"	20	80	Hard Lava		
	80	90	Red Sander (lost circulation)		
	90	120	Hard Lava		
	120	140	Clay		
	140	155	Red Gravel		

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MAY 27 1999

Department of Water Resources

RECEIVED

MAY 25 1999

WATER RESOURCES
WESTERN REGION

MICROFILMED

AUG 25 1999

Completed	Depth	155	(Measurable)
Date: Started	12-29-98	Completed	1-1-99

13. DRILLER'S CERTIFICATION

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

Company Name Ransom Water wells Firm No. 575

Firm Official Kuo Karsom Date 5-21-99

and
Driller or Operator Todd Kure Date _____

(Sign once if Firm Official & Operator)

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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: : :

☒ Air ☐ Flowing Artesian

1. WELL TAG NO. D 0000666
 DRILLING PERMIT NO. 63-99-C-0133-000
 Other DWR No. _____

2. OWNER: Chris Verhaegh
Name
Address PO Box 1496
City Nevada State Id Zip 83653

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. 2 East ☐ or West ☒
 Sec. 2 SW 1/4 NE 1/4 1/4
 Gov't Lot 9 County Canyon 10 acres 40 acres 160 acres
 Lat. : : Long. : :
 Address of Well Site 3rd Street
at Bowmount City Bowmount
 (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	4	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	18'	250	Steel	☒	☐	☒	☐
					☐	☐	☐	☐
					☐	☐	☐	☐

Length of Headpipe Length of Tailpipe

9. PERFORATIONS/SCREENS

Perforations Method NONE
Screens Screen Type NONE

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

10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

86 ft. below ground Artesian pressure _____ lb.
Depth flow encountered 134 ft. Describe access port or
control devices:

11. WELL TESTS:

☐ Pump ☐ Bailer ☒ Air ☐ Flowing Artesian

Yield gal./min	Drawdown	Pumping Level	Time
15		95'	4 Hr.

Water Temp. Bottom hole temp.

Water Quality test or comments: _____

12. LITHOLOGIC LOG: (Describe repairs or abandonment)

Depth first Water Encounter 134

[illegible]

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 RANSOM DRILLING Firm No. 575

Firm Official Bob Hanson Date 5-21-99

and

Driller or Operator W. A. [Signature] Date _____

(Sign once if Firm Official & Operator)

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1. WELL TAG NO. D 0000690
 DRILLING PERMIT NO. 63-99-C-0239-000
 Other IDWR No. _____

2. OWNER: Chris Verhaegh
Name _____
Address P.O. Box 1496
City Nampa State ID Zip 83605

3. LOCATION OF WELL by legal description:

Sketch map location must agree with written location.



Twp. 1 North ☒ or South ☐
 Rge. 2 East ☐ or West ☒
 Sec. 2 SW 1/4 NE 1/4 SE 1/4
10 acres 10 acres 10 acres
 Gov't Lot _____ County Canyon
 Lat. : : Long. : :
 Address of We Site 3rd Street
 City Bowmount

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

Lt. 6 Blk. _____ S b _____ 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	19	5	Overtone

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	20	250	Steel	☒	☐	☒	☐
5"	+1	114		Steel	☒	☐	☒	☐
					☐	☐	☐	☐

Length of Headpipe _____ Length of Tailpipe _____

9. PERFORATIONS/SCREENS

9. PERFORATIONS/SCREENS

Perforations Method

Screens	Screen Type
---------	-------------

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

10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

100 ft. below ground Artesian pressure lb.
Depth flow encountered 103 ft. Describe access port or
control devices: 6" Wellman

11. WELK TESTS:

☒ Pump ☐ Bailer ☐ Air ☐ Flowing Artesian

Yield gal/min	Drawdown	Pumping Level	Time
35		106	5.4 hours

Water Temp. _____ Bottom hole temp. _____

Water Quality test or comments: Good clean water

Depth first Water Encounter 103

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

[illegible]

Completed Depth 119 (Measurable)
Date: Started 4-7-99 Completed 5-24-99

13. DRILLER'S CERTIFICATION

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

Company Name Ransom Water Well Firm No. 575

Firm Official For Hanson Date 5-29-99

Driller or Operator Todd Knice ed Holder Date 5-24-99

(Sign once if Firm Official & Operator)

☒ Pump ☐ Bailer

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IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

Office Use Only

47

1. WELL TAG NO. D 0000 790
 DRILLING PERMIT NO. 63 - 99 - C - 829 - 100
 Other IDWR No. _____

054665

11. WELL TESTS:

☐ Pump ☐ Bailer

Twp 1 Rge 2 Sec 2
1/4 SW 1/4 NE 1/4
 Lat: : : Long: : :

☒ Air ☐ Flowing Artesian

2. OWNER: Chirs Verhaegh
Name PO Box 1496
Address Nampa State ID Zip 83653
City

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. 2 East ☐ or West ☒
 Sec. 5 2 SE 1/4 NE 1/4 1/4
 Gov't Lot per phone records 10 acres 40 acres 160 acres
 Lat. 36° 15' 00" N Long. 99° 00' 00" W
 Address of Well Site 3 rd City Bowman
 (Give at least name of road - Distance to Road on Longitude)

Lt. 10 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	

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
5" ± 1		126	250	Steel	☒	☒	☒	☐
					☐	☐	☐	☐
					☐	☐	☐	☐

Length of Headpipe _____ Length of Tailpipe _____

9. PERFORATIONS/SCREENS

Perforations Method torch cut
Screens Screen Type

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
116	026	torch cut			pritz	☒	☒
						☐	☐
						☐	☐

10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

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

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

Depth first Water Encounter

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

[illegible]

Rec'd
OCT 25 1999

MICROFILMED

940 30 1999

Completed _____ Depth 126 _____ (Measurable)
Date: Started 10-2-99 Completed 10-15-99

13. DRILLER'S CERTIFICATION

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

Company Name Kansam Water wall Firm No. 575

Firm Official [Signature] Date 10-20-99

Driller or Operator M. J. Ennis Date 10-15-99

(Sign once if Firm Official & Operator)

DRILLING PERMIT NO. _____

Other IDWR No _____

Name STEVEN VOGT

Address 7285 7TH ST

City **BOWMONT** State ID Zip **83687**

Sketch map location must agree with written location.



Twp. 1 North ☒ or South ☐
 Rge. 2 East ☐ or West ☒
 Sec. 2

Gov't Lot _____
 Lat: _____ Long: _____

Address of Well Site SAME

1/4 SW 1/4 NE 1/4
 160 acres 40 acres 160 acres

County CANYON

City _____
(Give at least name of road + Distance to Road or Landmark)
Lt. 7 Bk. 22 Sub. Name Bowmont

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

(Replacement etc.)

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

Seal/Filter Pack			AMOUNT	METHOD
Material	From	To	Sacks or Pounds	
BENTONITE	0	18	350#	POUR

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

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

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
6	+2	38	250	STEEL	☒	☐	☒	☐
					☐	☐	☐	☐
					☐	☐	☐	☐

Length of Headpipe _____ Length of Tailpipe _____

☐ Perforations	Method
☐ Screens	Screen Type

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
90	140	20		4.5	PVC	☐	☒
						☐	☐
						☐	☐

90	ft. below ground	Artesian pressure	lb.
----	------------------	-------------------	-----

Depth flow encountered	ft.	Describe access port or control
------------------------	-----	---------------------------------

devices:

☐ Pump ☐ Bailer ☒ Air ☐ Flowing Artesian

Yield gal./min	Drawdown	Pumping Level	Time
20+		110	1 HR

Water Temp	Bottom hole temp.
------------	-------------------

Water Quality test or comments

Depth first Water Encounter

12. LITHOLOGIC LOG: (Describe repairs or abandonment)

[illegible]

Completed Depth 142 (Measurable)
Date: Started 10/11/2004 Completed 10/11/2004

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

Company Name **DAVIS WELL & PUMP** Firm No. **101**

Firm Official [Signature] Date 10/15/2004

and _____

Driller or Operator Chris Gano Date 10/15/2004
(Sign once if Firm Official & Operator)

IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

802598 **50**

Office Use Only

Inspected by _____

Twp _____ Rge _____ Sec _____

1/4 _____ 1/4 _____ 1/4 _____

Lat: _____ Long: _____

1. DRILLING PERMIT NO. _____ -D-0030-742

Other IDWR No. _____

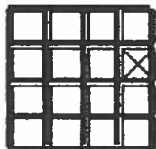
2. OWNER:

Name Stan SvedinAddress 3333 C So. PowerlineCity Melba State ID Zip 83641

3. LOCATION OF WELL by legal description:

Sketch map location must agree with written location

N

W  E

Twp. 1 North ☒ or South ☐

Rge. 2 East ☐ or West ☒

Sec. 2 1/4 SE 1/4 NE 1/4

10 acres 40 acres 160 acres

S

Gov't lot _____ County Canyon

Lat: _____ Long: _____

Address of Well Site 5725 5th AveCity Melba

(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	4'	26'	550#	Overbore
Cuttings	1'	4'		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'	26'	.250	Steel	☒	☐	☒	☐
4.5"	15'	165'	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
125'	165'	1/4"	800	4.5"	PVC	☐	☒
		X3"				☐	☐

10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

95ft. below ground Artesian Pressure _____ lb

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

11. WELL TESTS:

☐ Pump ☐ Bailor ☐ Air ☐ Flowing Artesian

Yield gal/min.	Drawdown	Pumping Level	Time
		NO TEST	
		Lost Circula	

Water Temp. _____ Bottom hole temp. _____

Water Quality test or comments: _____

Depth first Water Encountered _____

12. LITHOLOGIC LOG: (Describe repairs or abandonment)

Water

Bore Dia	From	To	Remarks: Lithology, Water Quality & Temp.	Y	N
10"	0	2'	Brown Topsoil		☒
10"	2'	21'	Brown Sandy Clay		☒
10"	21'	26'	Black Lava		☒
6"	26'	31'	Black Lava		☒
6"	31'	32'	Crack		☒
6"	32'	51'	Black Lava		☒
6"	51'	52'	Crack		☒
6"	52'	80'	Black Lava		☒
6"	80'	110'	Black Cinders		☒
6"	110'	130'	Black Lava		☒
6"	130'	135'	Fractured Black Lava	☒	
6"	135'	168'	Black Lava		☒

RECEIVED

JAN 05 2004

WATER RESOURCES
WESTERN REGIONCompleted Depth: 166 (Measurable)Date: Started 12/12/03 Completed 12/15/03

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 Down Right Drilling & Pum Firm No. 637Firm Official [Signature] Date 12-18-03Supervisor or Operator _____ Date _____
(Sign once if Firm Official & Operator)

Date: 12/18/2003 Time: 9:51 AM

IDAHO DEPARTMENT OF WATER RESOURCES WELL DRILLER'S REPORT

767272

51

Office Use Only

Inspected by _____

Twp _____ Rge _____ Sec _____

1/4 1/4 1/4

Lat: : : Long: : :

☐ Pump ☐ Bailer ☒ Air ☐ Flowing Artesian

1. WELL TAG NO. D D0015831
 DRILLING PERMIT NO. _____
 Other IDWR No. _____

2. OWNER:

Name Teresa Svedin
 Address 3333 C S. Powerline Rd.
 City Melba State Id. Zip 83641

3. LOCATION OF WELL by legal description:

Sketch map location must agree with written location.

Twp. 1 North ☒ or South ☐

Rge. 2 East ☐ or West ☒

Sec. 2 1/4 SE 1/4 NE 1/4

Gov't Lot _____ County Canyon

Lat: : : Long: : :

Address of Well Site 5725 5th Ave. Bowmont
 City Nampa

(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	7	Overbore

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

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
6"	2	171	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:

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

11. WELL TESTS:

Yield gal/min.	Drawdown	Pumping Level	Time
75	10	85	2

Water Temp. _____ Bottom hole temp. _____
 Water Quality test or comments: **5.8 Nitrates**

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

Bore Dia	From	To	Remarks: Lithology, Water Quality & Temperature	Y	N
10"	0	8	Hard Brown Clay		No
10"	8	19	Black Lava Rock		NO
8"	19	35	Black Lava		No
8"	35	45	Broken Lava		No
8"	45	78	Hard Brown Clay		No
8"	78	170	Black Lava/Cracks		Yes
8"	170	175	Broken Lava		Yes

Completed _____ Depth 171' (Measurable)
 Date: Started 10/19/00 Completed 10/23/00

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 Can-Ada Well & Pump Firm No. 304

Firm Official Earl Skinner Date 10/31/00
 and _____
 Driller or Operator _____ Date 10/31/00

(Sign once if Firm Official & Operator)

IDAHO DEPARTMENT OF WATER RESOURCES WELL DRILLER'S REPORT

770053 53

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

1. WELL TAG NO. D D0018570
DRILLING PERMIT NO. _____
Other IDWR No. _____

2. OWNER:
Name Shawn Whitehead
Address 5530 Diamnod Rdg
City Nampa State ID Zip 83686

3. LOCATION OF WELL by legal description:

Sketch map location must agree with written location.

N
W
S
E
Twp. 1 North ☒ or South ☐
Rge. 2 East ☐ or West ☒
Sec. 2 1/4 NE 1/4 SE 1/4
Gov't Lot _____ County Canyon
Lat: _____ Long: _____

7109 Hacienda

Nampa

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

Lt. _____ Bk. _____ Sub. Name _____

4. USE:

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

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

☒ New Well ☐ Modify ☐ Abandonment ☐ Other _____

6. DRILL METHOD

☒ Rotary ☐ Cable ☐ Mud Rotary ☐ Other _____

7. SEALING PROCEDURES

SEAL/FILTER PACK		AMOUNT		METHOD
Material	From	To	Sacks or Pounds	
Bentonite	0	18	7	Overbore

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

Was drive shoe seal tested? ☒ N How? Pressure

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
6"	1	19	250	Steel	☒	☐	☒	☐

Length of Headpipe _____ Length of Tailpipe _____

9. PERFORATIONS/SCREENS

☒ Perforations Method Saw
Screens Screen Type PVC

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
155	165	1/4"	10'	4.5	PVC	☐	☐

10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

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

11. WELL TESTS:

☐ Pump ☐ Bailor ☒ Air ☐ Flowing Artesian

Yield gal min	Drawdown	Pumping Level	Time
60	20	140	1

Water Temp. 58 Bottom hole temp. _____

Water Quality test or comments: _____

12. LITHOLOGIC LOG: (Describe repairs or abandonment)

Bore Dia.	From	To	Remarks: Lithology, Water Quality & Temperature	Y	N
10"	1	2	Topsoil	No	No
10"	2	7	Dry Clay	No	No
10"	7	19	Black Lava	No	No
8"	19	35	Black Lava	No	No
6"	35	38	Black Lava/cracks	No	No
6"	38	46	Solid Black Lava	No	No
6"	46	49	Red Lava	No	No
6"	49	65	Black Lava Rock	No	No
6"	65	75	Soft Brown rock	No	No
6"	75	120	Black Lava/cracks	Yes	Yes
6"	120	128	Black Lava/cracks	No	No
6"	128	140	Black Lava	Yes	Yes
6"	140	145	Black Lava/Cracks	No	No
6"	145	152	Solid Black Lava	Yes	Yes
6"	152	165	Red Cinders		

RECEIVED

AUG 21 2001

WATER RESOURCES
WESTERN REGION

RECEIVED

SEP 13 2001

Department of Water Resources

Completed Depth 165' (Measurable)
Date: Started 7/20/01 Completed 7/24/01

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 Can-Ada Well & Pump Firm No. 304

Firm Official Earl Skinner Date 8/2/01

and Larry Hachett Date 8/2/01
(Sign once if Firm Official & Operator)

870282-773847
IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

Office Use Only **54**
 Inspected by _____
 Twp _____ Rge _____ Sec _____
 _____ 1/4 _____ 1/4 _____ 1/4
 Lat: : : Long: : :

1. WELL TAG NO. D 0019619
 DRILLING PERMIT NO. _____
 Other IDWR No. _____

2. OWNER:

Name Shawn Whitehead Const
Address 5530 Diamond Ridge Way
City Nampa State ID Zip 83686

3. LOCATION OF WELL by legal description:

Sketch map location must agree with written location.



Twp. 1 North ☒ or South ☐
 Rge. 2 East ☐ or West ☒
 Sec. 2 NE $\frac{1}{4}$ SE $\frac{1}{4}$ SW $\frac{1}{4}$ NW $\frac{1}{4}$
 Gov't Lot _____ 10 acres _____ 10 acres _____ 160 acres
 County Canyon
 Lat. : : Long. :
 Address of Well Site 7049 Hacienda
 City Alampa
 (Give at least name of road or distance to Road or Landmark)
why

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	59	1850*	overbare	

Was drive shoe used? ☒ Y ☐ N Shoe Depth(s) 59'

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

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
6"	12	54	250	Steel	☒	☐	☒	☐
					☐	☐	☐	☐
4.5"	30	130		PVC	☐	☒	☐	☒

Length of Headpipe _____ Length of Tailpipe _____

9. PERFORATIONS/SCREENS

Perforations _____ Method _____
Screens _____ Screen Type PVC

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
130	190	.020		4.5"	PVC	☐	☐
						☐	☐
						☐	☐

10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

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

11. WELL TESTS:

☐ Pump ☐ Bailer ☐ Air Fowing Artesian

Yield gal/min	Drawdown	Pumping Level	Time
100			1 hour

Water Temp. _____ Bottom hole temp. _____

Water Quality test or comments: _____

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

[illegible]

Completed Depth 190' (Measurable)
Date: Started 2.21.02 Completed 2.22.02

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 ABC Well Drilling Firm No. 621

Firm Official Andy Payne Date 2.25.02
and

Driller or Operator Ar. Wy PAULS Date 2.25.02

(Sign once if Firm Official & Operator)

IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

770126
Office Use Only
Inspected by _____
Twp _____ Rge _____ Sec _____
_____ 1/4 _____ 1/4 _____ 1/4
Lat: : : Long: : :

1. WELL TAG NO. D 0018654
 DRILLING PERMIT NO. _____
 Other IDWR No. _____

2. OWNER: Chris Collect
Name
Address 1000 Holly #1
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. 2 East ☐ or West ☒
 Sec. 2 NE 1/4 SE 1/4 1/4
 Gov't Lot _____ County Canyon 10 acres 40 acres 160 acres
 Lat. : : Long. : :
 Address of Well Site 7034 Haselenda
Way City Nampa
 (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	71	1850#	overbore

Was drive shoe used? ☒ Y ☐ N Shoe Depth(s) 65'

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

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
6"	+2	65	250	Steel	☒	☐	☒	☐
					☐	☐	☐	☐
4.5"	30	110		PVC	☐	☒	☐	☐

Length of Headpipe _____ Length of Tailpipe _____

9. PERFORATIONS/SCREENS

Perforations _____ Method _____
Screens _____ Screen Type PVC

From	To	Slot Size	Number	Diameter	Material	Casing	Line
110	170	.020		4.5	PVC	☐	☐
						☐	☐
						☐	☐

10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

102 ft. below ground Artesian pressure _____ lb.
Depth flow encountered _____ ft. Describe access port or
control devices: 1x800 cap

11. WELL TESTS:

☐ Pump ☐ Bailer ☒ Air ☐ Flowing Artesian

Yield gal./min.	Drawdown	Pumping Level	Time
last returns			

Water Temp. _____ Bottom hole temp. _____

Water Quality test or comments: _____

Depth first Water Encounter

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

[illegible]

Completed Depth 170' (Measurable)
Date: Started 7-23-01 Completed 7-24-01

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 ABC Well Drilling Firm No. 621
Firm Official [Signature] Date 7.24.01
and
Driller or Operator ANDY PRYNE Date 7.24.01
(Sign once if Firm Official & Operator)

1. DRILLING PERMIT NO. 63-95W-0071-0000
Other IDWR No. _____

2. OWNER: RON DIDD
Name 5370 TRACK ROAD
Address MELBA State ID Zip 83641
City

3. LOCATION OF WELL by legal description:

Sketch map location must agree with written location.

Twp. 1 North ☒ or South ☐
 Rge. 2 East ☐ or West ☒
 Sec. 2 $\frac{1}{4}$ NW $\frac{1}{4}$ SE $\frac{1}{4}$
 Gov't Lot _____ County _____

Address of Well Site SAME
City SAME

Lt. _____ Blk. _____ Sub. Name _____

4. PROPOSED USE:

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

5. TYPE OF WORK

☒ New Well ☐ Modify or Repair ☐ Replacement ☐ Abandonment

6. DRILL METHOD

☐ Mud Rotary ☒ Air Rotary ☐ Cable ☐ Other_____

7. SEALING PROCEDURES

SEAL/FILTER PACK			AMOUNT	METHOD
Material	From	To	Sacks or Pounds	
BENTONITE	0	20+	100 #	

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	88	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:

105 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

Water Temp. _____ Bottom hole temp. _____

Water Quality test or comments: _____

12. LITHOLOGIC LOG: (Describe repairs or abandonment)

Water

[illegible]

Completed Depth 161 (Measurable)
Date: Started 2-20-95 Completed 3-20-95

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 DAVIS WELL DRILLING Firm No. 101

Firm Official Chuck Davis Date 4-13-95

and _____
Supervisor or Operator _____ Date _____

(Sign once if Firm Official & Operator)

4981.8

58

1. DRILLING PERMIT NO. 63-95W-0072-000
Other IDWR No. 63-W-0715-001

2. OWNER: Ron Depp
Name
Address 5370 TRACK ROAD
City MELBA State ID Zip 83641

3. LOCATION OF WELL by legal description:

Sketch map location must agree with written location.



Twp. 1 North ☒ or South ☐
 Rge. 2 East ☐ or West ☒
 Sec. 2 $\frac{1}{4}$ NW $\frac{1}{4}$ SE $\frac{1}{4}$
 Gov't Lot _____ County _____

Same

Address of Well Site SAME
City SAME

Lt. _____ Blk. _____ Sub. Name _____

4. PROPOSED USE:

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

5. TYPE OF WORK

☒ New Well ☐ Modify or Repair ☐ Replacement ☐ Abandonment

6. DRILL METHOD

☐ Mud Rotary ☒ Air Rotary ☐ Cable ☐ Other _____

7. SEALING PROCEDURES

SEAL/FILTER PACK			AMOUNT	METHOD
Material	From	To	Sacks or Pounds	
BENTONITE	0	20	50 #	

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	18	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:

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

Water Temp. _____ Bottom hole temp. _____

Water Quality test or comments:

12. LITHOLOGIC LOG: (Describe repairs or abandonment)

Water

[illegible]

Completed Depth 60' (Measurable)
Date: Started 2-21-95 Completed 2-21-95

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 DAVIS WELL DRILLING Firm No. 101

Firm Official Chuck Klavins Date 4-13-95

and _____
Supervisor or Operator Date

(Sign once if Firm Official & Operator)

ADMINISTRATOR'S MEMORANDUM

To: Water Management Division

From: Norman C. Young *NCY*

APPLICATION PROCESSING
No. 59

RE: PROCESSING OF APPLICATIONS TO APPROPRIATE WATER IN
THE LOWER BOISE RIVER BASIN (BASIN 63)

Date: June 20, 1996

On May 5, 1995, Director Higginson issued an Amended Moratorium Order which removed the moratorium on processing most applications for new appropriations of public water proposing a consumptive use in the Boise River Basin. As a result of the May 5, 1995 Amended Moratorium Order, the department has subsequently approved approximately 80 water right applications proposing irrigation use. The approvals were essentially limited to the use of "drought wells" which were constructed in 1992 under temporary approvals issued by the department.

There are approximately 170 additional applications proposing consumptive ground water use in the Lower Boise River Basin which extends downstream from Lucky Peak Reservoir to the mouth of the Boise River near Parma, Idaho.

During the 1995-1996 legislative session, the legislature appropriated \$300,000 for a study of ground water availability (study) in the Lower Boise River Basin. The appropriation was matched by United Water Idaho to make a total of \$600,000 available for the first year of the study. The study is expected to take approximately five (5) years to complete, although preliminary data concerning water availability is expected to be available within one (1) year.

Within the Boise River Basin two aquifers have been designated as having limited water supplies, i.e. the Boise Front Low Temperature Geothermal Ground Water Management Area and the Southeast Boise Ground Water Management Area.

Even though the moratorium has been lifted by the May 5, 1995, Amended Moratorium Order, the department should withhold approvals of most consumptive use applications in the Lower Boise River Basin until preliminary data from the study is available to be reasonably sure there is sufficient water for appropriation without injury to prior water rights.

Until further instructions are given, the following provisions apply to the processing of applications for ground water in Basin 63 downstream from Lucky Peak Dam:

1. All applications proposing a consumptive use of ground water, whether now pending or filed in the future are to be held without further processing except as herein provided.

2. These instructions do not affect the authorization to continue development of any existing approved application (permit).

3. These instructions do not apply to any application for domestic purposes as such term is defined in Section 42-111, Idaho Code. Applications for ground water permits seeking water for multiple ownership subdivisions or mobile home parks will be processed provided each unit satisfies the definition for the exemption of requirement to file an application for permit as described in said section.

4. These instructions do not apply to any application proposing a non-consumptive use of water as the term is used in Section 42-605A, Idaho Code.

5. These instructions do not apply to applications for drilling permits to replace or deepen existing wells having valid existing water rights nor to applications for transfer of existing water rights.

6. These instructions do not change or affect the administration of any area within the Boise River Basin that has been previously designated as a ground water management area pursuant to Section 42-233b, Idaho Code.

7. These instructions do not prevent the Director from reviewing for approval on a case-by-case basis an application which otherwise would not be processed at this time if,

a) Protection and furtherance of the public interest as determined by the Director, requires immediate consideration and approval of the application;

b) The Director determines that the development and use of the water pursuant to an application will have no effect on prior surface and ground water rights because of its location, insignificant consumption of water or mitigation provided by the applicant to offset injury to other rights.

MEMORANDUM

DATE: February 22, 2008 Amended Application Processing No. 59
TO: Water Management Division
FROM: Gary Spackman *Gay S*
RE: Processing of Applications to Appropriate Water in the Lower Boise River Basin

This memorandum replaces the original Application Processing Memorandum No. 59 issued in 1996.

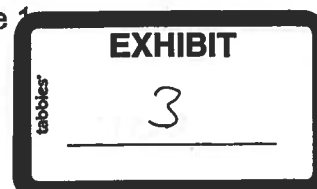
Until further instructions are given, the following provisions apply to the processing of applications to appropriate water in the Boise River Basin (Administrative Basin 63) downstream from Lucky Peak dam.¹

1. Surface water in the Boise River or tributary to the Boise River upstream from Star Bridge is fully appropriated during the irrigation season and during much of the rest of the year. As stated in the May 3, 1995, Amended Moratorium Order for the Boise River drainage:

Applications which propose use of surface water upstream from Star Bridge will be denied unless the applicant files an acceptable plan to mitigate or avoid any material injury to existing water rights.

2. Surface water in the Boise River or tributary to the Boise River downstream from Star Bridge is generally available for appropriation. Applications to appropriate surface water in this reach shall be evaluated on a case-by-case basis in accordance with applicable Idaho law and the Water Appropriation Rules.
3. The map on page 4 depicts an area in which ground water shallower than 200 feet below ground surface is probably tributary to the Boise River upstream from Star Bridge. New applications for consumptive uses of ground water in this area, including applications for municipal purposes, should be held without further processing unless one or more of the following conditions applies:
 - A. The applicant demonstrates that the holders of water rights to divert from the Boise River will not be injured by the proposed appropriation or the applicant files an acceptable plan to mitigate for a water use that would otherwise cause injury to existing water rights from the Boise River.

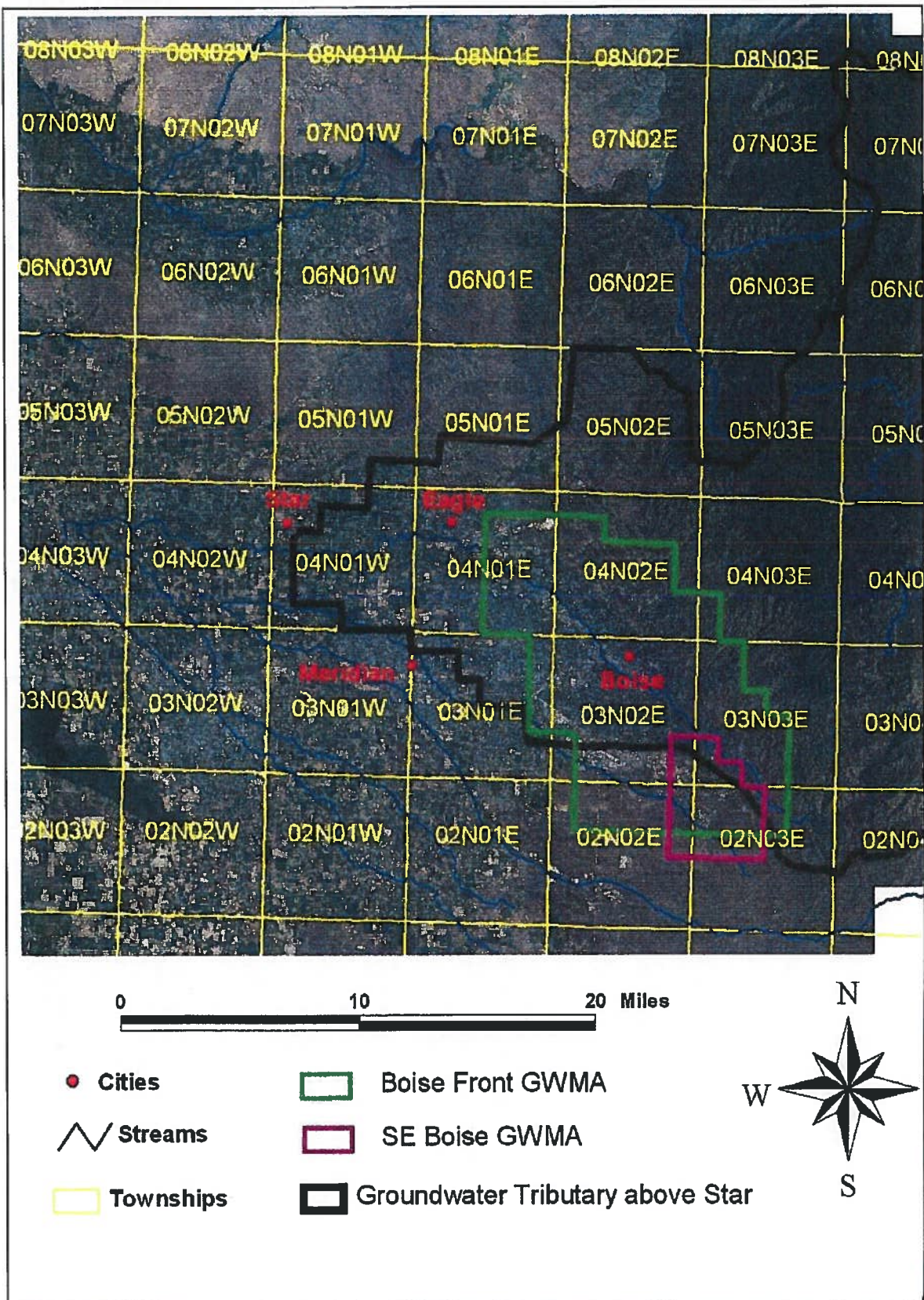
¹ For guidance regarding applications to appropriate water upstream from Lucky Peak Dam, see Application Processing Memorandum No. 13.



- B. The application seeks the appropriation of ground water for domestic purposes as such term is defined in Idaho Code § 42-111.
 - C. The application seeks the appropriation of ground water for multiple ownership subdivisions or mobile home parks in which each unit satisfies the definition for the exemption of requirement to file an application for permit as described in Idaho Code § 42-111.
 - D. The application proposes to appropriate ground water deeper than 200 feet below ground surface. Applications meeting this criterion shall be evaluated on a case-by-case basis in accordance with applicable Idaho law, the Water Appropriation Rules, and the May 3, 1995, Amended Moratorium Order for the Boise River drainage.
- 4. Applications to appropriate ground water outside the area depicted in the attached map shall be evaluated on a case-by-case basis in accordance with applicable Idaho law, the Water Appropriation Rules, and the May 3, 1995, Amended Moratorium Order for the Boise River drainage.
 - 5. The May 3, 1995, Amended Moratorium Order for the Boise River drainage states that the advertisement for each ground water application shall include the proposed depth interval from which the applicant wants to withdraw water. IDWR will adhere to this advertising directive. However, the depth interval shall be required in the conditions of approval for permits only within the area where ground water shallower than 200 feet below ground surface is tributary to the Boise River, as shown on the attached map, or when otherwise deemed necessary by IDWR on a case-by-case basis. In the area where ground water shallower than 200 feet below ground surface is tributary to the Boise River, the depth interval shall be included in the conditions of approval for each ground water permit, regardless of whether the proposed depth is more or less than 200 feet below ground surface.
 - 6. IDWR has established two ground water management areas, the Boise Front GWMA and the Southeast Boise GWMA, in the Boise River Basin. (See the map on page 4.) These instructions do not change, affect, or override instructions or management plans issued for the administration of water within any Ground Water Management Area or Critical Groundwater Area that is designated or may be designated within the Boise River Basin.
 - 7. These instructions do not prevent the Director from reviewing for approval on a case-by-case basis an application which otherwise would not be processed and/or approved at this time if:
 - A. The public interest, as determined by the Director, requires immediate consideration of approval of the application, or

- B. The Director determines that the development and use of the water pursuant to an application will have no effect on prior surface and ground water rights because of its location, insignificant consumption of water, or mitigation provided by the applicant to offset injury to other rights.
8. Applications being held pursuant to the previous version of this memorandum shall be processed in accordance with this memorandum as time, resources, and competing priorities allow. The "thirty (30) applications for permit per month" limitation in the May 3, 1995, Amended Moratorium Order can be exceeded.

Map Depicting the Area in which Ground Water Shallower than 200 Feet Below Ground Surface is Tributary to the Boise River Upstream from Star Bridge.



MEMO

State of Idaho

Department of Water Resources

322 E Front Street, P.O. Box 83720, Boise, Idaho 83720-0098

Phone: (208) 287-4800 Fax: (208) 287-6700

Date: December 29, 2015
To: Nick Miller
From: Dennis Owsley
cc: Sean Vincent and Ken Neely

Subject: Review of water availability in southern Ada and Canyon Counties

Introduction

Per your request, a review of the status of the ground water levels in the southern Ada and Canyon Counties has been conducted. The review was conducted based on water level monitoring data in response to an increase in the number of water right applications and transfers sought in the area. The area of interest includes the southern portions of Ada and Canyon Counties (Figure 1). Although no official boundaries have been identified to define the study area, the general area of interest includes the portion of the Treasure Valley between the New York Canal and the Snake River to the west and south. The area of interest extends to the Basin 63/Basin 61 boundary between Boise and Mountain Home to the east and to the Southeast Boise Ground Water Management area to the northeast.

Hydrogeology

The geology of the area consists primarily of sedimentary units of the Idaho Group capped by basalt flows (Ralston and Chapman, 1970). The area has undergone significant faulting and both northeast and northwest trending faults are present (Otto and Wylie, 2003). Fault zones impact water temperatures by providing a conduit for geothermal water to flow upward into the overlying cold water aquifer within the Idaho Group (Mitchell, 1981).

Minor amounts of ground water can be encountered within the basalt flows, but the primary aquifer of the area lies within the sedimentary units of the Idaho Group. Primary sources of recharge to the cold water aquifer are irrigation leakage (canal seepage and flood irrigation) and geothermal input (Otto and Wylie, 2003).

EXHIBIT

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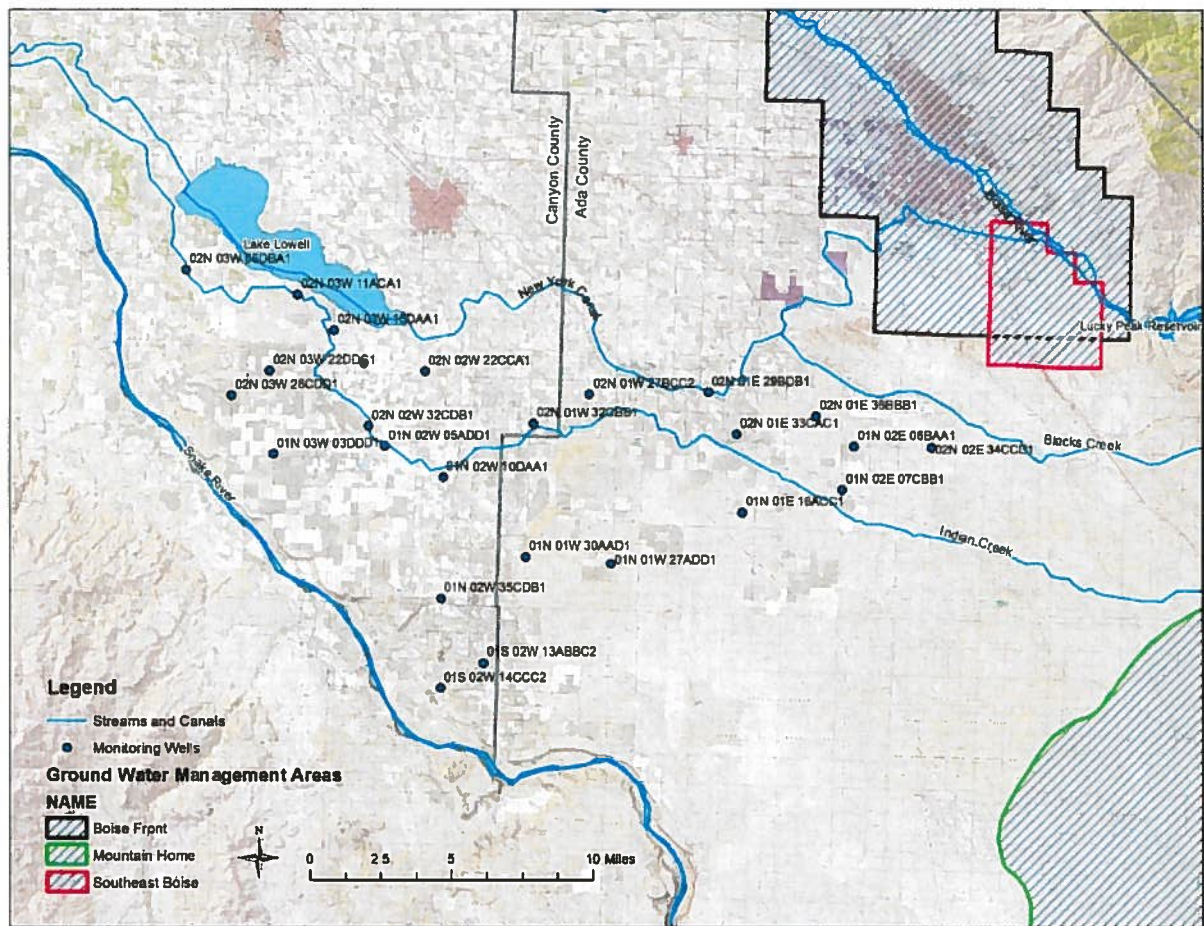


Figure 1. Map of the study area

Depth to water in study area wells ranges from approximately 50 to over 450 feet below ground surface, depending on the location and depth of the well. Ground water flow direction in the study area is generally to the south/southwest, towards the Snake River (Figure 2). Based on well driller's reports in the area, well production rates range from 10 to over 3,000 gallons per minute (gpm). Transmissivity estimates based upon analysis of specific capacity data range from approximately 1,000 ft²/day to 250,000 ft²/day.

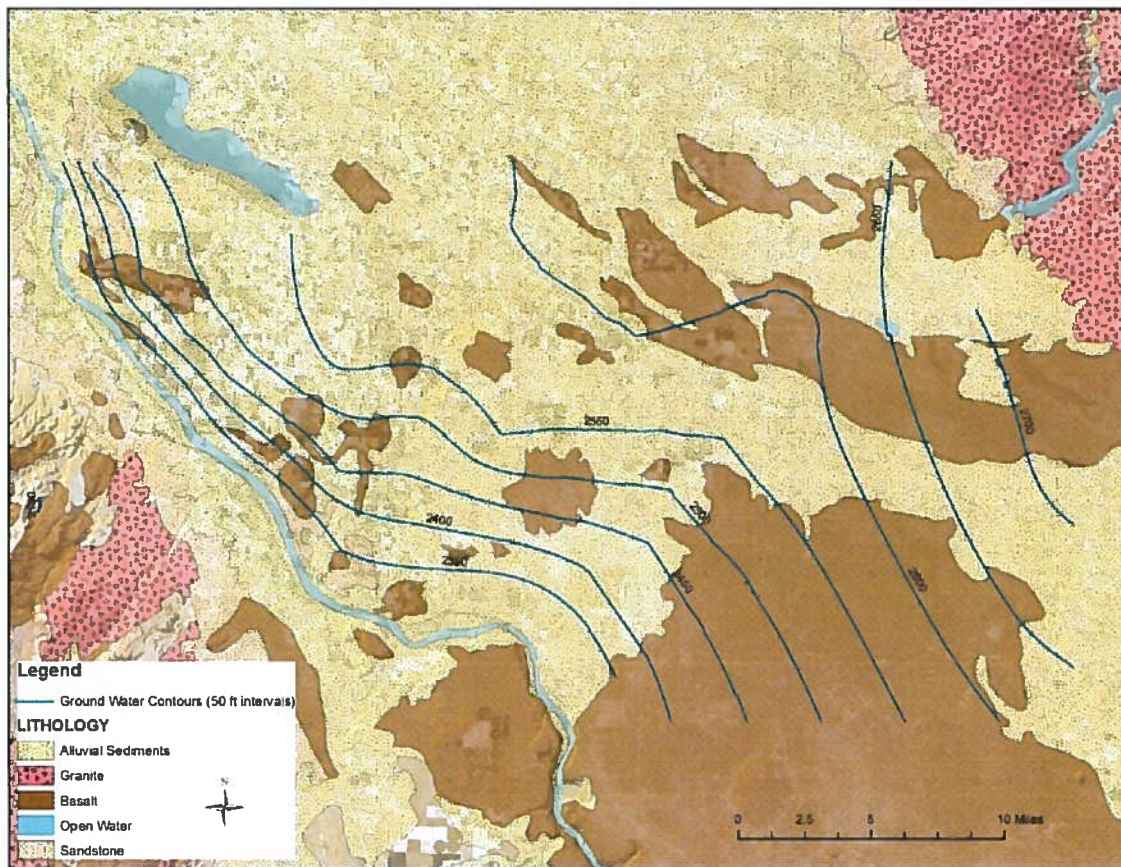


Figure 2. Generalized geologic map with ground water flow contours.

Analysis of Ground Water Conditions

IDWR maintains a ground water level monitoring network in the area that consists of 25 spatially distributed wells of various depths. Water level data from a few of the observation points dates back to the 1960's (Table 1). Trend analysis of all of the available data indicates that water levels have historically risen in 10 wells, declined in 14 wells, and one well displayed neither a rise nor decline (Figure 3). Rates of increase appear to be the highest in wells south of Lake Lowell (approximately 3 feet per year) and rates of decline are most notable in the southeast and eastern portion of the study area (approximately 0.6 feet per year).

Table 1. Summary table of water level data

WellNumber	Rate of Water Level Change (ft/year)	Timeframe	2010-2015 Water Level Change (total feet of change)	2004-2014 Water Level Change (total feet of change)	1976-2014 Water Level Change (total feet of change)
01N 01E 16ACC1	-0.33	1996-2015	-0.86	2.02	
01N 01W 27ADD1	-0.18	1976-2015	0.4	2.02	-9.2
01N 01W 30AAD1	-0.07	1976-2015	4.24		
01N 02E 06BAA1	-0.69	1996-2010			
01N 02E 07CBB1	-0.29	1976-2014			-12.29
01N 02W 05ADD1	-0.14	1967-2015	5.38	6.53	-0.4
01N 02W 10DAA1	0.146	1996-2015	1.15	0.97	
01N 02W 35CDB1	0.219	1998-2013			
01N 03W 03DDD1	2.77	1989-2015	23.23	42.8	
01S 02W 13ABBC2	-0.511	1997-2015	0.13	-11.32	
01S 02W 14CCC2	-0.0365	1962-2015	-0.34	-1.14	
02N 01E 29BDB1	-0.365	1997-2015	0.29	-1.15	
02N 01E 33CAC1	0.438	1970-2014		-1.64	-13.25
02N 01E 36BBB1	-0.365	1969-2015	-0.24	-1.75	-13.16
02N 01W 27BCC2	0.146	2001-2015	0.51	1.8	
02N 01W 32CBB1	0.0365	1996-2015	0.32	-0.04	
02N 02E 34CCD1	-0.3285	1976-2015	-0.51	-3.22	-10.78
02N 02W 20CBBC2	0.365	2004-2015	0.18	-4.23	
02N 02W 22CCA1	-0.0365	1996-2015	-0.69	-2.17	
02N 02W 32CDB1	0	1969-2015	4.28	4.06	
02N 03W 06DBA1	-0.0165	1996-2014	-0.27	7.84	
02N 03W 11ACA1	0.1835	1995-2014	-1.7	2.05	
02N 03W 13DAA1	0.219	2005-2014	-1.92		
02N 03W 22DDC1	-1.2	1967-2014	2.62		-42.94
02N 03W 28CDD1	2.95	2005-2014	19.98		

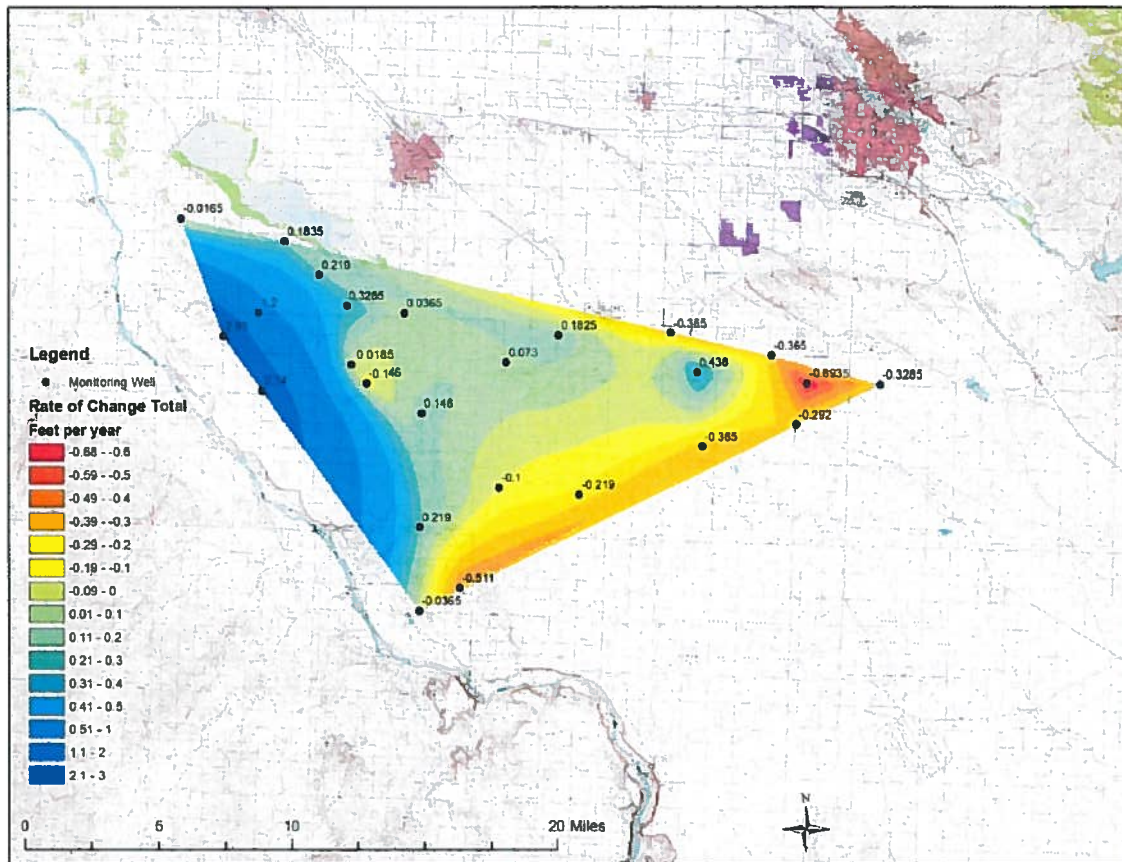


Figure 3. Map showing water level rate of change in feet per year.

Only a few wells exist with historic data dating back to the 1970's. An analysis of the data from these wells indicates all of the wells in the study area with data dating back this far have declined over time (Figure 4). Declines range from approximately 10 feet in the area south and east of Kuna to over 40 feet in the area south of Lake Lowell.

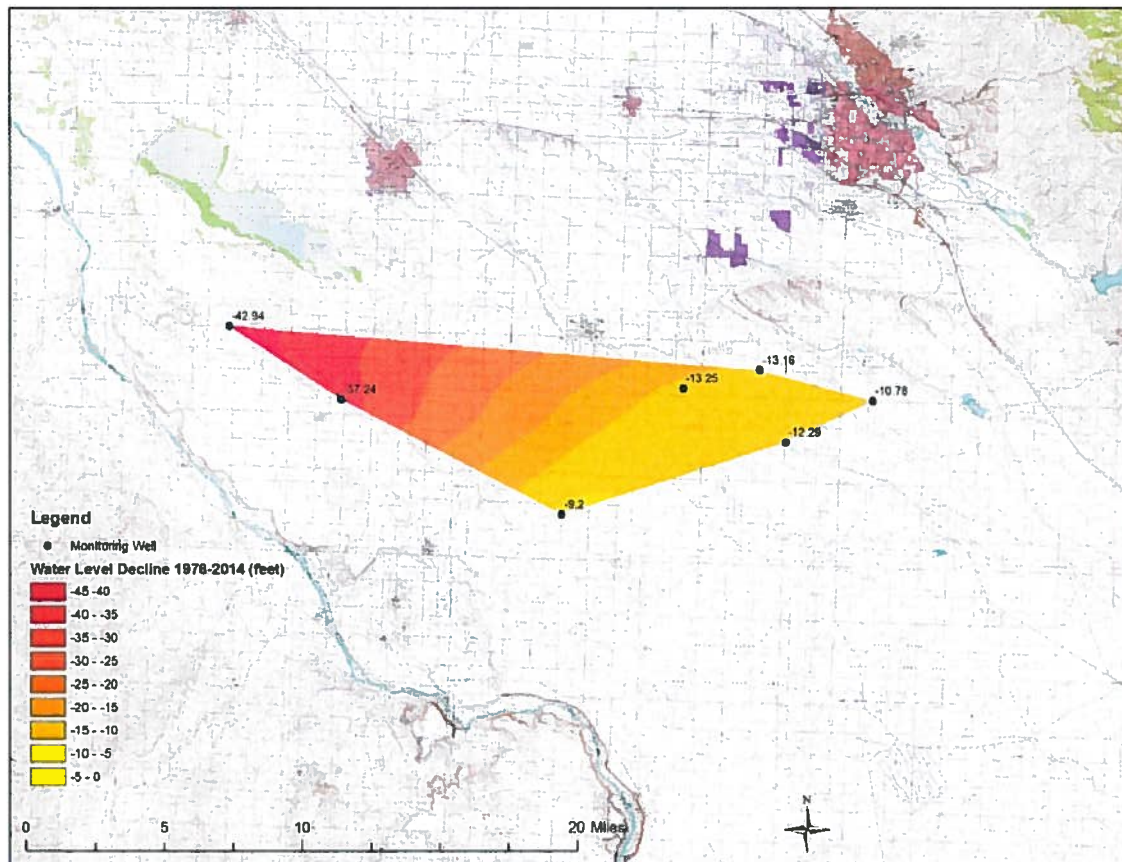


Figure 4. Water level change map from 1976-2014.

An analysis of the past decade of water level data indicated that wells were evenly distributed with rising or declining water levels ranging from increases of over 40 feet to declines exceeding 11 feet between 2004 and 2014 (Figure 5). Water levels in the western portion of the study area showed the highest water level changes and the southern portion of the study area showed the largest declines. Two wells to the southeast of Lake Lowell indicated declining water levels.

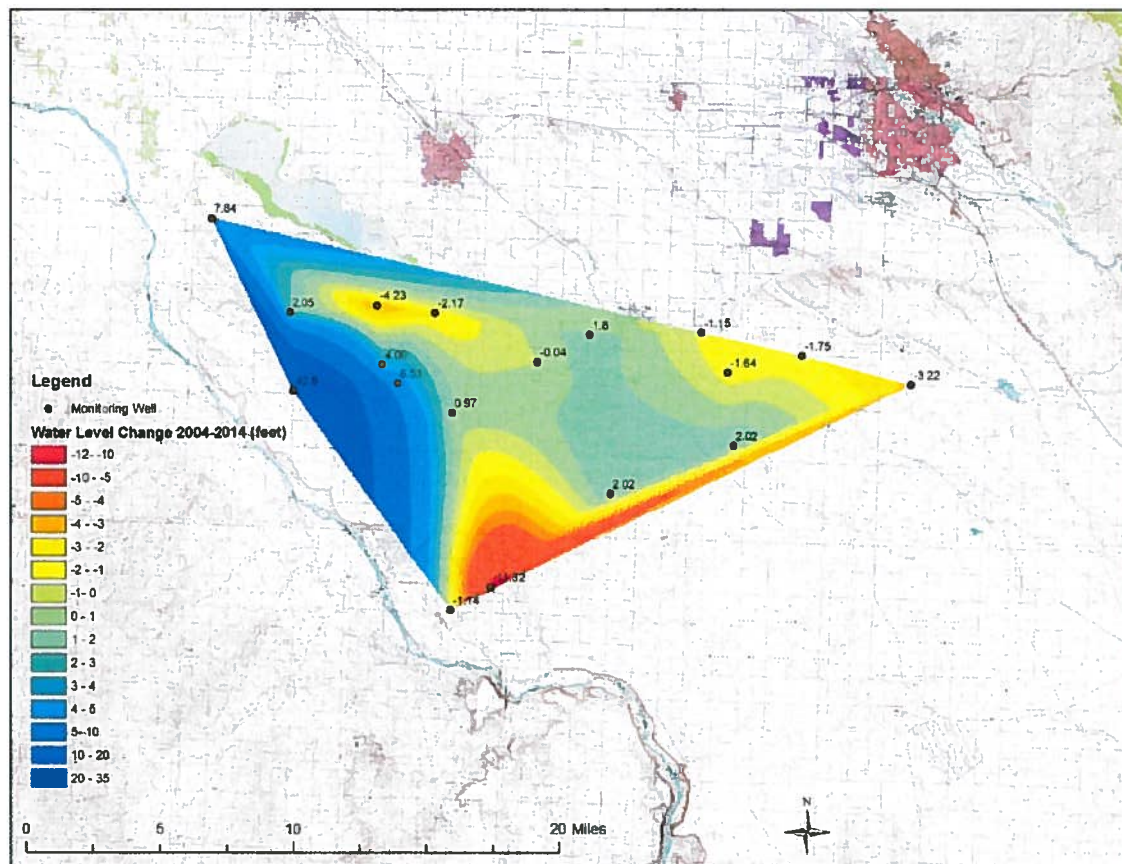


Figure 5. Water level change map in total feet of change 2004-2014.

Recent water levels (2010-2015) show eight wells with declines and 13 wells with rising water levels. Changes in water levels range from increases of over 20 feet in the western portion of the study area to a decline of approximately two feet in well just south of Lake Lowell (Figure 6). In general, most of the wells with declining water levels for this time frame were southeast of Lake Lowell, east of Kuna and in the southern portion of the study area.

A review of the hydrographs included in the Appendix further illustrates the water level changes depicted over time in this memo. Despite significant declines in the 1970's and 1980's, water levels in the western portion of the study area appear to be stable or rising based on the past decade of data. Water levels in the eastern and southern portion of the study area and the area just south of Lake Lowell continue to experience water level declines at rates of decline less than 0.3 feet per year.

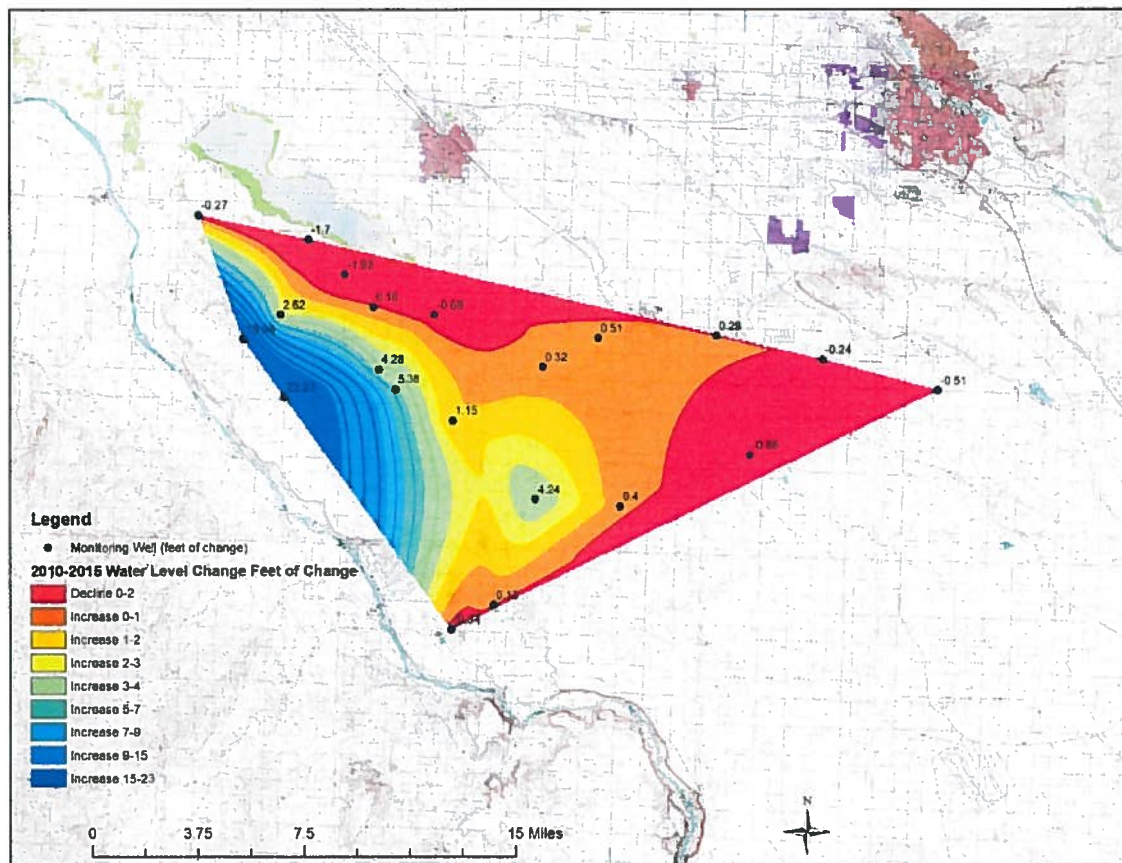


Figure 6. Water level change map 2010-2015.

Conclusions

In conclusion, the areas with declining water levels are indicative of a stressed aquifer system that has not reached equilibrium with the current recharge and pumping rates. However, there appear to be areas that show stable or increasing water levels, suggesting recharge rates are equal to or exceeding the pumping rates. If water right applications and transfers are to be approved in the areas of stable or increasing water levels, it is recommended that some form of water level monitoring be included in the permit conditions to further monitor the water resources in the area. Additional allocation of water in the areas that have shown and continue to show declining water levels would likely result in an increase of the rate of water level declines. At this time, the data does not support or warrant the development of a ground water management area.

References

- Mittchell, J. C., 1981. Geological, Hydrological, Geochemical and Geophysical Investigations of the Nampa Caldwell and Adjacent Areas, Southwestern Idaho. Water Information Bulletin No. 30, Geothermal Investigations in Idaho, Part 11. Idaho Department of Water Resources.
- Otto, B.R., and Wylie, A.H., 2003. Hydrogeologic analysis of water supply for the city of Greenleaf, Canyon County Idaho. Idaho Water Resources Research Institute Research Report.
- Ralston, D.R. and Chapman, S.L., 1970. Ground-Water Resource of Southern Ada and Western Elmore Counties, Idaho. Water Information Bulletin No.15, Idaho Department of Reclamation.

APPENDIX – WELL HYDROGRAPHS

