



CANYON COUNTY SOLID WASTE

15500 MISSOURI AVENUE
NAMPA, IDAHO 83686

April 5, 2020

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

RECEIVED

APR 07 2020

**WATER RESOURCES
WESTERN REGION**

RE: Application for Permit 63-34858

Dear Mr. Nick Miller:

Canyon County has applied for a new water right (application 63-34858) for commercial purposes, which includes dust control and emergency fire suppression for Pickles Butte Sanitary Landfill (PBSL). The proposed point of discharge (Well ID #298341, water right ID 63-21870) was recently acquired by Canyon County, as part of a land purchase agreement. The water rights associated with the land transfer is for domestic use, which has been transferred to Canyon County. After submitting the application for commercial use, Canyon County received a letter from IDWR dated February 21, 2020 requesting clarification. The letter provided a list of criteria used by IDWR for the evaluation of new water rights based on Idaho Code Section 42-203A. The criteria listed include:

1. Will the new appropriation injure existing water rights?
2. Is the water supply sufficient for the purpose for which it is sought?
3. Is the application made in good faith or for delay or for speculation?
4. Does the applicant have sufficient financial resources to complete the project?
5. Will the proposed use conflict with the local public interest, where local public interest is defined as interest that the people in the area directly affected by the proposed water use have in the effects of such use on the public water resource?
6. Will the proposed use be contrary to the conservation of water resources within the State of Idaho?

Please find the below information that addresses items 4, 5, and 6 of the criteria listed above to support the water rights application. Items 1, 2, and 3 will be addressed by Maureen McGraw, Ph.D.PE, Senior Hydrologist/Civil Engineer with Tetra Tech, which is the Pickles Butte Sanitary Landfill (PBSL) contract third party engineer (Attachment 1).

PICKLES BUTTE SANITARY LANDFILL

Tele 208-466-7288 Fax 208-466-7296 email dloper@canyonco.org

Criteria #4. Does the applicant have sufficient financial resources to complete the project?

The Pickles Butte Sanitary Landfills projected revenue for FY20 is approximately 5.9 million dollars with projected total FY20 expenses of 5.5 million dollars. The landfill budget is an Enterprise fund managed by Canyon County. There is no general fund or tax dollars budgeted for landfill operations. The landfill is a fee for service structure and rates can be adjusted upward or downward to meet revenue and expense needs. The landfill also has about 18 million dollars in a reserve account for final closure and other operational needs, future expansion and infrastructure needs such as this water permit application. Please find the Financial Assurance letter and Statement of Net Position (Attachment 2).

Criteria #5. Will the proposed use conflict with the local public interest, where local public interest is defined as interest that the people in the area directly affected by the proposed water use have in the effects of such use on the public water resource?

Canyon County operates the Pickles Butte Sanitary Landfill. The landfill is an important resource that provides sanitary garbage disposal and helps drive economic activity in the region. Without this resource, sanitary garbage disposal, economic activity would be adversely affected, and jobs lost. In order to operate, the landfill must comply with an air quality permit issued by the Idaho Department of Environmental Quality (IDEQ). One of the requirements of that permit is that dust levels be controlled through water application. In the past, access to surface water (available during the driest and hottest part of the year) has been sufficient to control dust. However, with increased use of the landfill and dryer weather patterns, supplemental water is needed to properly control dust when surface water is not available. The amount of supplemental water required is insignificant and will not affect senior water users due to low amount needed and the fact that the supplemental water will be used almost exclusively during times of the year when water is not used or needed for irrigation purposes. Even if this use of water had an insignificant effect on senior rights, those small effects could be easily mitigated. In short, this proposed water use benefits the public at large without affecting senior water rights. Additionally, the proposed water right would have no adverse impacts on recreation, fish or wildlife resources.

Criteria #6. Will the proposed use be contrary to the conservation of water resources within the State of Idaho?

To meet the criteria for beneficial use, PBSL will schedule a field verification visit with IDWR to document the beneficial use in a field report as specified under IDAPA 37.03.02. This will be conducted after administrative approval and completion of the development phase of the project.

With the information provided above, the letter addressing Criteria, 1, 2, and 3 dated, March 30, 2020 from Tetra Tech and the February 21, 2020, letter addressing financial assurance/statement of net position, Canyon County believes the new water right application #63-34858 should be approved.

Application for Permit 63-34858

Page 3.

If you have questions, or would like more information, please reach me via email: dloper@canyonco.org

Sincerely,

A handwritten signature in black ink, appearing to read "David M. Loper", followed by a long horizontal flourish.

David M. Loper, REHS/RS
Director, Canyon County Solid Waste

Attachment 1: March 30, 2020 letter from Tetra Tech addressing criteria 1, 2, and 3.

Attachment 2: Financial Assurance letter and Statement of Net Position



April 3, 2020

Mr. David Loper
Canyon County Solid Waste Director
15500 Missouri Avenue
Nampa, Idaho 83686

RE: Water Rights Application for Permit 63-34858

Dear Mr. Loper:

Tetra Tech has reviewed the letter Canyon County received from the Idaho Department of Water Resources (IDWR) dated February 21, 2020 that requested clarification for the water rights application for Well ID #298341 (water right ID 63-21870). The letter provided a list of criteria used by IDWR for the evaluation of new water rights based on Idaho Code Section 42-203A. The criteria listed include:

1. Will the new appropriation injure existing water rights?
2. Is the water supply sufficient for the purpose for which it is sought?
3. Is the application made in good faith or for delay or for speculation?
4. Does the applicant have sufficient financial resources to complete the project?
5. Will the proposed use conflict with the local public interest, where local public interest is defined as interest that the people in the area directly affected by the proposed water use have in the effects of such use on the public water resource?
6. Will the proposed use be contrary to the conservation of water resources within the State of Idaho?

This letter addresses items 1, 2, and 3 of the criteria listed above to support the water rights application. This letter also includes background information on the geology in the area of interest near PBSL to help facilitate the evaluation.

Background Geology

PBSL is located in the western portion of the Snake River Plain. The Snake River Plain is a broad structural depression that extends across southern Idaho in a northwesterly/southeasterly direction. The center of the plain dropped several thousand feet relative to the margins due to faults (Swirydzuk et. al., 1982). The basin created by the faulting has been filled over the past several million years by igneous rocks, lacustrine (lake deposited) and fluvial (river deposited) sediments to depth potentially greater than 20,000 feet (Mabey 1982).

A relatively thin layer of basalt belonging to the Bruneau Formation is present on the top of Pickles Butte and on parts of the upper rim of Deadhorse Canyon north of the Landfill. The basalt overlies the Tuana Gravel formation consisting of sand and gravel. The Tuana Gravel is present at PBSL area only on the upper part of Pickles Butte and in the northeastern rim of Deadhorse Canyon and near the southern edge of the active landfill area.

The majority of the geologic materials exposed at PBSL is the Upper Glens Ferry Formation, a primarily sand and silt unit that generally becomes finer-grained and more consolidated or indurated with increasing depth. The formation ranges from poorly to well sorted, from very fine grained to coarse grained, and having little or no consolidated structure to a well-lithified sandstone. The lower depth of the formation consists primarily of siltstone or claystone (Tetra Tech, 2015).

A laterally extensive confining layer in the Glens Ferry Formation is present beneath PBSL and surrounding area. Depths of the confining layer range from 150 to 500 feet bgs, is hundreds of feet thick, and extends across

Tetra Tech

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the entire landfill and surrounding area. The transition between the confining layer and the sediments above it has been described as “abrupt.” Its presence across the area is well-defined and generally described as a siltstone or claystone on lithologic logs. Contained within the layer is a boundary at which sediments below were deposited in an anoxic state and characterized by blue green or blue grey coloring.

Groundwater conditions across the area near PBSL are somewhat variable. There are three water bearing zones that have been identified in multiple reports. They are referred to as Upper Aquifer (UA), Middle Aquifer (MA), and Bottom Aquifer (BA) by Holladay (1994) and by DBS&A (2014) as uppermost-unconfined aquifer or unconfined aquifer, middle confined aquifer or confined aquifer, and bottom aquifer. Based on a review of available well logs, the approximate elevation of the water bearing zones of interest for adverse impacts and the names used to reference them in this letter are:

- An upper-unconfined aquifer: elevation range of 2,745 to 2,560 feet msl,
- A middle-confined aquifer: elevation range of 2,312 to 2,079 feet msl, and
- A bottom-confined aquifer: elevation range of 2,067 to 1,635 feet msl.

These elevations will be used to evaluate whether the proposed point of discharge is located within the same water bearing zone as existing water rights. Elevations for ground surface to determine the elevation of the wells were taken from Google Earth with an approximate accuracy of 30 feet. This potential error in the elevation did not affect the review.

Criteria 1: Will the new appropriation injure existing water rights?

David Loper, the director of PBSL and Maureen McGraw from Tetra Tech met with IDWR staff on March 6, 2020 to determine the best approach for evaluating the impact of the new water rights request on the existing water rights. It was determined that a review of wells within a mile should be conducted, and that the impact (e.g. drawdown) of pumping on existing water rights with a radial distance of ½-mile should be conducted using an analytical solution. Therefore, Tetra Tech used Aqtesolv V4 Pro software and the Theis analytical solution (Theis 1935) for a confined aquifer to project the radial drawdown and well interference from the requested point of diversion on existing water rights. Adverse effects were evaluated by comparing the operational drawdown available for adjacent wells (i.e. existing water rights) and the well interference from the requested point of diversion (well ID #298341).

The well yield listed for the Stewart well (i.e. former owner of Well ID #298341, and proposed point of diversion) based on the well log is 50 to 60 gallons per minute (gpm). The new water rights application requests to utilize the additional water available above what has been approved for domestic use (0.04 cubic feet per second (cfs); 18 gpm) for commercial purposes (e.g. dust suppression and emergency fire suppression). The potentiometric surface in the area reflects pumping for currently approved water allocations. Therefore, based on an average well yield of 55 gpm, this adverse impact analysis evaluates the impact from pumping an additional 37 gpm, which was calculated by taking the well yield (55 gpm) minus the amount approved domestic use (18 gpm).

Tetra Tech inventoried all available well logs and water rights within a 1-mile radius of the well location based on information available on the IDWR website. **Figure 1** shows the wells identified and associated water rights. Not all wells identified in the search had corresponding water rights. The IDWR well database places wells within the quarter section. In the IDWR water rights database, the water rights were not linked to the well numbers. Therefore, the owners name and location were used to correlate the wells and water rights. In general, the locations specified for the water rights were more accurate. Therefore, the location of the water rights was used as the point of diversion and the well locations in **Figure 1** were corrected where needed. As a result, the location of wells as shown in **Figure 1** may differ from what is shown in the IDWR well database. In addition, Google Earth was used to provide verification of wells that were adjusted (i.e. associated with houses for domestic supplies) when possible. A list of all the wells inventoried is provided in **Table 1**, and a copy of the corresponding well log downloaded from the database is included in **Attachment A**. The water rights associated

with these wells are listed in **Table 2**. In some instances, a single point of groundwater diversion (well identification) is associated with multiple water rights.

Inventoried wells within approximately ½-mile (**highlighted with shading in Table 1**) were assessed for potential adverse effects if the well in question is completed in the same water bearing zone as the permit well. Aquifer test data or operational use data is not available for the well of interest (Well ID #298341). The drilling log for a proximal domestic supply well (Helfrich Well ID #297925) was available and contained the necessary information to use as a surrogate. Both wells are completed in the same water bearing zone within the Glenns Ferry Formation and have similar well yield. On the Helfrich Well log it is noted that the well was pumped at 20 gpm with 60 feet of drawdown after 1 hour of pumping (step 1) and pumped at 30 gpm with 95 feet of drawdown after another ½ hour of pumping (step 2). This well yield versus drawdown data is known as specific yield and can be used to estimate aquifer transmissivity using the Theis equation for confined flow. The estimated transmissivity of the aquifer determined from this method is 70 square feet per day (ft²/day). The corresponding hydraulic conductivity was determined by dividing the transmissivity value by the aquifer thickness of the test well (approximately 48 feet). The hydraulic conductivity from the Helfrich domestic supply well transmissivity is estimated to be 1.46 ft/day (5.15E-04 cm/sec) which seems reasonable for a water bearing zone described as alternating sequences of blue clay and gray sandstone and matches the upper range of values from the Pickles Butter Hydrogeologic Characterization Report (DBS&A, 2014). This transmissivity value is conservative (i.e. will result in the maximum drawdown in adjacent wells) relative to the estimated transmissivity of the other wells in the area that were as high as 2,750 ft²/day (**Attachment B**).

Determination of the potential adverse effect was evaluated based on the operating head in the well relative to the total well completion depth or base of the aquifer. The projected well interference induced by pumping from the proposed point of discharge (Well ID #298341) at a continuous rate of 37 gpm over a period of one year was calculated using Aqtesolv V4 Pro software and the Theis analytical solution (Theis 1935). Conducting the analysis at a continuous pumping rate over a year provides a conservative estimate of withdrawal rate and volume because it is unlikely that well will be operated in a continuous manner. The transmissivity value (70 ft²/day) and estimated aquifer thickness (48 feet) at the proposed point of discharge was used to estimate drawdown at radial distances around the pumping well. Aqtesolv cannot represent the heterogeneity of the Glenns Ferry formation, so the low estimate of transmissivity (70 ft²/day) was used for all wells in the forward projection analysis. This projected drawdown amounts to well interference from the proposed point of withdraw on the subject well (i.e. neighboring wells). Results from the potential adverse effects determination are summarized below on a well by well basis for the wells that are located within approximately ½-mile of the proposed point of diversion.

Well ID #297925

Well ID #297925, which is listed as owned by E. Helfrich, is 6-inch diameter domestic supply well with 695 feet of available drawdown determined by taking the well depth (900 feet) minus the static water level (205 feet). This well is located approximately 3,170 feet from the proposed point of discharge (Well ID #298341), and is completed in the Glenns Ferry formation from a water bearing zone with similar elevation depths (1,696 to 1,648 feet amsl) to the permit well (1,640 to 1,635 feet amsl). It has similar lithology to other deep wells in the area.

Based on the forward analysis, the projected well interference from an increased withdrawal rate at the proposed point of discharge (Well ID #298341) after 1 year of continuous pumping would be approximately 17 feet. Well interference of this magnitude should not adversely impact the well owner's ability to withdraw groundwater for their water right. The amount of available drawdown in Well #297925 was determined by taking the available head (695 ft available head) minus the drawdown produced (90 feet) by pumping the subject well at a production rate of 30 gpm. This results in an available drawdown of 605 feet in the well. Therefore, an additional drawdown of 17 feet caused by the proposed point of diversion will not adversely impact the water withdraw for the subject well.

Well ID #299305

Well ID #299305, which is listed as owned by J. Hoffman, is a 5-inch diameter domestic supply well with 120 feet of available drawdown. This well is located approximately 1,220 feet from the proposed point of discharge (Well ID #298341). It is completed at a significantly shallower depth than the proposed point of discharge even though the lithology is similar to other wells in the Glenns Ferry formation.

The water bearing "aquifer" zone in the Hoffman well ranges from ~2,569 ft to 2,557 ft amsl. The proposed point of discharge withdraws water from a bedrock fracture zone from ~1,640 to 1,635 ft amsl. For this reason, well interference to the Hoffman well from the proposed permit well was not calculated and no adverse effects are expected.

Well ID #300419

Well ID #300419, which is listed as owned by D. Snell, is 6-inch diameter domestic supply well with 280 feet of available drawdown. It is located approximately 910 feet away from the proposed point of discharge (Well ID #298341). This property and well are owned by Canyon County. The well is completed in the Glenns Ferry formation, and has similar lithology to other deep wells in the area.

Based on the forward analysis, the projected well interference from an increased withdrawal rate at the proposed point of discharge (Well ID #298341) after 1 year of continuous pumping would be approximately 32 feet on the Snell well.

Well interference of this magnitude should not adversely impact the well owner's ability to withdrawal groundwater for their water right. The available drawdown in Well ID #300419 is 280 feet. After taking into consideration the drawdown produced (75 feet) by the subject well at a production rate of 25 gpm. This results in an available drawdown of 205 feet in the well. Therefore, an additional drawdown of 32 feet caused by the proposed point of diversion will not adversely impact the water withdraw for the subject well.

Well ID #306253

Well ID #306253, which is listed as owned by Pickles Butte Farms, is a 10-inch diameter irrigation well with 310 feet of available drawdown. It is located approximately 2,840 feet from the proposed point of discharge (Well ID #298341). It is completed at a significantly shallower depth than the proposed point of diversion even though the lithology is similar to other wells in the Glenns Ferry formation.

The water bearing "aquifer" zone in the Pickles Butte Farm irrigation well ranges from ~2,312 ft to 2,132 ft amsl. The proposed point of diversion withdraws water from a fracture zone from ~1,640 to 1,635 ft amsl. For this reason, well interference on the irrigation well from the proposed permit well was not calculated and no adverse effects are expected.

Well ID #369317

Well ID #369317, which is listed as owned by J. Johnson, is a 6-inch diameter domestic supply well with 285 feet of available drawdown. It is located approximately 740 feet from the proposed point of discharge (Well ID #298341). It is completed at a significantly shallower depth than the proposed point of diversion even though the lithology is similar to other wells in the Glenns Ferry formation.

The water bearing "aquifer" zone in the Johnson well is from ~2,330 ft to 2,255 ft amsl. The proposed point of diversion withdraws water from a water bearing fracture zone from ~1,640 to 1,635 ft amsl. For this reason, well interference on the Johnson domestic supply well from the proposed permit well was not calculated and no adverse effects are expected.

Well ID #388159

Well ID #388159, which is listed as owned by L. Penrod, is a 6-inch diameter domestic supply well with 215 feet of available drawdown. It is located approximately 1,790 feet from the proposed point of discharge (Well ID

#298341). It is completed at a significantly shallower depth than the proposed point of diversion even though the lithology is similar to other wells in the Glenns Ferry formation.

The water bearing "aquifer" zone in the Penrod well is from ~2,302 ft amsl to 2,197 ft amsl. The proposed point of diversion withdraws water from a water bearing fracture zone from ~1,640 to 1,635 ft amsl. For this reason, well interference on the Penrod domestic supply well from the proposed permit well was not calculated and no adverse effects are expected.

Well ID #399786

Well ID #399786, which is listed as owned by J. Fink, is a 6-inch diameter domestic supply well with 69 feet of available drawdown. The Fink Well is located approximately 2,215 feet from the proposed point of discharge (Well ID #298341). It is completed at a significantly shallower depth than the proposed point of diversion even though the lithology is similar to other wells in the Glenns Ferry formation.

The water bearing "aquifer" zone in the Fink well is from ~2,745 ft amsl to 2,685 ft amsl. The proposed point of diversion withdraws water from a water bearing fracture zone from ~1,640 to 1,635 ft amsl. For this reason, well interference on the Fink domestic supply well from the proposed permit well was not calculated and no adverse effects are expected.

Well ID #417825

Well ID #417825, which is listed as owned by B. Teunissen, is a 16-inch diameter commercial supply well for the Beranna Dairy. The well is located approximately 2,590 feet from the proposed point of discharge (Well ID #298341) with 238 feet of available drawdown. It is completed at a significantly shallower depth than the proposed point of diversion even though the lithology is similar to other wells in the Glenns Ferry formation.

The water bearing "aquifer" zone in the Teunissen supply well is from ~2,263 ft to 2,101 ft amsl. The proposed point of diversion withdraws water from a water bearing fracture zone from ~1,640 to 1,635 ft amsl. For this reason, well interference on the Teunissen supply well from the proposed permit well was not calculated and no adverse effects are expected.

Well ID #430692

Well ID #430692, which is listed as owned by B. Teunissen, is a 12-inch diameter commercial and stockwater supply well for the Beranna Dairy. The well is located approximately 2,710 feet from the proposed point of discharge (Well ID #298341) with 250 feet of available drawdown. It is completed at a significantly shallower depth than the proposed point of diversion even though the lithology is similar to other wells in the Glenns Ferry formation.

The water bearing "aquifer" zone in the Teunissen commercial/stock well is from ~2,288 ft to 2,079 ft amsl. The proposed point of diversion withdraws water from a water bearing fracture zone from ~1,640 to 1,635 ft amsl. For this reason, well interference on the Teunissen commercial supply well from the proposed permit well was not calculated and no adverse effects are expected.

Criteria 2: Is the water supply sufficient for the purpose for which it is sought?

The water rights requested will be used for dust suppression and emergency fire suppression. The PBSL Tier I air permit requires control of dust emissions from operations (e.g. fugitive dust from driving on roads). Currently the landfill is only able to control fugitive dust during irrigation season when water from the Boise River Rental Pool is available (April 15 to October 15). The irrigation water withdraw location is 3.5 miles from the PBSL which requires additional time to complete the trip. During dry periods between October 16 and April 14, there is no water available on site for dust suppression. Water is also needed to suppress fugitive dust from grinding operations of clean wood conducted by a third-party subcontractor. Since water is not available on site, the third-party subcontractor must purchase water from the Nampa Highway District (4507 12th Ave Rd, Nampa, ID 83686) which requires a 20-mile round trip to secure water for grinding operations.

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Water truck logs for the 2019 irrigation season, and the water truck logs for February 2020 from the third-party subcontractor were reviewed to determine the water usage. The trucks used on site by PBSL and the subcontractor can carry a maximum of 3,000 gallons of water. During the 2019 irrigation season, an average of five truck loads (15,000 gallons) was used at the site on a daily basis. The maximum number of truck loads during the hottest and driest days was thirteen (39,000 gallons). Data from the third-party subcontractor was limited, but indicated that for the month of February the average number of truck loads was two (6,000 gallons) and the maximum was three (9,000 gallons). The amount used by the subcontractor is anticipated to be higher during the summer months, and was assumed to be five truck loads a day (15,000 gallons). This results in an average daily usage of 21,000 gallons, and a maximum during the summer month of 54,000 gallons. If the proposed point of discharge was pumped at a rate of 37 gpm on a continuous basis, the volume available over a 24-hour period is 53,280 gallons. Therefore, on a average day the proposed point of discharge (Well ID #298341) will produce a sufficient amount of water required for dust suppression. On high demand days, it will be possible to meet the demand by using a combination of the well and irrigation water for dust suppression and grinding operations.

The water used for dust suppression is applied during normal business operations of the landfill, which is a 10-hour day. Therefore, it will be necessary to design and install a water holding tank that will also provide an emergency supply of water available for fire suppression. This system has not yet been designed, but will be following approval of the new water rights.

Criteria 3: Is the application made in good faith or for delay or for speculation?

The application for the water right is based on actual need at the PBSL in order to meet the requirement of their Tier I operation air permit for fugitive dust. The water rights requested would be needed to be supplemented with irrigation water during the summer month to meet peak demands, but would meet the needs of the landfill between Oct 16 and April 14 when irrigation water is unavailable.

Based on the information provided above, it is our professional opinion that:

- 1) The new appropriation will not injure existing water rights;
- 2) The water supply is sufficient for the purpose for which it is sought; and
- 3) The application for the water right is made in good faith and is required for the successful operation of the PBSL.

Therefore, we believe this information supports IDWR granting the new water right (application 63-34858) for commercial purposes at the PBSL. Should you have any questions regarding the information presented in this letter, please feel free to contact me at your earliest convenience.

Sincerely,



Maureen McGraw, Ph.D. PE
Project Manager
Senior Hydrologist/Civil Engineer

Attachment A: Wells Inventoried

Attachment B: Theis calculation of transmissivity for analysis

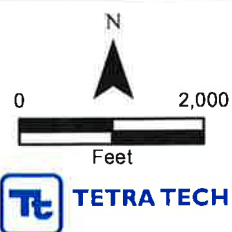
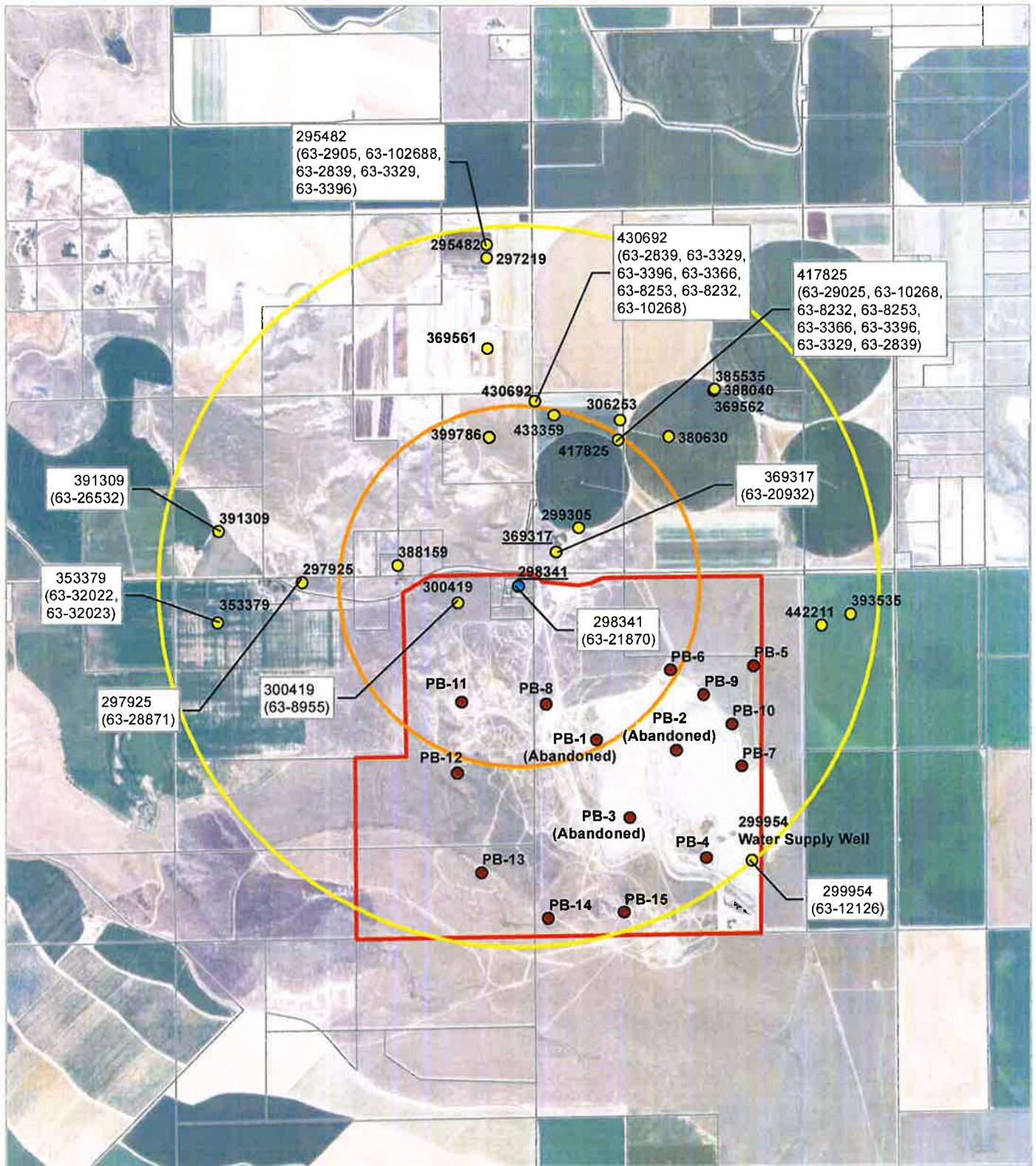
Attachment C: Aqtesolv V4 Pro Results

TETRA TECH

REFERENCES

- DBS&A. 2014. Hydrogeologic Characterization Report, Pickles Butte Sanitary Landfill, Volumes 1 and 2. Report to Pickles Butte Sanitary Landfill, April 25.
- Holladay (Holladay Engineering Company), 1994. Hydrogeologic Characterization, Groundwater Monitoring Plan, & Facility Design, Pickles Butte Sanitary Landfill, Canyon County Idaho, July 1994.
- Swirydczuk, K., Larson G.P., and Smith, G.R., 1982. Volcanic Ash Beds as Stratigraphic Markers in the Glens Ferry and Chalk Hills Formations from Adrian, Oregon to Bruneau, Idaho. Cenozoic Geology of Idaho: Idaho Bureau of Mines and Geology Bulletin 26. Bill Bonnicksen and R.M. Breckenridge, editors. P. 543-558.
- Tetra Tech, 2015. Landfill Status Report Update. Report number 4576RPT, December 8, 2015.
- Theis, C.V., 1935. The relation between the lowering of the piezometric surface and the rate and duration of discharge of a well using groundwater storage, Am. Geophys. Union Trans., vol. 16, pp. 519-524.

FIGURES



- Area of Water Usage
- Groundwater Wells
- Parcel
- 298431 - point of proposed diversion
- 1 mile buffer
- Monitoring Well
- 1/2 mile buffer

Figure 1
Adjacent Groundwater
Water Rights
Pickles Butte Sanitary Landfill
Canyon County, ID

*Accessed IDWR well logs 3/9/2020.

TABLES

WellID	Northing	Easting	WaterRight	PriorityDate	Source	Owner	Status	Basis	OverallMax (cfs)	DataSource
391309	4816729	521701.6	63-26532	1961-11-17	GROUND WATER	RALPH W SEVY	Active	Decreed	0.04	QQQ
297925	4816544	522305	63-28871	1981-10-15	GROUND WATER	GAYLE ORCUTT	Active	Decreed	0.04	QQQ
298341	4816445	523008.9	63-21870	1980-04-01	GROUND WATER	CANYON COUNTY	Active	Decreed	0.04	QQ
369317	4816745	523309.9	63-20932	1971-10-01	GROUND WATER	JOHN R JOHNSON	Active	Decreed	0.11	QQQ
300419	4816046	523412.5	63-8955	1977-06-14	GROUND WATER	COUNTY OF CANYON	Active	Decreed	0.02	QQ
430692	4817409	523264.3	63-2839	1955-09-14	GROUND WATER	BERANNA DAIRY	Active	Decreed	1.35	Digitized
430692	4817409	523264.3	63-3329	1963-02-16	GROUND WATER	BERANNA DAIRY	Active	Decreed	2.06	Digitized
430692	4817409	523264.3	63-3396	1963-12-13	GROUND WATER	BERANNA DAIRY	Active	Decreed	1.2	Digitized
430692	4817409	523264.3	63-3366	1963-08-26	GROUND WATER	BERANNA DAIRY	Active	Decreed	2.09	Digitized
430692	4817409	523264.3	63-8253	1976-01-16	GROUND WATER	BERANNA DAIRY	Active	Decreed	1.16	Digitized
430692	4817409	523264.3	63-8232	1975-10-28	GROUND WATER	BERANNA DAIRY	Active	Decreed	2.73	Digitized
430692	4817409	523264.3	63-10268	1984-10-03	GROUND WATER	BERANNA DAIRY	Active	License	1.54	Digitized
430692	4817409	523264.3	63-29025	1960-08-15	GROUND WATER	BERANNA DAIRY	Active	Decreed	0.64	Digitized
417825	4817266	523586	63-29025	1960-08-15	GROUND WATER	BERANNA DAIRY	Active	Decreed	0.64	Digitized
417825	4817266	523586	63-10268	1984-10-03	GROUND WATER	BERANNA DAIRY	Active	License	1.54	Digitized
417825	4817266	523586	63-8232	1975-10-28	GROUND WATER	BERANNA DAIRY	Active	Decreed	2.73	Digitized
417825	4817266	523586	63-8253	1976-01-16	GROUND WATER	BERANNA DAIRY	Active	Decreed	1.16	Digitized
417825	4817266	523586	63-3366	1963-08-26	GROUND WATER	BERANNA DAIRY	Active	Decreed	2.09	Digitized
417825	4817266	523586	63-3396	1963-12-13	GROUND WATER	BERANNA DAIRY	Active	Decreed	1.2	Digitized
417825	4817266	523586	63-3329	1963-02-16	GROUND WATER	BERANNA DAIRY	Active	Decreed	2.06	Digitized
417825	4817266	523586	63-2839	1955-09-14	GROUND WATER	BERANNA DAIRY	Active	Decreed	1.35	Digitized
295482	4818149	523176.6	63-29025	1960-08-15	GROUND WATER	BERANNA DAIRY	Active	Decreed	0.64	Digitized
295482	4818149	523176.6	63-10268	1984-10-03	GROUND WATER	BERANNA DAIRY	Active	License	1.54	Digitized
295482	4818149	523176.6	63-2839	1955-09-14	GROUND WATER	BERANNA DAIRY	Active	Decreed	1.35	Digitized
295482	4818149	523176.6	63-3329	1963-02-16	GROUND WATER	BERANNA DAIRY	Active	Decreed	2.06	Digitized
295482	4818149	523176.6	63-3396	1963-12-13	GROUND WATER	BERANNA DAIRY	Active	Decreed	1.2	Digitized
295482	4818149	523176.6	63-3366	1963-08-26	GROUND WATER	BERANNA DAIRY	Active	Decreed	2.09	Digitized
295482	4818149	523176.6	63-8232	1975-10-28	GROUND WATER	BERANNA DAIRY	Active	Decreed	2.73	Digitized
295482	4818149	523176.6	63-8253	1976-01-16	GROUND WATER	BERANNA DAIRY	Active	Decreed	1.16	Digitized
353379	4816405	521583.1	63-32022	1977-03-01	GROUND WATER	REALLEN LLC	Active	Decreed	0.4	Digitized
353379	4816405	521583.1	63-32023	1959-03-01	GROUND WATER	REALLEN LLC	Active	Decreed	0.92	Digitized

Attachment A: Wells Inventoried

Wells identified within 1/2-mile analyzed for adverse effects

Well ID #298341: Proposed point of diversion (Stewart)

Well ID #297925: E. Helfrich

Well ID #299305: J. Hoffman

Well ID #300419: D. Snell

Well ID #306253: Pickles Butte Farms

Employee Name Amara Muller		PERSONNEL		Client Company Carman County	
RECORD JOB SITE INFORMATION BELOW		DATE 4/30/20		DATE 4/4/2020	
JOB SITE	DEPT./COST CENTER	SUN	MON	TUE	WED
Carman County Landfill		DATE 4/30/20	DATE 4/30/20	DATE 4/30/20	DATE 4/30/20
	Time In				
	Time Out				
	Less Lunch				
		Daily Hours			
JOB SITE	DEPT./COST CENTER				
	Time In				
	Time Out				
	Less Lunch				
		Daily Hours			
JOB SITE	DEPT./COST CENTER				
	Time In				
	Time Out				
	Less Lunch				
		Daily Hours			
ENTER TOTAL HOURS (Round to nearest quarter hour)					

Well ID #369317: J. Johnson
Well ID #388159: L. Penrod
Well ID #399786: J. Fink
Well ID #417825: B. Teunissen
Well ID #430692: B. Teunissen

Other well logs for wells identified within 1-mile

Well ID #295482, #297219, #353379, #369561, #369562, #380630, #385535, #388040, #391309, #393535, #442211

CLIENT NOTICE AND VERIFICATION: The undersigned, as Agent for the client company, certifies that the requested data associated with the wells and diversions listed on the reverse side of this form were reviewed and verified for accuracy during the period noted on this form. The undersigned also acknowledges and agrees that the wells and diversions listed on the reverse side of this form were reviewed and verified for accuracy during the period noted on this form. The undersigned also acknowledges and agrees that the wells and diversions listed on the reverse side of this form were reviewed and verified for accuracy during the period noted on this form.

Signature: *[Signature]*
Date: **4/1/20**

PERSONNEL PLUS COPY

FORWARD WHITE COPY TO WATER RESOURCES

1. DRILLING PERMIT NO. 63-94-W-0268-001

Other IDWR No.

2. OWNER:

Name David Snell
Address 16141 DELL FLAT ROAD
City Caldwell State Id Zip 83605

3. LOCATION OF WELL by legal description:

Sketch map location must agree with written location.

N

			X

S

T. 2 North ☒ or South ☐

E. 3 East ☐ or West ☒

Sec. 20 1/4 NE 1/4 NE 1/4 1/4

Gov't Lot _____ County CAYEN

Address of Well Site 16141 Deek Flat Rd.
Caldwell

(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	
Asbestos (Grunum)	0	30	100	Drill + Drive

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

8. CASING/LINER:

Diameter	From	To	Gauge	Coating	Liner	Steel	Plastic	Welded	Threaded
6"	1-2	463	25	X		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
						<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
						<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
						<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Final location of shoes 463

Top Packer or Headpipe _____ Bottom Tailpipe _____

9. PERFORATIONS/SCREENS - none

☐ Perforations Method _____

☐ Screens Type _____ Material _____

From	To	Slot Size	Number	Diameter	Tel./Pipe Size	Casting	Linear
						<input type="checkbox"/>	<input type="checkbox"/>
						<input type="checkbox"/>	<input type="checkbox"/>
						<input type="checkbox"/>	<input type="checkbox"/>
						<input type="checkbox"/>	<input type="checkbox"/>

10. WELL TESTS:

☐ Pump ☐ Bailer ☒ Air ☐ Flowing Artesian

Yield gal./min.	Drawdown	Pumping Depth	Time
25 gal			1 hr

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

By whom?

Water Quality (odor, etc.) _____

Bottom Hole Temperature _____

11. STATIC WATER LEVEL:

370 ft. below surface Depth artesian flow found _____

Artesian pressure _____ lb. Describe access 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 Adams Pump & Drill Firm No. 457

Firm Official Adam Adamson Date 5/27/94

and
Supervisor or Operator Dave Adamson date 5/27/96

(Sign once if Firm Official & Operator)

FORWARD WHITE COPY TO WATER RESOURCES

IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORTRECEIVED
JUN 17 1994
Typewriter
or
Ball Point Pen

Department of Water Resources

092619

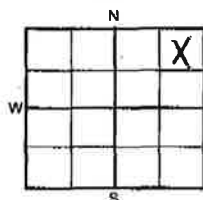
1. DRILLING PERMIT NO. 63-94-W-0268-000

Other IDWR No. _____

2. OWNER:

Name David Swell
Address 215 Ouyhac Ave
City Nampa State ID Zip 83686

3. LOCATION OF WELL by legal description:

Sketch map location must agree with written location.T. 2 North ☒ or South ☐
R. 3 East ☐ or West ☒
Sec. 20 1/4 NE 1/4 NE 1/4
Gov't Lot _____ County CanyonAddress of Well Site 16141 Deer Flat Road,
Caldwell

(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		
BENTONITE	0	30	100#		Drill & Drive

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

8. CASING/LINER:

Diameter	From	To	Gauge	Casting	Liner	Steel	Plastic	Welded	Threaded
<u>6"</u>	<u>12</u>	<u>463</u>	<u>.25</u>	<u>X</u>		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
						<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
						<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
						<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Final location of shoes 463

Top Packer or Headpipe _____ Bottom Tailpipe _____

9. PERFORATIONS/SCREENS - None☐ Perforations Method _____
☐ Screens Type _____ Material _____

From	To	Slot Size	Number	Diameter	Tel/Pipe Size	Casting	Liner
						<input type="checkbox"/>	<input type="checkbox"/>
						<input type="checkbox"/>	<input type="checkbox"/>
						<input type="checkbox"/>	<input type="checkbox"/>
						<input type="checkbox"/>	<input type="checkbox"/>

10. WELL TESTS:

☐ Pump ☐ Bailor ☒ Air ☐ Flowing Artesian

Yield gal./min.	Drawdown	Pumping Depth	Time

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

By whom? _____

Water Quality (odor, etc.) _____

Bottom Hole Temperature _____

11. STATIC WATER LEVEL:

420 ft. below surface Depth artesian flow found _____

Artesian pressure _____ lb. Describe access port _____

Describe Controlling Devices: _____

12. LITHOLOGIC LOG: (Describe repairs or abandonment)

Bore Dia.	From	To	Remarks: Lithology, Water Quality & Temperature	GPM	SWL
<u>8"</u>	<u>0</u>	<u>10</u>	<u>Sandy Top Soil</u>		
	<u>10</u>	<u>150</u>	<u>Clay & Sandy Clay</u>		
	<u>150</u>	<u>151</u>	<u>Sandstone</u>		
	<u>151</u>	<u>160</u>	<u>Clay</u>		
	<u>160</u>	<u>161</u>	<u>Sandstone</u>		
	<u>161</u>	<u>310</u>	<u>Clay & Sandy Clay</u>		
	<u>310</u>	<u>311</u>	<u>Sandstone</u>		
	<u>311</u>	<u>320</u>	<u>Clay</u>		
	<u>320</u>	<u>342</u>	<u>Blue Clay</u>		
	<u>342</u>	<u>343</u>	<u>Sandstone</u>		
	<u>343</u>	<u>465</u>	<u>Blue Clay</u>		
	<u>465</u>	<u>490</u>	<u>Blue Clay, v. hard</u>		
	<u>490</u>	<u>491</u>	<u>Soft, fractured Clay</u>		
	<u>491</u>	<u>495</u>	<u>Hard Clay</u>		
	<u>495</u>	<u>497</u>	<u>Soft, fractured Clay</u>		
	<u>497</u>	<u>501</u>	<u>Clay</u>		
	<u>501</u>	<u>506</u>	<u>Soft, fractured Clay</u>		
	<u>506</u>	<u>508</u>	<u>Soft, fractured Clay</u>		
	<u>508</u>	<u>700</u>	<u>Clay, blue v. little</u>		<u>X</u>

RECEIVED

FEB 08 1995

MAY 04 1994

WATER RESOURCES
WESTERN REGIONDate: Started 4/13/94 Completed 4/20/94

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 Adams Pump & Drilling Firm No. 457Firm Official Dave Adamson Date 4/20/94and Supervisor or Operator Dave Adamson Date 4/20/94

(Sign once if Firm Official & Operator)

FORWARD WHITE COPY TO WATER RESOURCES

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.

COPY

1. WELL OWNER Name <u>PICKLE BUTTE FARMS</u> Address <u>ROUTE 4 BOX 344 Nampa, Idaho</u> Owner's Permit No. <u>63-88-Z-046</u>		7. WATER LEVEL Static water level <u>300</u> feet below land surface. Flowing? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No G.P.M. flow _____ Artesian closed-in pressure _____ p.s.i. Controlled by: <input type="checkbox"/> Valve <input type="checkbox"/> Cap <input type="checkbox"/> Plug Temperature _____ °F. Quality _____ <i>Describe artesian or temperature zones below.</i>																																																																																																																													
2. NATURE OF WORK <input checked="" type="checkbox"/> New well <input type="checkbox"/> Deepened <input checked="" type="checkbox"/> Replacement <input type="checkbox"/> Well diameter increase <input type="checkbox"/> Abandoned (describe abandonment procedures such as materials, plug depths, etc. in lithologic log)		8. WELL TEST DATA <input checked="" type="checkbox"/> Pump <input type="checkbox"/> Bailer <input type="checkbox"/> Air <input type="checkbox"/> 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>300</td><td>425</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	300	425																																																																																																																							
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4. METHOD DRILLED <input checked="" type="checkbox"/> Rotary <input checked="" type="checkbox"/> Air <input type="checkbox"/> Hydraulic <input type="checkbox"/> Reverse rotary <input type="checkbox"/> Cable <input type="checkbox"/> Dug <input type="checkbox"/> Other _____																																																																																																																															
5. WELL CONSTRUCTION Casing schedule: <input checked="" type="checkbox"/> Steel <input type="checkbox"/> Concrete <input type="checkbox"/> Other <table border="1"><thead><tr><th>Thickness</th><th>Diameter</th><th>From</th><th>To</th></tr></thead><tbody><tr><td>.250 inches</td><td>20 inches</td><td>+ 1 feet</td><td>79 feet</td></tr><tr><td>.250 inches</td><td>16 inches</td><td>1.5 feet</td><td>439 feet</td></tr><tr><td>.250 inches</td><td>10 inches</td><td>420 feet</td><td>618 feet</td></tr><tr><td></td><td></td><td></td><td></td></tr></tbody></table> Was casing drive shoe used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Was a packer or seal used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Perforated? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No How perforated? <input checked="" type="checkbox"/> Factory <input type="checkbox"/> Knife <input checked="" type="checkbox"/> Torch <input type="checkbox"/> Gun Size of perforation <u>1/8</u> inches by <u>3</u> inches <table border="1"><thead><tr><th>Number</th><th>From</th><th>To</th></tr></thead><tbody><tr><td>3200 perforations</td><td>230 feet</td><td>439 feet</td></tr><tr><td>1800 perforations</td><td>430 feet</td><td>610 feet</td></tr><tr><td></td><td></td><td></td></tr></tbody></table> Well screen installed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Size of gravel <u>3/8 MINUS</u> Placed from <u>430</u> feet to <u>610</u> feet Surface seal depth <u>20</u> Material used to seal: <input type="checkbox"/> Cement <input checked="" type="checkbox"/> Bentonite <input checked="" type="checkbox"/> Puddling clay Sealing procedure used: <input checked="" type="checkbox"/> Slurry pit <input checked="" type="checkbox"/> Temp. surface casing <input checked="" type="checkbox"/> Overbore to seal depth Method of joining casing: <input type="checkbox"/> Threaded <input checked="" type="checkbox"/> Welded <input type="checkbox"/> Solvent Weld <input type="checkbox"/> Cemented between strata Describe access port _____		Thickness	Diameter	From	To	.250 inches	20 inches	+ 1 feet	79 feet	.250 inches	16 inches	1.5 feet	439 feet	.250 inches	10 inches	420 feet	618 feet					Number	From	To	3200 perforations	230 feet	439 feet	1800 perforations	430 feet	610 feet																																																																																																	
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6. LOCATION OF WELL Sketch map location must agree with written location  County <u>CANYON</u> <u>NW</u> ¼ <u>SW</u> ¼ Sec. <u>16</u> , T. <u>2</u> S. R. <u>3</u> E. <input checked="" type="checkbox"/>		10. Work started <u>4/29/88</u> finished <u>10/11/90</u>																																																																																																																													
11. DRILLERS CERTIFICATION I/We certify that all minimum well construction standards were complied with at the time the rig was removed. BILL DOTY DRILLING CO., INC. 42 Firm Name _____ Firm No. _____ Address <u>106 CALLOWAY</u> Date <u>10-12-90</u> <u>CALDWELL, ID 83605</u> Signed by (Firm Official) _____ and (Operator) <u>Bob Doty</u>																																																																																																																															

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

USE TYPEWRITER OR
BALL POINT PEN

State of Idaho
Department of Water Administration

WELL DRILLER'S REPORT

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

1. WELL OWNER

Name John R. Johnson
Address Rt 16 Box 75 Caldwell
Owner's Permit No. N/A

7. WATER LEVEL

Static water level 290 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. 30 Draw Down _____ Hours Pumped _____

3. PROPOSED USE

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

9. LITHOLOGIC LOG

31676

Hole Diam.	Depth		Material	Water	
	From	To		Yes	No
6"	0	10	Hardpan & gravel		X
	10	35	Sandy Clay		
	35	45	Clay		
	45	60	Sandy Clay		
	60	65	Gravel		
	65	105	Sandy Clay		
	105	112	Sand		
	112	165	Yellow Clay		
	165	170	Gravel		
	170	185	Clay		
	185	217	Sand		
	217	265	Yellow Clay		
	265	280	Blue Clay		
	280	295	Yellow Clay & Gravel		
	295	310	Yellow Clay		
	310	318	Brown Sandy Clay		
	318	325	Red Sandy Clay		
	325	330	White Clay		
	330	358	Yellow Sandy Clay		
	358	378	Sandy Clay		
	378	385	Yellow Clay		X
	385	405	Sand	X	
	405	440	Yellow Clay		X
	440	460	Gray Sandy Clay		
	460	480	Blue Shale		
	480	485	Blue Sand		
	485	500	Blue Shale		X
	500	515	Mucky Sand	X	
	515	520	Blue Shale		X
	520	530	Hard shale mixed with sand		X
	530	570	Sticky Blue shale		X
	570	575	Sand	X	

4. METHOD DRILLED

☒ Cable ☐ Rotary ☐ Dug ☐ Other

5. WELL CONSTRUCTION

Diameter of hole 6 inches Total depth 575 feet
Casing schedule: ☐ Steel ☐ Concrete

Thickness	Diameter	From	To
<u>250</u> inches	<u>6</u> inches	<u>10</u> feet	<u>533</u> feet
_____ inches	_____ inches	_____ feet	_____ feet
_____ inches	_____ inches	_____ feet	_____ feet
_____ inches	_____ inches	_____ feet	_____ feet
_____ inches	_____ inches	_____ feet	_____ feet

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

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

Well screen installed? ☐ Yes ☒ No

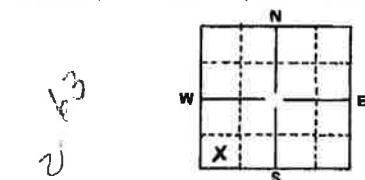
Manufacturer's name _____
Type _____ Model No. _____
Diameter _____ Slot size _____ Set from _____ feet to _____ feet
Diameter _____ Slot size _____ Set from _____ feet to _____ feet

Gravel packed? ☐ Yes ☒ No Size of gravel _____
Placed from _____ feet to _____ feet

Surface seal? ☒ Yes ☐ No To what depth 42 feet
Material used in seal ☐ Cement grout ☒ Puddling clay

6. LOCATION OF WELL

Sketch map location must agree with written location.



County Canyon
SW 1/4 SW 1/4 Sec. 16 T. 2 N. R. 3 W

10. Work started 10/28/70 finished 12/28/70

11. DRILLER'S CERTIFICATION

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

Rex Engleman 47
Driller's or Firm's Name Number
Address 1309 Rand Boise
Signed by Rex Engleman Date 6/13/70

USE ADDITIONAL SHEETS IF NECESSARY

FORWARD THE WHITE, BLUE, AND PINK COPIES 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.

1. WELL OWNER Name <u>LA MAR PERROD</u> Address <u>Rt. 4 Caldwell, Idaho</u> Owner's Permit No. _____		7. WATER LEVEL Static water level <u>190</u> feet below land surface Flowing? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No G.P.M. flow _____ Temperature _____ ° F. Quality _____ Artesian closed-in pressure _____ p.s.i. Controlled by <input type="checkbox"/> Valve <input type="checkbox"/> Cap <input type="checkbox"/> Plug																																																																																			
2. NATURE OF WORK <input checked="" type="checkbox"/> New well <input type="checkbox"/> Deepened <input type="checkbox"/> Replacement <input type="checkbox"/> Abandoned (describe method of abandoning) _____		8. WELL TEST DATA <input type="checkbox"/> Pump <input checked="" type="checkbox"/> Bailer <input type="checkbox"/> Other <table border="1"><thead><tr><th>Discharge G.P.M.</th><th>Draw Down</th><th>Hours Pumped</th></tr></thead><tbody><tr><td><u>15</u></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	<u>15</u>																																																																														
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3. PROPOSED USE <input checked="" type="checkbox"/> Domestic <input type="checkbox"/> Irrigation <input type="checkbox"/> Test <input type="checkbox"/> Other (specify type) _____ <input type="checkbox"/> Municipal <input type="checkbox"/> Industrial <input type="checkbox"/> Stock <input type="checkbox"/> Waste Disposal or Injection		9. LITHOLOGIC LOG 41184 <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>3</td><td>SAND</td><td></td><td>X</td></tr><tr><td>8</td><td>3</td><td>15</td><td>SAND some Gravel</td><td></td><td>X</td></tr><tr><td>8</td><td>15</td><td>40</td><td>SAND AND CLAY layers</td><td></td><td>X</td></tr><tr><td>8</td><td>40</td><td>45</td><td>Gravel</td><td></td><td>X</td></tr><tr><td>4</td><td>45</td><td>50</td><td>SAND</td><td></td><td>X</td></tr><tr><td>4</td><td>50</td><td>110</td><td>CLAY AND SAND layers</td><td></td><td>X</td></tr><tr><td>4</td><td>110</td><td>210</td><td>CLAY (Brown)</td><td></td><td>X</td></tr><tr><td>4</td><td>210</td><td>300</td><td>Blue SHALE</td><td></td><td>X</td></tr><tr><td>4</td><td>300</td><td>305</td><td>SAND AND CLAY</td><td>X</td><td></td></tr><tr><td>4</td><td>305</td><td>400</td><td>CLAY</td><td></td><td>X</td></tr><tr><td>4</td><td>400</td><td>405</td><td>Sand</td><td>X</td><td></td></tr><tr><td>6</td><td>405</td><td>420</td><td>CLAY</td><td></td><td>X</td></tr></tbody></table>		Hole Diam.	Depth		Material	Water		From	To	Yes	No	8	0	3	SAND		X	8	3	15	SAND some Gravel		X	8	15	40	SAND AND CLAY layers		X	8	40	45	Gravel		X	4	45	50	SAND		X	4	50	110	CLAY AND SAND layers		X	4	110	210	CLAY (Brown)		X	4	210	300	Blue SHALE		X	4	300	305	SAND AND CLAY	X		4	305	400	CLAY		X	4	400	405	Sand	X		6	405	420	CLAY		X
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5. WELL CONSTRUCTION Diameter of hole <u>6</u> inches Total depth <u>405</u> feet Casing schedule: <input checked="" type="checkbox"/> Steel <input type="checkbox"/> Concrete Thickness _____ Diameter _____ From _____ To _____ <u>250</u> inches <u>6</u> inches <u>2</u> feet <u>210</u> feet _____ inches _____ inches _____ feet _____ feet _____ inches _____ inches _____ feet _____ feet _____ inches _____ inches _____ feet _____ feet _____ inches _____ inches _____ feet _____ feet Was casing drive shoe used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Was a packer or seal used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Perforated? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No How perforated? <input type="checkbox"/> Factory <input type="checkbox"/> Knife <input type="checkbox"/> Torch Size of perforation _____ inches by _____ inches Number _____ From _____ To _____ _____ perforations _____ feet _____ feet _____ perforations _____ feet _____ feet _____ perforations _____ feet _____ feet Well screen installed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Manufacturer's name _____ Model No. _____ Diameter _____ Slot size _____ Set from _____ feet to _____ feet Diameter _____ Slot size _____ Set from _____ feet to _____ feet Casing packed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Size of gravel _____ Packed from _____ feet to _____ feet Casing seal depth <u>55'</u> Material used in seal <input type="checkbox"/> Cement grout <input checked="" type="checkbox"/> Pudding clay <input checked="" type="checkbox"/> Well cuttings Sealing procedure used <input type="checkbox"/> Slurry pit <input type="checkbox"/> Temporary surface casing <input checked="" type="checkbox"/> Overbore to seal depth																																																																																					
6. LOCATION OF WELL Sketch map location must agree with written location. <div style="display: flex; align-items: center;"><div style="text-align: center;"><p>62</p></div><div style="margin-left: 20px;">Subdivision Name _____ Lot No. _____ Block No. _____ County <u>Canyon</u> <u>S 24 1/2 E 1/4 Sec. 17 T. 2 N. R. 3 W</u></div></div>		10. Work started <u>9-18-75</u> finished <u>10-2-75</u>																																																																																			
		11. DRILLERS CERTIFICATION Firm Name <u>Bill Doty Well Drilling</u> Firm No. <u>442</u> Address <u>Route 7 Caldwell</u> Date <u>9-3-76</u> Signed by (Firm Official) <u>Bill Doty</u> and (Operator) <u>Bob Doty</u>																																																																																			

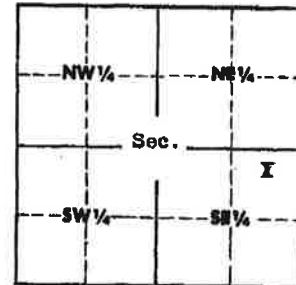
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OCT 27 1965

WELL LOG AND REPORT TO THE Department of Reclamation
STATE RECLAMATION ENGINEER OF IDAHO

SUBMIT WITHIN 30 DAYS AFTER COMPLETION OF WELL: SEE IDAHO STATUTES 42-238

Permit No. _____ Well No. 174 County Canyon
Owner DR. JOHN PAUL FINCK
Address 701 N. Indiana Ave., Caldwell, Idaho
Driller B. & M. EQUIPMENT CO., INC.
Address P.O. Box 973, Caldwell, Idaho
Well location NE 1/4 SE 1/4 Sec. 17, T. 2 N, R. 3 E, W
Size of drilled hole 12-1/4"

Locate well in section



Total depth of well 100'

Give depth to standing water from the ground 31' Water temp. _____ °Fahr.

Test delivery was _____ g.p.m. or _____ c.f.s. Drawdown was _____ feet. Pump? _____ Bail? _____

Size of pump and motor used to make test _____

Length of time of test _____ hours _____ minutes.

If flowing well, give flow _____ c.f.s. or _____ g.p.m. and of shut off pressure _____

If flowing well, described control works _____

(TYPE AND SIZE OF VALVE, ETC.)

Water will be used for Domestic Weight of casing per lineal foot 7.3

Thickness of casing 10 ga. Casing material Steel

(STEEL, CONCRETE, WOOD, ETC.)

Diameter, length and location of casing 5" x 80' from ground, 6-5/8" x 20' from 80' to 100' from ground
(CASING 12" IN DIAMETER OR LESS, GIVE INSIDE DIAMETER;
CASING OVER 12" IN DIAMETER, GIVE OUTSIDE DIAMETER)

CASING RECORD

Diam. Casing	From Feet	To Feet	Length	Remarks—seals, grouting, etc.
5	0	80	80	Gravel packed from 40' to 100' from ground level. Four
6-5/8"	80	100	20	sack raw cement seal installed at 40'. Bentonite slurry, gravel, and dirt from seal to ground level.

Number and size of perforations 1140 1/8" x 2" located 80 feet to 100 feet from ground

Date of commencement of well June 15, 1965 Date of completion of well June 18, 1965

NE SE S. 17 2 N 3 W

ucll

WELL LOG

From Feet	To Feet	Type of Material	Water-Marine Formation Ass. Yes or No	Casing Perforated Ass. Yes or No
0	1 $\frac{1}{2}$	Silt-Brown	no	no
1 $\frac{1}{2}$	5	Clay-hard	no	no
5	15	Sand-hard, white and brown, strips of rock	no	no
15	34	Sand-medium, with boulders	no	no
34	38	Gravel with boulders	no	no
38	42	" " "	no	no
42	47	Clay-yellow	no	no
47	52	Sand-yellow	no	no
52	65	Clay-yellow with narrow sand strips	no	no
65	71	Sand-white, medium	no	no
71	79	Clay-gray	no	no
79	83	Gravel-white, red and brown	yes	yes
83	91	Clay-gray	no	yes
91	95	Sand-coarse	yes	yes
95	100	Clay	no	yes

If more space is required use Sheet No. 2

WELL DRILLER'S STATEMENT

This well was drilled under my supervision and the above information is complete, true and correct to the best of my knowledge and belief.

Signed B. & M. EQUIPMENT CO., INC.

By Ray H. George

Dated Oct. 25, _____, 1965

License No. 221

Well Driller's Helper Glen Boxberger.

IDAHO DEPARTMENT OF WATER RESOURCES WELL DRILLER'S REPORT

847849

Office Use Only

Well ID No. 417825

Inspected by _____

Twp _____ Rge _____ Sec _____

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

Lat: _____ Long: _____

1. WELL TAG NO. D 0052060
 DRILLING PERMIT NO. 900901-847849
 Water Right or Injection Well No. 63-8232

2. OWNER:
 Name BERNIE TEUNISSEN
 Address 9166 PERCH
 City CALDWELL State ID Zip 83607

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. 3 East ☐ or West ☒
 Sec. 16 SE 1/4 NW 1/4 SW 1/4
 Gov't Lot _____
 Lat: 43:30:46 Long: 116:42:49
 Address of Well Site PERCH RD EAST SIDE ACROSS
FROM DAIRY City CALDWELL

Lt. _____ Blk. _____ Sub. Name _____
9168 PERCH PER AERVIEW

4. USE:

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

5. TYPE OF WORK check all that apply

☐ New Well ☐ Modify ☐ Abandonment ☒ Other REPLACE

6. DRILL METHOD:

☐ Air Rotary ☐ Cable ☐ Mud Rotary ☒ Other REVERSE

7. SEALING PROCEDURES

Seal Material	From	To	Weight / Volume	Seal Placement Method
<u>3/4 BENTONITE</u>	<u>0</u>	<u>488</u>	<u>60,000</u>	<u>DRY POUR</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>16</u>	<u>+2</u>	<u>520</u>	<u>.375</u>	<u>STEEL</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Length of Headpipe _____ Length of Tailpipe 15
 Packer ☐ Y ☒ N Type _____

9. PERFORATIONS/SCREENS PACKER TYPE

Perforation Method _____

Screen Type & Method of Installation JOHNSON WIRE WRAP

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
<u>520</u>	<u>640</u>	<u>.025</u>		<u>16</u>	<u>S.S.</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

10. FILTER PACK

Filter Material	From	To	Weight / Volume	Placement Method
<u>#8-12 CSSI SAND</u>	<u>488</u>	<u>650</u>	<u>12,000</u>	<u>DRY POUR</u>
<u>CLAY FILL</u>	<u>650</u>	<u>680</u>		

11. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

398 ft. below ground Artesian pressure _____ lb.
 Depth flow encountered _____ ft. Describe access port or control devices:
2" PIPE ON SIDE

12. WELL TESTS:

☒ Pump ☐ Bailor ☐ Air ☐ Flowing Artesian

Yield gal./min.	Drawdown	Pumping Level	Time
<u>700 gpm</u>	<u>74</u>	<u>472</u>	<u>5 1/2 hrs</u>

Water Temp. _____ Bottom hole temp. _____

Water Quality test or comments: _____

Depth first Water Encounter _____

13. LITHOLOGIC LOG: (Describe repairs or abandonment)

Bore Dia.	From	To	Remarks: Lithology, Water Quality & Temperature	Y	N
<u>26</u>	<u>0</u>	<u>3</u>	<u>TOP SOIL</u>		<input checked="" type="checkbox"/>
	<u>3</u>	<u>5</u>	<u>CLECHY</u>		<input checked="" type="checkbox"/>
	<u>5</u>	<u>14</u>	<u>SANDY LOAM</u>		<input checked="" type="checkbox"/>
	<u>14</u>	<u>25</u>	<u>SAND, GRAVEL</u>		<input checked="" type="checkbox"/>
	<u>25</u>	<u>32</u>	<u>BLACK CINDERS</u>		<input checked="" type="checkbox"/>
	<u>32</u>	<u>46</u>	<u>BRN SANDSTONE, BURNT CLAY</u>		<input checked="" type="checkbox"/>
	<u>46</u>	<u>51</u>	<u>SAND, GRAVEL</u>		<input checked="" type="checkbox"/>
	<u>51</u>	<u>54</u>	<u>BURNT CLAY</u>		<input checked="" type="checkbox"/>
	<u>54</u>	<u>122</u>	<u>SAND, GRAVEL</u>		<input checked="" type="checkbox"/>
	<u>122</u>	<u>183</u>	<u>BRN CLAY, SM SAND LAYERS</u>		<input checked="" type="checkbox"/>
	<u>183</u>	<u>222</u>	<u>FINE BRN SAND</u>		<input checked="" type="checkbox"/>
	<u>222</u>	<u>232</u>	<u>BRN CLAY</u>		<input checked="" type="checkbox"/>
	<u>232</u>	<u>373</u>	<u>FINE SAND, SM CLAY LAYERS</u>	<input checked="" type="checkbox"/>	
	<u>373</u>	<u>405</u>	<u>BLUE CLAY</u>		<input checked="" type="checkbox"/>
	<u>405</u>	<u>433</u>	<u>FINE - COARSE SAND</u>	<input checked="" type="checkbox"/>	
	<u>433</u>	<u>441</u>	<u>BLUE CLAY</u>		<input checked="" type="checkbox"/>
	<u>441</u>	<u>450</u>	<u>BLUE SAND, SM CLAY LAYERS</u>	<input checked="" type="checkbox"/>	
	<u>450</u>	<u>476</u>	<u>BLUE CLAY</u>		<input checked="" type="checkbox"/>
	<u>476</u>	<u>520</u>	<u>FINE BLUE SAND, CLAY, YELLOW SHALE</u>		<input checked="" type="checkbox"/>
	<u>520</u>	<u>644</u>	<u>FINE - COARSE SAND, SOME SHALE</u>	<input checked="" type="checkbox"/>	
	<u>644</u>	<u>645</u>	<u>HARD SANDSTONE</u>		<input checked="" type="checkbox"/>
	<u>645</u>	<u>659</u>	<u>FINE SAND</u>	<input checked="" type="checkbox"/>	
	<u>659</u>	<u>680</u>	<u>BLUE CLAY</u>		<input checked="" type="checkbox"/>

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OCT 10 2007

WATER RESOURCES
WESTERN REGION

Completed Depth 655 (Measurable)
 Date: Started 7-24-07 Completed 9-20-07

14. DRILLER'S CERTIFICATION

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

Company Name RIVERSIDE, INC Firm No. 333

Principal Driller Kevin Charters Date 10-2-07

Driller or Operator II Kevin Charters Date _____

Operator Kevin Charters 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

Page 1 of 2

861400

1. WELL TAG NO. D 0060024

Drilling Permit No. 912768-861400

Water right or injection well # 63-2839,63-3329,63-3366,63-3396

2. OWNER: Bernie Teunissen 63-8232,63-8253,63-29025

Name Beranna Dairy

Address 9166 Perch

City Caldwell State ID Zip 83607

3. WELL LOCATION:

Twp. 02 North ☒ or South ☐ Rge. 03 East ☐ or West ☒

Sec. 16 NW 1/4 NW 1/4 SW 1/4

Gov't Lot County Canyon

Lat. N 43 30.560 (Deg. and Decimal minutes)

Long. W116 42.766 (Deg. and Decimal minutes)

Address of Well Site 500' to the East off of Perch, 9166 Perch

Rd City Caldwell

Lot. Blk. Sub. Name

4. USE:

☐ Domestic ☐ Municipal ☐ Monitor ☒ Irrigation ☐ Thermal ☐ Injection
☒ Other Commercial, Stockwater

5. TYPE OF WORK:

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

6. DRILL METHOD:

☐ Air Rotary ☐ Mud Rotary ☐ Cable ☒ Other Reverse

7. SEALING PROCEDURES:

Seal material	From (ft)	To (ft)	Quantity (lbs or ft ³)	Placement method/procedure
Bentonite chips	0	465	56,000	Dry pour

8. CASING/LINER:

Diameter (nominal)	From (ft)	To (ft)	Gauge/Schedule	Material	Casing	Liner	Threaded	Welded
12	+2	482	.375	Steel	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
12	582	622	.375	Steel	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
12	627	632	.375	Steel	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
12	652	659	.375	Steel	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

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

9. PERFORATIONS/SCREENS:

Perforations ☐ Y ☒ N MethodManufactured screen ☒ Y ☐ N Type Johnson wire wrap

Method of installation Lower in

From (ft)	To (ft)	Slot size	Number/ft	Diameter (nominal)	Material	Gauge or Schedule
482	582	.025		12	S.S.	
622	627	.025		12	S.S.	
632	652	.025		12	S.S.	

Length of Headpipe Length of Tailpipe 5'

Packer ☐ Y ☒ N Type

10. FILTER PACK:

Filter Material	From (ft)	To (ft)	Quantity (lbs or ft ³)	Placement method
#8-16 Sand	465	674	37,800	Dry pour

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) 424 Static water level (ft) 424

Water temp. (°F) 76° Bottom hole temp. (°F) 83° @ 740'

Describe access port Baker well cap

Well test:

Drawdown (feet)	Discharge or yield (gpm)	Test duration (minutes)
72	550	180

Test method:

Pump	Bailer	Air	Flowing artesian
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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
20	0	4	Top soil		X
20	4	6	Caliche		X
20	6	10	Sand, gravel		X
20	10	19	Brown clay		X
20	19	25	Cemented sand, gravel		X
20	25	37	Black cinders, small white ash streak		X
20	37	104	Brown clay w/sand, gravel streaks		X
20	104	144	Fine-med sand some coarse gravel		X
20	144	271	Brown clay w/fine brn sand streaks		X
20	271	307	Fine - medium brown sand		X
20	307	321	Brown clay		X
20	321	355	Fine - medium brown sand		X
20	355	373	Brown clay		X
20	373	400	Blue clay		X
20	400	460	Fine - medium brown sand	X	
20	460	467	Blue clay		X
20	467	475	Fine blue sand	X	
20	475	488	Blue clay		X
20	488	581	Fine-med blue sand w/clay streaks	X	
20	581	621	Blue clay w/ fine blue sand streak		X
20	621	627	Fine blue sand	X	
20	627	632	Sandy blue clay		X
20	632	652	Fine blue sand w/cemented clay	X	
20	652	659	Blue clay w/ sandstone seams		X
20	659	664	Fine - medium sand	X	
20	664	673	Grey clay		X
20	673	677	Fine grey sand	X	
20	677	682	Sandy grey clay w/cemented layers		X
20	682	690	Grey clay		X
20	690	695	Grey sandstone		X
20	695	736	Grey clay		X
20	736	740	Sandy grey clay, grey sandstone		X

Completed Depth (Measurable): 669'

Date Started: Jun 28, 2011 Date Completed: Aug 26, 2011

14. DRILLER'S CERTIFICATION:

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

Company Name Riverside Inc Co. No. 333

*Principal Driller Date 9-14-11

*Driller Date 9/14/11

*Operator II Date

Operator I Date 9/14/11

Signature of Principal Driller and rig operator are required.

SEP 16 2011

WATER RESOURCES
WESTERN REGION

Form 238-7
11/97

IDAHO DEPARTMENT OF WATER RESOURCES WELL DRILLER'S REPORT

065741

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

1. WELL TAG NO. D 0007373 pg 1
DRILLING PERMIT NO. 63-98-W 0501-000
Other IDWR No. _____

2. OWNER:
Name Leunissen Beranna Dany
Address 16754 Holliston Ave
City Corona State CA Zip 91720

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

W Twp. 2 North ☒ or South ☐
Rge. 3 East ☐ or West ☒
Sec. 17 NE 1/4 NE 1/4 1/4
Gov't Lot _____ County Canyon
Lat: _____ Long: _____
Address of Well Site Closed address to well
9168 Perch Ln City Caladwell
(Give at least name of road + distance to road or landmark)

Li. _____ Blk. _____ Sub. Name _____

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

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

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

7. SEALING PROCEDURES

SEAL/FILTER PACK	AMOUNT	METHOD
Material	From To Sacks or Pounds	
<u>Bentonite</u>	<u>0</u> <u>20</u> <u>1250*</u>	<u>Overhaul</u>

Was drive shoe used? ☒ Y ☐ N Shoe Depth(s) 140 & 505
Was drive shoe seal tested? ☒ Y ☐ N How? _____

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
<u>8"</u>	<u>+2</u>	<u>506</u>	<u>250</u>	<u>Steel</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<u>12"</u>	<u>+1</u>	<u>139</u>	<u>250</u>	<u>Steel</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Length of Headpipe _____ Length of Tailpipe _____

9. PERFORATIONS/SCREENS

Perforations _____ Method _____
Screens _____ Screen Type Nagarka

From	To	Slot Size	Number	Diameter	Material
<u>503</u>	<u>518</u>	<u>10/16</u>		<u>5"</u>	<u>SS</u>

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AUG 17 1998
WATER RESOURCES
WESTERN REGION

10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

272 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
<u>150-200</u>			<u>1 hr</u>

Water Temp. 72° Bottom hole temp. _____
Water Quality test or comments: Iron 2 PH 7.5
Grains 8 Depth first Water Encounter 354

12. LITHOLOGIC LOG: (Describe repairs or abandonment)

Bore Dia	From	To	Remarks: Lithology, Water Quality & Temperature	Y	N
<u>16"</u>	<u>0</u>	<u>15</u>	<u>Top soil</u>		
<u>16"</u>	<u>15</u>	<u>20</u>	<u>Sand & gravel</u>		
<u>12"</u>	<u>20</u>	<u>50</u>	<u>Sand & gravel</u>		
<u>4"</u>	<u>50</u>	<u>61</u>	<u>Sand, gravel & clay</u>		
<u>"</u>	<u>61</u>	<u>105</u>	<u>Tan clay</u>		
<u>"</u>	<u>105</u>	<u>133</u>	<u>Coarse sand & clay</u>		
<u>4"</u>	<u>133</u>	<u>275</u>	<u>Coarse sand & medium clay</u>		
<u>"</u>	<u>275</u>	<u>300</u>	<u>clay w/ sand pockets</u>		
<u>8"</u>	<u>300</u>	<u>305</u>	<u>Lt Blue clay</u>		
<u>"</u>	<u>305</u>	<u>315</u>	<u>creosote w/ clay</u>		
<u>4"</u>	<u>315</u>	<u>320</u>	<u>Dark blue clay</u>		
<u>"</u>	<u>320</u>	<u>327</u>	<u>Lt Blue clay</u>		
<u>"</u>	<u>327</u>	<u>345</u>	<u>Blue & brown clay w/ coarse sand</u>		
<u>"</u>	<u>345</u>	<u>348</u>	<u>clay</u>		
<u>"</u>	<u>348</u>	<u>349</u>	<u>Sand</u>		
<u>"</u>	<u>349</u>	<u>354</u>	<u>clay</u>		
<u>"</u>	<u>354</u>	<u>360</u>	<u>Sand w/ short clay layers</u>	<input checked="" type="checkbox"/>	
<u>"</u>	<u>360</u>	<u>361</u>	<u>clay</u>		
<u>"</u>	<u>361</u>	<u>364</u>	<u>Sand</u>		
<u>4"</u>	<u>364</u>	<u>368</u>	<u>clay</u>		
<u>"</u>	<u>368</u>	<u>380</u>	<u>Sand</u>		<input checked="" type="checkbox"/>
<u>4"</u>	<u>380</u>	<u>390</u>	<u>clay</u>		
<u>"</u>	<u>390</u>	<u>395</u>	<u>Brownish sand</u>		<input checked="" type="checkbox"/>
<u>"</u>	<u>395</u>	<u>397</u>	<u>clay</u>		
<u>"</u>	<u>397</u>	<u>406</u>	<u>Brownish sand</u>		<input checked="" type="checkbox"/>
<u>"</u>	<u>406</u>	<u>408</u>	<u>clay - blue</u>		
<u>"</u>	<u>408</u>	<u>419</u>	<u>Sand & sand stone pieces</u>		<input checked="" type="checkbox"/>
<u>"</u>	<u>419</u>	<u>426</u>	<u>Clay - Blue</u>		
<u>"</u>	<u>426</u>	<u>439</u>	<u>Sandy clay w/ sand stone pieces</u>		
<u>"</u>	<u>439</u>	<u>438</u>	<u>clay w/ creosote</u>		<input checked="" type="checkbox"/>
<u>"</u>	<u>438</u>	<u>449</u>	<u>clay - blue</u>		
<u>"</u>	<u>445</u>	<u>449</u>	<u>blue clay w/ short sand strata</u>		
NOV 04 1998 Continued on page 2					
Completed		Depth	(Measurable)		
Date: Started		<u>7-23-98</u>	Completed <u>8-6-98</u>		

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 Adamson Pump & Drill Firm No. 0457
Firm Official Dave Adamson Date 8-13-98
and
Driller or Operator DAVE ADAMSON Date 8-13-98
(Sign once if Firm Official & Operator)

Form 238-7
11/97

IDAHO DEPARTMENT OF WATER RESOURCES

WELL DRILLER'S REPORT

065742

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

1. WELL TAG NO. D 0007372 pg 2
DRILLING PERMIT NO. 63-98-W-0521-000
Other IDWR No. _____

2. OWNER:
Name Jeunisson Beranna Dairy
Address 16454 Hillman Ave
City Corona State CA Zip 91720

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. 3 East ☐ or West ☒
Sec. 17 NE 1/4 NE 1/4 1/4
Gov't Lot _____ County Canyon
Lat: _____ Long: _____

Address of Well Site Closest address is
Well is 9168 Perch Ln City Caldwell
(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	From To	Sacks or Pounds	
<u>Bentonite</u>	<u>0</u> <u>20</u>	<u>1250</u>	<u>1250</u>	<u>Overhaul</u>

Was drive shoe used? ☒ N ☐ Shoe Depth(s) 140 & 505

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

8. CASING/LINER:

Diameter	From To	Gauge	Material	Casing	Liner	Welded	Threaded
<u>8"</u>	<u>+2</u> <u>506</u>	<u>250</u>	<u>Steel</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<u>12"</u>	<u>+1</u> <u>139</u>	<u>250</u>	<u>Steel</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Length of Headpipe _____ Length of Tailpipe _____

9. PERFORATIONS/SCREENS

Perforations _____ Method _____
Screens _____ Screen Type Togawa

From To	Slot Size	Number	Diameter	Material	Casing	Liner
<u>503</u> <u>518</u>	<u>016</u>		<u>5"</u>	<u>SS</u>	<input type="checkbox"/>	<input type="checkbox"/>

10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

272 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
<u>150-200</u>			<u>1 hr</u>

Water Temp. 72° Bottom hole temp. _____

Water Quality test or comments: Iron 2 PH 7.5

Grains 8 Depth first Water Encounter 354

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

Bore Dia.	From	To	Remarks: Lithology, Water Quality & Temperature	Y	N
			<u>Continued from page 1</u>		
	<u>8</u>	<u>449</u>	<u>467</u> <u>Clay-very hard silty Blue Clay</u>		
		<u>467</u>	<u>485</u> <u>Blue sand in clay layers</u>	<input checked="" type="checkbox"/>	
		<u>485</u>	<u>487</u> <u>Blue Clay</u>		
		<u>487</u>	<u>490</u> <u>Blue sand</u>		
		<u>490</u>	<u>492</u> <u>Blue Clay</u>		
		<u>492</u>	<u>494</u> <u>sand</u>		
		<u>494</u>	<u>505</u> <u>Clay</u>		
		<u>505</u>	<u>518</u> <u>sand</u>	<input checked="" type="checkbox"/>	

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RECEIVED

SEP 14 1998

AUG 17 1998

Department of Water Resources

WATER RESOURCES
WESTERN REGION

Completed _____ Depth 518 (Measurable)
Date: Started 7-23-98 Completed 8-6-98

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 Adamson Pump & Drill Firm No. 0457

Firm Official Steve Adamson Date 8-13-98

and Driller or Operator DAVE ADAMSON Date 8-13-98

(Sign once if Firm Official & Operator)

IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

59448

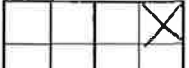
1. WELL TAG NO. D 0000 294
 DRILLING PERMIT NO. 63-97-C-0881 - 200
 Other IDWR No. 63-033666

2. OWNER:

2. **OWNER.**
Name TEUNISSEN - BERANNA DAIRY
Address 9106 Perch
City Caldwell State ID Zip 83607

3. LOCATION OF WELL by legal description:

Sketch map location must agree with written location.


 Twp. 2 North ☒ or South ☐
 Rge. 3 East ☐ or West ☒
 Sec. 17 $\frac{1}{4}$ NE $\frac{1}{4}$ NE $\frac{1}{4}$
10 acres 40 acres 160 acres
 Gov't Lot _____ County Canyon
 Lat _____ Long _____
 Address of Well Site Peach Lane
 City Caldwell

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 *Reverse*

7. SEALING PROCEDURES

SEAL/FILTER PACK		AMOUNT		METHOD
Material	From	To	Sacks or Pounds	
Bentonite 5/8"	0	350'	50,000*	OVERBORE
*B # 110				
Filter sand	350'	1650'	36,000*	OVERBORE

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

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
16"	+ 6'	535'	37.5	Steel	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
16"	545'	590'	37.5	Steel	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
16"	640'	650'	37.5	Steel	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Length of Headpipe 541' Length of Tailpipe 10'

9. PERFORATIONS/SCREENS

Perforations

Method

WIRE WRAP

Screens

Screen Type

Johnson S.S.

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
535'	545'	.035		16"	S.S.	<input type="checkbox"/>	<input type="checkbox"/>
590'	640'	.035		16"	S.S.	<input type="checkbox"/>	<input type="checkbox"/>
						<input type="checkbox"/>	<input type="checkbox"/>

10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

220 ft. below ground Artesian pressure _____ lb.
Depth flow encountered _____ ft. Describe access port or
control devices: 2" PIPE & CUP

11. WELL TESTS:

☐ Pump ☐ Bailer ☐ Air ☐ Flowing Artesian

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

Water Temp. _____ Bottom hole temp. _____

Water Quality test or comments:

Depth first Water Encounter

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

Bore Dia.	From	To	Remarks: Lithology, Water Quality & Temperature	Y	N
26"	0	3	TOP SOIL		
	3	26	HARD CLAY & GRAVEL		
	26	63	SAND & GRAVEL		
	63	113	BRN. CLAY & SAND STKS		
	113	145	SAND & GRAVEL STKS CLAY		
	145	228	SAND & CLAY LAYERS		
	228	330	Blue & BRN. CLAY		
	330	334	COARSE SAND		X
	334	384	Blue clay		
	384	470	Blue clay stks Sand		
	470	482	Fine Sand		X
	482	537	CLAY & SAND STKS		
	537	548	SAND & SAND BUTTONS		X
	548	590	Blue clay sand stks		
	590	640	SAND FINE & MEDIUM		X
	640	660	Blue clay stks. Sand		
RECEIVED					
DEC 13 1999					
Department of Water Resources					
MICROFILM					
Completed	Depth		650'	(Measurable)	
Date: Started	11/15/99		Completed	11/29/99	

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 Riverside Inc. Firm No. 333

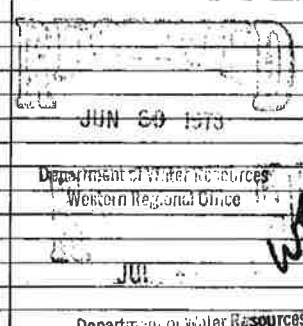
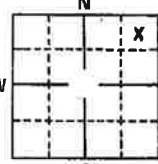
Firm Official [Signature] Date 12-9-99

and 
Driller or Operator Date

(Sign once if Firm Official & Operator)

FORWARD WHITE COPY TO WATER RESOURCES

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

1. WELL OWNER Name <u>JAMES KRAFT</u> Address <u>423 3rd Rd North Nampa</u> Owner's Permit No. _____	7. WATER LEVEL Static water level <u>200</u> feet below land surface. Flowing? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No G.P.M. flow _____ Artesian closed-in pressure _____ p.s.i. Controlled by: <input type="checkbox"/> Valve <input type="checkbox"/> Cap <input type="checkbox"/> Plug Temperature _____ °F. Quality _____																																																																													
2. NATURE OF WORK <input checked="" type="checkbox"/> New well <input type="checkbox"/> Deepened <input type="checkbox"/> Replacement <input type="checkbox"/> Abandoned (describe method of abandoning) _____	8. WELL TEST DATA <input type="checkbox"/> Pump <input type="checkbox"/> Bailor <input checked="" type="checkbox"/> Air <input type="checkbox"/> Other _____																																																																													
3. PROPOSED USE <input checked="" type="checkbox"/> Domestic <input type="checkbox"/> Irrigation <input type="checkbox"/> Test <input type="checkbox"/> Municipal <input type="checkbox"/> Industrial <input type="checkbox"/> Stock <input type="checkbox"/> Waste Disposal or Injection <input type="checkbox"/> Other _____ (specify type) _____	<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;">3</td> <td></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>	Discharge G.P.M.	Pumping Level	Hours Pumped	3		2																																																																							
Discharge G.P.M.	Pumping Level	Hours Pumped																																																																												
3		2																																																																												
4. METHOD DRILLED <input checked="" type="checkbox"/> Rotary <input type="checkbox"/> Air <input type="checkbox"/> Hydraulic <input type="checkbox"/> Reverse rotary <input type="checkbox"/> Cable <input type="checkbox"/> Dug <input type="checkbox"/> Other _____	9. LITHOLOGIC LOG <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2">Hole Diam.</th> <th colspan="2">Depth</th> <th rowspan="2">Material</th> <th rowspan="2">Water Yes No</th> </tr> <tr> <th>From</th> <th>To</th> </tr> </thead> <tbody> <tr><td>8"</td><td>0'</td><td>19'</td><td>Sandy clay</td><td></td></tr> <tr><td>6"</td><td>19'</td><td>57'</td><td>Sandy clay</td><td></td></tr> <tr><td>6"</td><td>57'</td><td>60'</td><td>Hard brown clay</td><td></td></tr> <tr><td>6"</td><td>60'</td><td>116'</td><td>Clay-soft seams & sand</td><td></td></tr> <tr><td>6"</td><td>116'</td><td>154'</td><td>Seams of clay</td><td></td></tr> <tr><td>6"</td><td>134'</td><td>140'</td><td>Clay</td><td></td></tr> <tr><td>6"</td><td>140'</td><td>174'</td><td>Clay & sand seams</td><td></td></tr> <tr><td>6"</td><td>174'</td><td>177'</td><td>Clay</td><td></td></tr> <tr><td>6"</td><td>177'</td><td>214'</td><td>Sand & clay layers</td><td>X</td></tr> <tr><td>6"</td><td>214'</td><td>217'</td><td>Clay</td><td>X</td></tr> <tr><td>6"</td><td>217'</td><td>255'</td><td>Sand & clay layers</td><td>X</td></tr> <tr><td>6"</td><td>255'</td><td>288'</td><td>Sand-hard seam clay</td><td>X</td></tr> <tr><td>6"</td><td>288'</td><td>335'</td><td>Brown clay</td><td>X</td></tr> <tr><td>6"</td><td>335'</td><td>524'</td><td>Shale</td><td>X</td></tr> </tbody> </table>	Hole Diam.	Depth		Material	Water Yes No	From	To	8"	0'	19'	Sandy clay		6"	19'	57'	Sandy clay		6"	57'	60'	Hard brown clay		6"	60'	116'	Clay-soft seams & sand		6"	116'	154'	Seams of clay		6"	134'	140'	Clay		6"	140'	174'	Clay & sand seams		6"	174'	177'	Clay		6"	177'	214'	Sand & clay layers	X	6"	214'	217'	Clay	X	6"	217'	255'	Sand & clay layers	X	6"	255'	288'	Sand-hard seam clay	X	6"	288'	335'	Brown clay	X	6"	335'	524'	Shale	X
Hole Diam.	Depth		Material	Water Yes No																																																																										
	From	To																																																																												
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6"	288'	335'	Brown clay	X																																																																										
6"	335'	524'	Shale	X																																																																										
5. WELL CONSTRUCTION Casing schedule: <input checked="" type="checkbox"/> Steel <input type="checkbox"/> Concrete <input type="checkbox"/> Other _____ <table style="width: 100%;"> <tr> <th>Thickness</th> <th>Diameter</th> <th>From</th> <th>To</th> </tr> <tr> <td><u>.250</u> inches</td> <td><u>6</u> inches</td> <td><u>10</u> feet</td> <td><u>500 ± 5</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> </table> Was casing drive shoe used? <input type="checkbox"/> Yes <input type="checkbox"/> No Was a packer or seal used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Perforated? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No How perforated? <input type="checkbox"/> Factory <input type="checkbox"/> Knife <input type="checkbox"/> Torch Size of perforation _____ inches by _____ inches <table style="width: 100%;"> <tr> <th>Number</th> <th>From</th> <th>To</th> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </table> Well screen installed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Size of gravel _____ Placed from _____ feet to _____ feet Surface seal depth <u>19</u> Material used in seal: <input type="checkbox"/> Cement grout <input checked="" type="checkbox"/> Puddling clay <input checked="" type="checkbox"/> Well cuttings Sealing procedure used: <input type="checkbox"/> Slurry pit <input type="checkbox"/> Temp. surface casing <input checked="" type="checkbox"/> Overbore to seal depth Method of joining casing: <input type="checkbox"/> Threaded <input checked="" type="checkbox"/> Welded <input type="checkbox"/> Solvent Weld <input type="checkbox"/> Cemented between strata Describe access port _____	Thickness	Diameter	From	To	<u>.250</u> inches	<u>6</u> inches	<u>10</u> feet	<u>500 ± 5</u> feet													Number	From	To										<div style="text-align: center;">  <p>JUN 20 1978</p> <p>Department of Water Resources Western Regional Office</p> <p>JUL 1978</p> <p>Department of Water Resources Western Regional Office</p> </div>																																													
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USE ADDITIONAL SHEETS IF NECESSARY — FORWARD THE WHITE COPY TO THE DEPARTMENT



JAN 21 1976

State of Idaho
Department of Water Administration

WELL DRILLER'S REPORT

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

Department of Water Resources

1. WELL OWNER Name <u>John Johnson</u> Address _____ Owner's Permit No. <u>63-8232</u>		7. WATER LEVEL Static water level <u>161</u> feet below land surface Flowing? <input type="checkbox"/> Yes <input type="checkbox"/> No G.P.M. flow _____ Temperature _____ ° F. Quality _____ Artesian closed-in pressure _____ p.s.i. Controlled by <input type="checkbox"/> Valve <input type="checkbox"/> Cap <input type="checkbox"/> Plug																																																																																																																																																					
2. NATURE OF WORK <input checked="" type="checkbox"/> New well <input type="checkbox"/> Deepened <input type="checkbox"/> Replacement <input checked="" type="checkbox"/> Abandoned (describe method of abandoning) <u>Casing pulled backfilled with Puddling Clay to from 8 to 100'</u>		8. WELL TEST DATA <input type="checkbox"/> Pump <input type="checkbox"/> Bailer <input type="checkbox"/> 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																																																																																																																																																	
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11. DRILLER'S CERTIFICATION Firm Name <u>PETE COPE DRILLING CO., INC.</u> Firm No. <u>213</u> <u>P.O. Box 561</u> Address <u>Meridian, Idaho 83642</u> Date <u>11/11/75</u> Signed by (Firm Official) <u>Pete Cope</u> and <u>Ed Mueller</u> (Operator) <u>Pete Cope</u>																																																																																																																																																							

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 Administration within 30 days after the completion or abandonment of the well.

Received
12/19/72
WJ

1. WELL OWNER

Name John Johnson

Address Caldwell, Idaho 83605

Owner's Permit No. _____

2. NATURE OF WORK

☒ Redrill

☐ Deepened

☐ Replacement

☐ Abandoned (describe method of abandoning)

3. PROPOSED USE

☐ Domestic

☒ Irrigation

☐ Test

☐ Municipal

☐ Industrial

☐ Stock

4. METHOD DRILLED

☐ Cable

☒ Reverse Rotary

☐ Dug

☐ Other

5. WELL CONSTRUCTION

Diameter of hole 25 inches

Total depth 591 feet

Casing schedule: ☒ Steel ☐ Concrete

Thickness	Diameter	From	To
<u>.250</u> inches	<u>16</u> inches	<u>+ 18</u> feet	<u>321</u> feet
<u>.250</u> inches	<u>16</u> inches	<u>369</u> feet	<u>423</u> feet
<u>.250</u> inches	<u>16</u> inches	<u>474</u> feet	<u>565</u> feet
<u>.250</u> inches	<u>16</u> inches	<u>580</u> feet	<u>590</u> 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 Roscow Moss Free Flow

Type Free Flow 1/8 Perf. Model No. _____

Diameter 16 Slot size _____ Set from 321 feet to 369 feet

Diameter 16 Slot size _____ Set from 423 feet to 474 feet

16 _____ 565 _____ 580 _____

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

Placed from Top feet to Bottom feet

Surface seal? ☒ Yes ☐ No To what depth 18 1/2 feet

Material used in seal ☒ Cement grout ☐ Puddling clay

6. LOCATION OF WELL

Sketch map location must agree with written location.

N

W

E

S

County Canyon

W 1/2 SW 16 Sec. 16, T. 2 N. 1/4 R. 3 W

7. WATER LEVEL

Static water level 335 feet below land surface

Flowing? ☐ Yes ☐ No G.P.M. flow _____

Temperature _____ ° F. Quality _____

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

Controlled by ☐ Valve ☐ Cap ☐ Plug

8. WELL TEST DATA

☒ Pump ☐ Bailer ☐ Other

Discharge G.P.M.	Draw Down	Hours Pumped
<u>2000</u>	<u>390</u>	<u>6</u>

9. LITHOLOGIC LOG

038233

Hole Diam.	Depth		Material	Water	
	From	To		Yes	No
	0	5	Top Soil		
	5	9	Hard Pan		
	9	19	Gravel, Clay & Cinders		
	19	21	Clay & Cinders		
	21	26	Gravel, Clay & Cinders		
	26	36	Cinders small gravel		
	36	38	Cemented gravel & Cinders		
	38	44	Semi Cemented Gravel		
	44	51	Hard Sandy Clay & Some Gravel		
	51	52	Cinders, sand & occ. rock		
	52	62	Coarse sand		
	62	70	Hard little sand stone		
	70	73	Lt. Green Clay		
	73	78	Sandy Clay		
	78	84	Fine dark sand		
	84	89	Silt stone (Hard) Lt. Green		
	89	104	Green Clay		
	104	130	Fine Gray Brown Sand		
	130	131	Clay		
	131	151	Brown Sand		
	151	152	Sand Small Gravel		
	152	155	Green clay		
	155	159	Fine Brown Sand		
	159	164	Medium Sand		
	164	166	Shaly hard green sandstone		
	166	172	Green Shaley Clay		
	172	173	Brown Clay		
	173	201	Lt. Green Clay		
	201	231	Shaley Green C lay		
	231	252	Clay (Softer)		
	252	254	Extra Fine Dark Brown Sand		
	254	268	Green Clay		
	268	271	Med. to Coarse Sand		
	271	296	Shaley Green Clay		
	296	300	Extra Fine Brown Sand		
	300	302	Green Clay		
	302	303	Extra Fine Brown Sand		

10.

Work started 11/22/72 finished 11/30/72

11. DRILLER'S CERTIFICATION

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

Pete Cope Drilling Company

213

Driller's or Firm's Name

Number

P.O. Box 561 - Meridian, Idaho 83642

Address

Signed By Pete Cope

Date

WELL DRILLER'S REPORT

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

[illegible]

WELL LOG AND REPORT OF THE STATE RECLAMATION ENGINEER OF IDAHO

Permit No. 9-57733 Well No. _____ County Canyon

034927

Locate well in section

Owner John Johnson
Address Route 6 Caldwell Idaho
Driller Dana Well Drilling (Leonard)
Address 273 Dana Ave Nampa Idaho
Well location W 1/2 SW 1/4 Sec. 16, T. 2 N. R. 3 E. 1/4
Size of drilled hole 16 in

NW 1/4	NE 1/4
SW 1/4	SE 1/4

Total depth of well 575 ft
Give depth to standing water from the ground 250 ft Water temp. _____ °Fahr.

On "Pumping Test" delivery was _____ g.p.m. or _____ c.f.s. Drawdown was _____ feet.

Size of pump and motor used to make test I don't have the test report

Length of time of test _____ hours _____ minutes.

If flowing well, give flow _____ c.f.s. or _____ g.p.m. and of shut off pressure _____

If flowing well, described control works _____

(TYPE AND SIZE OF VALVE, ETC.)

Water will be used for Irrigation Weight of casing per lineal foot 23.8 14 in

Thickness of casing 10 gauge Casing material steel

(STEEL, CONCRETE, WOOD, ETC.)

Diameter, length and location of casing 400 ft 16 in - 102 ft 14 in
(CASING 12" IN DIAMETER OR LESS, GIVE INSIDE DIAMETER;
CASING OVER 12" IN DIAMETER, GIVE OUTSIDE DIAMETER)

CASING RECORD

Diam. Casing	From Feet	To Feet	Length	Remarks—seals, grouting, etc.
16 in	Surface	400 ft	400 ft	
	383 ft	485	102 ft	

Number and size of perforations 8 rows 1" x 1 1/4" located 250 feet to 340 feet from ground

10 rows 1" x 1 1/4" 360 380
14" 12 rows 1" x 1 1/4" 415 480

Date of commencement of well Feb. 1963 Date of completion of well May 1963

W 1/2 SW 1/4 Sec 16 T 2 N R 3 E

WELL LOG

From Feet	To Feet	Type of Material	Water-bearing Formation Ans. Yes or No	Casing Perforated Ans. Yes or No
Surf	4	Top soil		
4	12	Sandy loam		
12	21	Sandy soil		
21	72	Gravel & clay		
72	85	Hard yellow clay		
85	125	Sandy clay		
125	138	Dirty sand		
138	180	Coarse sand		
180	208	Sandy clay		
208	260	Hard yellow clay		
260	285	Sandy clay	yes	
285	295	Fine & coarse sand	yes	
295	315	Sandy hard clay	yes	
315	325	Hard blue clay		
325	340	Sand & shale	yes	
340	360	Dirty sand	yes	
360	370	Coarse sand	yes	
If more space is required use Sheet No. 2				

WELL DRILLER'S STATEMENT

This well was drilled under my supervision and the above information is true and correct to the best of my knowledge and belief.

Signed Darius Well Drilling
By Wilma Darius

Dated June 20, 1963.

License No. 100

SHEET NO. 2

Well Owner: John Johnson
Well Driller: Dana Well Drilling
Well Location: 273 N 816 W SW

Well Driller

Well Location

034928

WELL LOG

[illegible]

RECEIVED
DEC 19 1962

WELL LOG AND REPORT OF THE
STATE RECLAMATION ENGINEER OF IDAHO

Department of Reclamation

Permit No. 937209 Well No. _____ County Canyon
Owner George Johnson
Address Route 4, Caldwell, Idaho
Driller Dana Will Drilling
Address 273 Dana Ave,ampa Idaho
Well location E¹/₂ NW¹/₄ Sec. 16, T. 2 N. R. 3 W
Size of drilled hole 14 in

034929

Locate well in section

NW ¹ / ₄	NE ¹ / ₄
SW ¹ / ₄	SE ¹ / ₄

Total depth of well 345 ft

Give depth to standing water from the ground 112 ft Water temp. _____ °Fahr.

On "Pumping Test" delivery was 910 g.p.m. or 2 c.f.s. Drawdown was 113 feet.

Size of pump and motor used to make test 10" 200 HP Engine.

Length of time of test 29 hours 30 minutes.

If flowing well, give flow _____ c.f.s. or _____ g.p.m. and of shut off pressure _____

If flowing well, described control works _____

(TYPE AND SIZE OF VALVE, ETC.)

Water will be used for irrigation Weight of casing per lineal foot _____

Thickness of casing 10 gauge Casing material steel
(STEEL, CONCRETE, WOOD, ETC.)

Diameter, length and location of casing 176 ft 14 in 128 ft 12 in
(CASING 12" IN DIAMETER OR LESS, GIVE INSIDE DIAMETER;
CASING OVER 12" IN DIAMETER, GIVE OUTSIDE DIAMETER)

CASING RECORD

Diam. Casing	From Feet	To Feet	Length	Remarks—seals, grouting, etc.
14 in	Surface	176 ft	176 ft	
12 in	155 ft	283 ft	128 ft	

Number and size of perforations 1" x $\frac{1}{4}$ " located 112 feet to 120 feet from ground

1" x $\frac{1}{4}$ " 135 150
2" x $\frac{1}{16}$ " 159 279

Date of commencement of well Nov 1962 Date of completion of well Dec 1962

E¹/₂ NW S. 16 2N 3W

WELL LOG

From Feet	To Feet	Type of Material	Water-bearing Formation Ans. Yes or No	Casing Perforated Ans. Yes or No
Surface	4	Top soil		
4	20	Cement gravel		
20	42	Loose sand & gravel		
42	47	Coarse sand		
47	64	Sand & gravel		
64	78	Hard yellow clay		
78	95	Sandy clay		
95	107	Fine sand		
107	122	Sandy clay		
122	135	Fine & coarse sand & gravel	yes	
135	152	Coarse sand & joint clay	yes	
152	160	Hard yellow clay		
160	172	Joint clay & sand	yes	
172	220	Yellow clay		
220	246	Sand, joint clay & shale	yes	
240	246	Hard blue clay		
245	272	Sand & shale		
272	283	Hard sandstone		
If more space is required use Sheet No. 2				

WELL DRILLER'S STATEMENT

This well was drilled under my supervision and the above information is true and correct to the best of my knowledge and belief.

Signed Darius Well Drilling
By Wilma Darius

Dated Dec 19, 1962

License No. 100

Well Owner George Johnson
Well Driller Davis Well Drilling
Well Location 2737 S 16
E 1/4 9th

Well Location

034930

[illegible]

RECEIVED

APR 27 1962

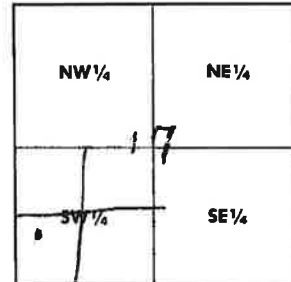
WELL LOG AND REPORT OF THE STATE RECLAMATION ENGINEER OF IDAHO

Department of Reclamation

034924

Permit No. _____ Well No. _____ County Canyon
 Owner Edwin & Shellen
 Address Rt 4 Caldwell
 Driller William L. Doty
 Address Rt. 5 Nampa
 Well location SW 1/4 SW 1/4 Sec. 17, T. 2 N. R. 3 E. W.
 Size of drilled hole 6"

Locate well in section



Total depth of well 215'

Give depth to standing water from the ground even Water temp. _____ °Fahr.

On "Pumping Test" delivery was 240 g.p.m. or _____ c.f.s. Drawdown was 100 feet.

Size of pump and motor used to make test 2 1/2 cylinder

Length of time of test 4 hours 1 minutes.

If flowing well, give flow _____ c.f.s. or _____ g.p.m. and of shut off pressure _____

If flowing well, described control works _____

(TYPE AND SIZE OF VALVE, ETC.)

Water will be used for Domestic Weight of casing per lineal foot _____

Thickness of casing 1.88 Casing material Steel

(STEEL, CONCRETE, WOOD, ETC.)

Diameter, length and location of casing 6"-133' 2' above grid level to

(CASING 12" IN DIAMETER OR LESS, GIVE INSIDE DIAMETER;
CASING OVER 12" IN DIAMETER, GIVE OUTSIDE DIAMETER)

131' below

CASING RECORD

Diam. Casing	From Feet	To Feet	Length	Remarks—seals, grouting, etc.
6"	2 ft. above	131 ft. Below	133	

Number and size of perforations _____ located _____ feet to _____ feet from ground

Date of commencement of well Nov. 5, 1961 Date of completion of well Nov. 17, 1961

SW SW 5.17 2 N 3 W

well

WELL LOG

[illegible]

WELL DRILLER'S STATEMENT

This well was drilled under my supervision and the above information is true and correct to the best of my knowledge and belief.

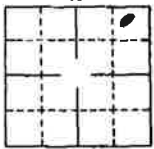
Signed Jesse J. Doty
By William C. Doty

Dated Mar. 23, 1961.

License No. 159

40

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>Reese Michelson</u> Address <u>Nampa Id</u> Owner's Permit No. _____	7. WATER LEVEL Static water level <u>45</u> feet below land surface. Flowing? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No G.P.M. flow _____ Artesian closed-in pressure _____ p.s.i. Controlled by: <input type="checkbox"/> Valve <input type="checkbox"/> Cap <input type="checkbox"/> Plug Temperature _____ °F. Quality _____ Describe artesian or temperature zones below.																												
2. NATURE OF WORK <input checked="" type="checkbox"/> New well <input type="checkbox"/> Deepened <input type="checkbox"/> Replacement <input type="checkbox"/> Abandoned (describe abandonment procedures such as materials, plug depths, etc. in lithologic log)	8. WELL TEST DATA <input type="checkbox"/> Pump <input type="checkbox"/> Bailer <input checked="" type="checkbox"/> Air <input type="checkbox"/> Other _____ Discharge G.P.M. <u>30</u> Pumping Level <u>—</u> Hours Pumped <u>1/2</u>																												
3. PROPOSED USE <input checked="" type="checkbox"/> Domestic <input type="checkbox"/> Irrigation <input type="checkbox"/> Test <input type="checkbox"/> Municipal <input type="checkbox"/> Industrial <input type="checkbox"/> Stock <input type="checkbox"/> Waste Disposal or Injection <input type="checkbox"/> Other _____ (specify type)	9. LITHOLOGIC LOG <u>87856</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>10</td><td>Overburden</td><td></td><td>X</td></tr><tr><td>8</td><td>10</td><td>30</td><td>Rock Lava</td><td></td><td>X</td></tr><tr><td>6</td><td>30</td><td>100</td><td>Lava Rock</td><td>X</td><td></td></tr></tbody></table>	Bore Diam.	Depth		Material	Water		From	To	Yes	No	8	0	10	Overburden		X	8	10	30	Rock Lava		X	6	30	100	Lava Rock	X	
Bore Diam.	Depth		Material	Water																									
	From	To		Yes	No																								
8	0	10	Overburden		X																								
8	10	30	Rock Lava		X																								
6	30	100	Lava Rock	X																									
4. METHOD DRILLED <input checked="" type="checkbox"/> Rotary <input checked="" type="checkbox"/> Air <input type="checkbox"/> Hydraulic <input type="checkbox"/> Reverse rotary <input type="checkbox"/> Cable <input type="checkbox"/> Dug <input type="checkbox"/> Other _____	<div style="text-align: center;">RECEIVED SEP 29 1986 Department of Water Resources Western Regional Office</div> <div style="text-align: center;">RECEIVED SEP 26 1986 Department of Water Resources</div>																												
5. WELL CONSTRUCTION Casing schedule: <input checked="" type="checkbox"/> Steel <input type="checkbox"/> Concrete <input type="checkbox"/> Other Thickness <u>.250</u> inches Diameter <u>6</u> inches From <u>2</u> feet To <u>30</u> feet Was casing drive shoe used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Was a packer or seal used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Perforated? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No How perforated? <input type="checkbox"/> Factory <input type="checkbox"/> Knife <input type="checkbox"/> Torch Size of perforation _____ inches by _____ inches Number _____ From _____ To _____ _____ perforations _____ feet _____ feet _____ perforations _____ feet _____ feet _____ perforations _____ feet _____ feet Well screen installed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Size of gravel _____ Placed from _____ feet to _____ feet Surface seal depth <u>30</u> Material used in seal: <input type="checkbox"/> Cement grout <input type="checkbox"/> Bentonite <input checked="" type="checkbox"/> Puddling clay <input type="checkbox"/> _____ Sealing procedure used: <input type="checkbox"/> Slurry pit <input type="checkbox"/> Temp. surface casing <input checked="" type="checkbox"/> Overbore to seal depth Method of joining casing: <input type="checkbox"/> Threaded <input checked="" type="checkbox"/> Welded <input type="checkbox"/> Solvent Weld _____ <input type="checkbox"/> 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> <u>NE 1/4 NE 1/4 Sec. 21, T. 2N, N/S, R. 3W, E/W.</u>	11. DRILLERS CERTIFICATION <u>02</u> I/We certify that all minimum well construction standards were complied with at the time the rig was removed. Firm Name <u>Holder Drilling</u> Firm No. <u>191</u> Address <u>Caldwell Id</u> Date <u>9/23/86</u> Signed by (Firm Official) <u>Ed Holder</u> and (Operator) <u>Some</u>																												

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

IDAHO DEPARTMENT OF WATER RESOURCES WELL DRILLER'S REPORT

1. WELL TAG NO. D 0070120
Drilling Permit No. 9703128-876425
Water right or injection well # _____

2. OWNER:
Name Juan Hultrom
Address 205 E. Ustick Rd.
City Caldwell State ID Zip 83605

3. WELL LOCATION:
Twp. 02 North ☒ or South ☐ Rge. 03 East ☐ or West ☒
Sec. 21 1/4 NE 1/4 NE 1/4

Gov't Lot _____ County Canyon
Lat. 43 30 ° 017 (Deg. and Decimal minutes)
Long. 116 41 ° 221 (Deg. and Decimal minutes)
Address of Well Site 205 E. Ustick Rd.
City Caldwell

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

5. TYPE OF WORK:
☒ New well ☐ Replacement well ☐ Modify existing well
☐ Abandonment ☐ Other _____

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

7. SEALING PROCEDURES:
Seal material 8 Bentonite From (ft) 0 To (ft) 38 Quantity (lbs or ft³) 1,000 Placement method/procedure dry pour

8. CASING/LINER:
Diameter (nominal) From (ft) To (ft) Gauge/Schedule Material Casing Liner Threaded Welded
6" +2 102 250 Steel ☒ ☐ ☐ ☒
10" 0 38 250 Steel ☒ ☐ ☐ ☒

Was drive shoe used? ☒ Y ☐ N Shoe Depth(s) 102

9. PERFORATIONS/SCREENS:
Perforations ☐ Y ☒ N Method _____
Manufactured screen ☒ Y ☐ N Type Johnson S.S.
Method of installation Wash down

From (ft)	To (ft)	Slot size	Number/ft	Diameter (nominal)	Material	Gauge or Schedule
<u>103</u>	<u>102</u>	<u>20th</u>		<u>5"</u>	<u>S.S.</u>	

Length of Headpipe 6' Length of Tailpipe 0
Packer ☒ Y ☐ N Type 3 rib K-Packer

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) 5 Static water level (ft) 6
Water temp. (°F) 52 Bottom hole temp. (°F) 52
Describe access port 6" Well Cap

Well test: Drawdown (feet) 45 Discharge or yield (gpm) 60 Test duration (minutes) 45
Test method: Pump ☐ Bailer ☐ Air ☒ Flowing artesian ☐

Water quality test or comments: Good water

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>10</u>	<u>0</u>	<u>5</u>	<u>Top soil</u>		<input checked="" type="checkbox"/>
	<u>5</u>	<u>34</u>	<u>Big gravel</u>	<input checked="" type="checkbox"/>	
	<u>34</u>	<u>38</u>	<u>Brown Clay</u>		<input checked="" type="checkbox"/>
<u>6</u>	<u>38</u>	<u>42</u>	<u>Brown Clay</u>		<input checked="" type="checkbox"/>
	<u>42</u>	<u>78</u>	<u>Sand</u>	<input checked="" type="checkbox"/>	
	<u>78</u>	<u>81</u>	<u>Brown Clay</u>		<input checked="" type="checkbox"/>
	<u>81</u>	<u>99</u>	<u>Sand</u>	<input checked="" type="checkbox"/>	
	<u>99</u>	<u>103</u>	<u>Brown Clay</u>		<input checked="" type="checkbox"/>
	<u>103</u>	<u>108</u>	<u>Sand</u>	<input checked="" type="checkbox"/>	

RECEIVED
MAY 16 2016
WATER RESOURCES
WESTERN REGION

Completed Depth (Measurable): 108'
Date Started: 8/22/2015 Date Completed: 8/28/2015

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 Patriot Well Drilling Co. No. 741

*Principal Driller [Signature] Date 5/13/2016

*Driller _____ Date _____

*Operator II _____ Date _____

Operator I _____ Date _____

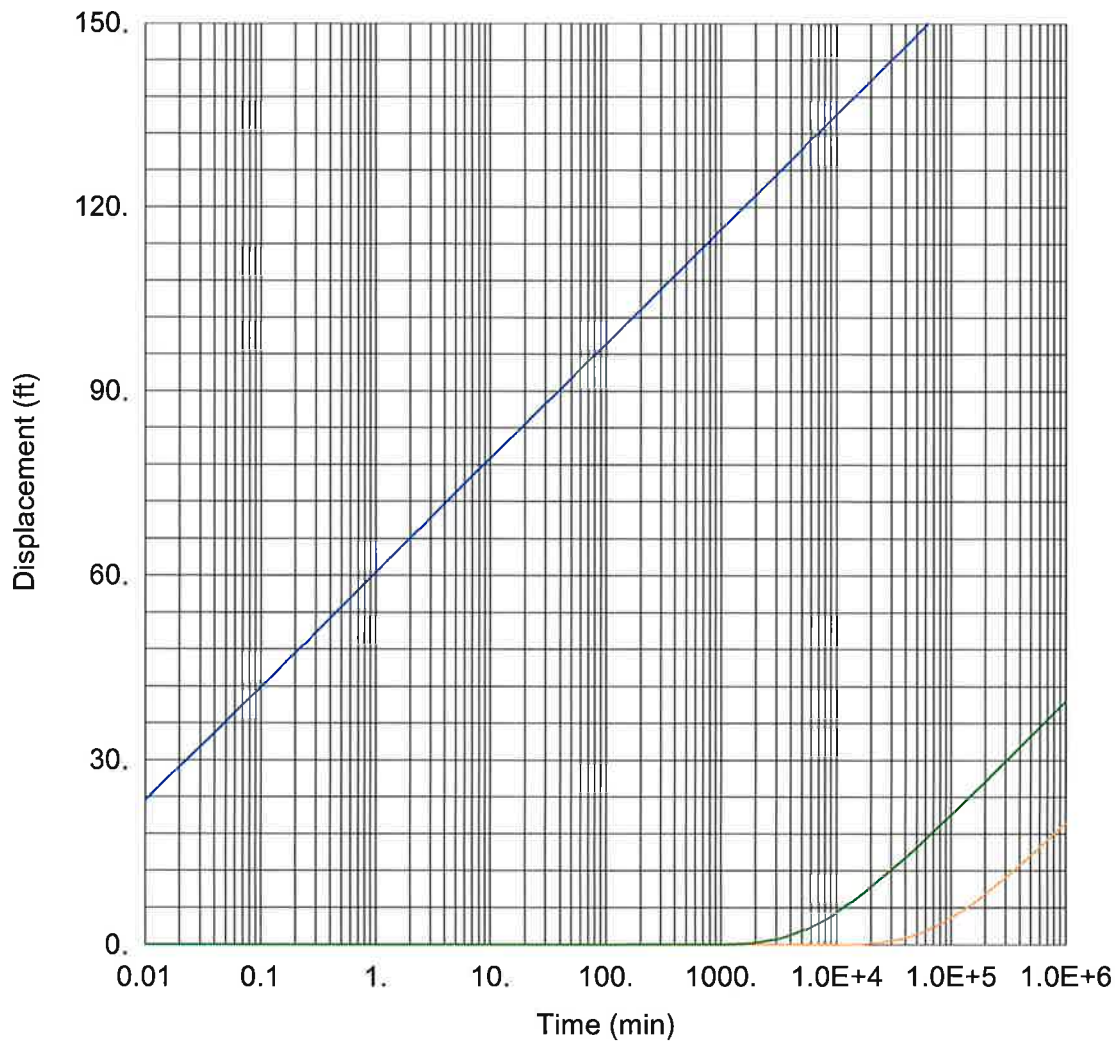
* Signature of Principal Driller and rig operator are required.

Attachment B: Theis Calculation of Transmissivity for Analysis

Transmissivity		Notes
Low Estimate	70 ft ² /day	Based on specific capacity data from Helfrich domestic supply well (Well 297925) @ 20 gpm (60 ft) and 30 gpm (95 ft) and aquifer thickness of 48 ft.
	2750 ft ² /day	Based on specific capacity data from Teunissen irrigation well (Well 417825) @ 700 gpm (74 ft) and aquifer thickness of 162 ft.
High Estimates	2129 ft ² /day	Based on specific capacity data from Teunissen commercial/stock well (Well 430692) @ 550 gpm (72 ft) and aquifer thickness of 209 ft.
	620 ft ² /day	Based on specific capacity data from Pickle Butte Farm irrigation well (Well 306253) @ 300 gpm (125 ft) and aquifer thickness of 180 ft.
	1833 ft ² /day	90 ft mean thickness

Permeability		Notes
1.5 ft/day	5.20E-04 cm/sec	Hydraulic conductivity (K) based on aquifer thickness of 48 ft (Helfrich well 297925) and transmissivity of specific capacity match of well at 20 and 30 gpm using Theis equation for confined flow
17.0 ft/day	6.00E-03 cm/sec	Hydraulic conductivity (K) based on aquifer thickness of 162 ft (Teunissen 417825 well) and transmissivity of specific capacity match of well at 700 gpm using Theis equation for confined flow
10.2 ft/day	3.60E-03 cm/sec	Hydraulic conductivity (K) based on aquifer thickness of 209 ft (Teunissen well 430692) and transmissivity of specific capacity match of well at 550 gpm using Theis equation for confined flow
3.4 ft/day	1.20E-03 cm/sec	Hydraulic conductivity (K) based on aquifer thickness of 180 ft (Pickle Butte Farm well 306253) and transmissivity of specific capacity match of well at 300 gpm using Theis equation for confined flow
10.2 ft/day	3.60E-03 cm/sec	mean

Attachment C: Aqtesolv V4 Pro Results



WELL TEST ANALYSIS

WELL DATA

Pumping Wells

Well Name	X (ft)	Y (ft)
298341 Stuart	670296.9516	2368969.216

Observation Wells

Well Name	X (ft)	Y (ft)
▣ 298341 Stuart	670296.9516	2368969.216
+ 297925 Helfrich	670397.9918	2365799.78
+ 300419 Snell	670063.148	2368087.113

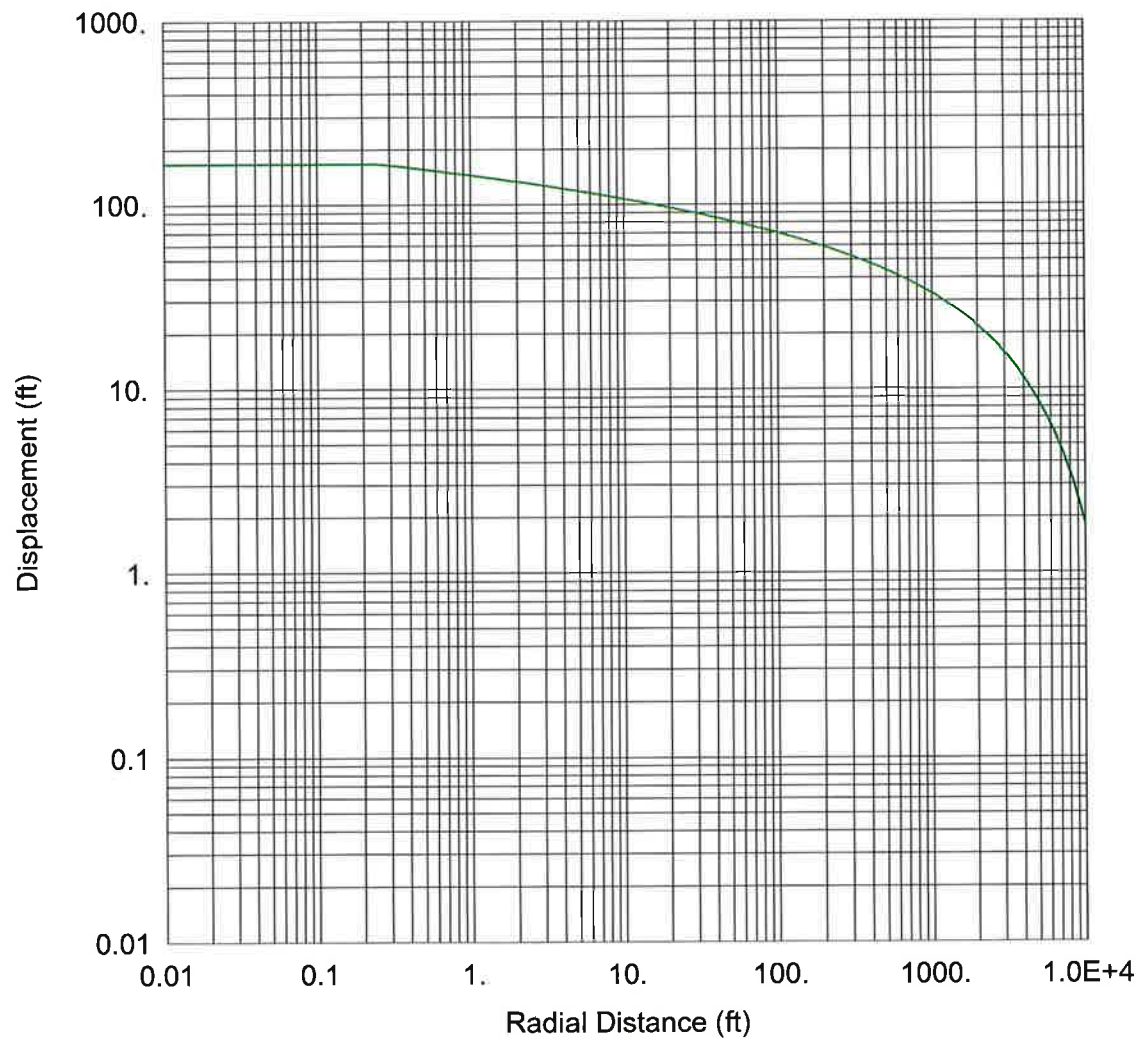
SOLUTION

Aquifer Model: Confined

T = 70 ft²/day
Kz/Kr = 0.1

Solution Method: Theis

S = 0.001
b = 48 ft



WELL TEST ANALYSIS

WELL DATA

Pumping Wells

Well Name	X (ft)	Y (ft)
298341 Stuart	670296.9516	2368969.216

Observation Wells

Well Name	X (ft)	Y (ft)
▣ 298341 Stuart	670296.9516	2368969.216
+ 297925 Helfrich	670397.9918	2365799.78
+ 300419 Snell	670063.148	2368087.113

SOLUTION

Aquifer Model: Confined

Solution Method: Theis

T = 70 ft²/day
Kz/Kr = 0.1

S = 0.001
b = 48 ft



Chris Yamamoto
 Canyon County Clerk of the District Court
 Ex-Officio Auditor and Recorder



"Serving all of Canyon County in an efficient, accurate and friendly manner"

February 21, 2020

Pickles Butte Landfill Operating Record
 Pickles Butte Landfill
 Canyon County
 Caldwell, Idaho 83605

I hereby certify that Canyon County is in compliance with the requirements of the Environmental Protection Agency's rule 40 CFR Part 258 (*Financial Assurance Mechanisms for Local Government Owners and Operators of Municipal Solid Waste Landfill Facilities*). The following paragraphs outline the test requirements and Canyon County's compliance with the rule.

1. **Local Government Financial Test** - (f) (1) (i)

To qualify for self-assurance, the County must either have a current bond rating of Aaa, Aa, A or Baa as issued by Moody's or AAA, AA, A or BBB as issued by Standard and Poor's or meet the financial ratio alternative. Canyon County meets the financial ratio requirements.

2. **Public Notice Component** - (f) (2)

To comply with the public notice component, the County must place reference to the closure and post-closure care costs assured through the financial test into its next Comprehensive Annual Financial Report (CAFR). Reference is made in the notes to the financial Statement and in the balance sheet of the solid waste landfill enterprise fund. (See attachment A) Canyon County is in compliance with GASB statement 18 and therefore complies with the public notice component. Reference will be placed in the operating record and has also been included in the 2019 CAFR.

3. **GAAP and Audit Requirements** - (f) (1) (ii)

The County must prepare its financial statements in conformity with Generally Accepted Accounting Principles for governments and have its financial statements audited by an independent certified public accountant. Canyon County prepared its 2019 Comprehensive Annual Financial Report (CAFR) in accordance with GAAP and the financial statements have been audited by Eide Bailly LLP.

1. **Other Eligibility Requirements** - (f) (1) (iii)

A local government is not eligible to assure its obligations under 258.74 (f) if it:

- a. is currently in default on any outstanding general obligation bonds, or

- b. has any outstanding general obligation bonds rated lower than Baa as issued by Moody's or BBB as issued by Standard and Poor's, or
- c. operated at a deficit equal to five percent or more of total annual revenue in each of the past two fiscal years, or
- d. received an adverse opinion, disclaimer of opinion, or other modified opinion from the independent certified public accountant (or appropriate State agency) auditing its financial statements required under paragraph (ii).

2. **Calculation of Costs to be Assured.** (f) (4)

If the County does not assure other obligations through a financial test, it may assure closure, post-closure and corrective action costs that equal up to 43 percent of the County's total annual revenue. As demonstrated on attachment B, our total closure and post-closure care costs do not exceed 43 percent of our total annual revenues. Therefore, we are able to provide assurance on the closure, post-closure and corrective action costs without obtaining a local government guarantee or alternate assurance.

Sincerely,



Chris Yamamoto
Canyon County Clerk, Auditor and Recorder

CC:

David Loper, Solid Waste Director
Board of County Commissioners
Kevin Ryan, DEQ Boise Regional Office

Attachment A

**STATEMENT OF NET POSITION
PROPRIETARY FUNDS
September 30, 2019**

**Business-type Activities -
Enterprise Fund
Solid Waste Management**

ASSETS

Current assets:

Cash and investments	\$ 18,736,551
Accounts receivable	374,025
Interest receivable	37,906
Prepays	-
Total current assets	<u>19,148,482</u>

Noncurrent assets:

Capital assets:

Capital assets (net of accumulated depreciation)	<u>9,513,600</u>
Total assets	<u>28,662,082</u>

DEFERRED OUTFLOWS OF RESOURCES

Deferred outflow - pensions	<u>97,892</u>
-----------------------------	---------------

LIABILITIES

Current liabilities:

Accounts payable	176,472
Incurred claims payable	-
Compensated absences payable	<u>48,540</u>
Total current liabilities	<u>225,012</u>

Noncurrent liabilities:

Compensated absences payable	16,180
Landfill closure/post-closure costs	9,315,374
Net pension liability	<u>339,245</u>
Total noncurrent liabilities	<u>9,670,799</u>

Total liabilities	<u>9,895,811</u>
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DEFERRED INFLOWS OF RESOURCES

Deferred inflow - pensions	<u>150,302</u>
----------------------------	----------------

NET POSITION

Investment in capital assets	9,513,600
Unrestricted	<u>9,200,261</u>
Total net position	<u>\$ 18,713,861</u>

The notes to the financial statements are an integral part of this statement.