

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 0 7 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 us 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).

Application for Permit 63-34858 Page 2.

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).

<u>Criteria #5.</u> 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.

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

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.

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

Sincerely,

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 us 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 (Swirydczuk 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 Glenns 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 Glenns 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

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 corelate 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

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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 withdrawals 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 withdrawals 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 withdrawals 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 withdrawals 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 withdrawals 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 withdrawals 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.

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

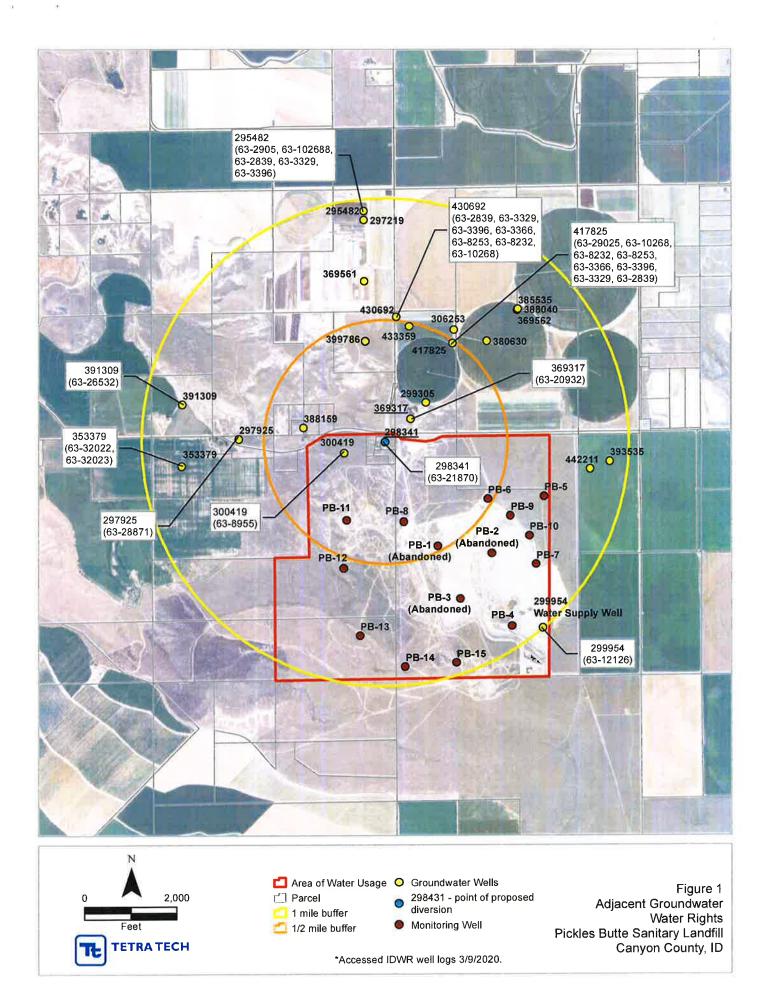
Attachment C: Agtesolv V4 Pro Results

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REFERENCES

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- 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



TABLES

TABLE I INVENTORY OF WELLS WITHIN L-MILE RADIUS OF PERMIT WELL 298341

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Irrigation or Commerical Supply Well Domestic Supply Well

Domestic Supply Well Information available on IDWR webpa

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

(#) X:

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

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IDAHO DEPARTMENT OF WATER RESOURCES

WELL DRILLER'S REPORT Use Typewriter or Ballpoint Pen 061342

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Insp	ecte	d b	у			-
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DRILLING	PERMIT	NO. 63	3-95-W	0962-100	11. WE	LL TES	TS:		; Long:			
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☐ Thermal	☐ Inject		Other	mgason								
	•			7								
TYPE OF \	NORK ch	eck all tha	it apply	(Replacement etc.)					ANGEL CHICAGO			
☐ New Well		Ab	andonment	☐ Other							-395	-
DRILL ME				17 au		_	250	EIV	E D			\vdash
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				IAN PRESSURE:	Election (CA)	(B. 7	da	10 i D-1	17-	21	
3 <u>30)</u> ft. belo					Firm Of	IICIB	ave co	Tens	Jeru Date	10	X C	
•			ft. Des	scribe access port or	and	524	7) - (-1700	uco C	,,,	,	a
ontrol devices	3:				Supervi	sor or Ope	erator LAUE	HUI	MOUN_ Date	e d A	6	14
							/Sign one	e if Firm Offici	al & Operator)			

AUG 0 8 1996 Use Typewriter or Ballpoin	nt Pen Rcc. ア	10- 204	N RU3W Sec. 2 segbert 2010		
1. DRILLING WESTERN PRODUCTS 3 - 96-W - 0147 - 000 Other IDWR No.	11. WELL TEST	「S: Lat:	: : Long:	: : Artesian	
2 OWNED.	Yield gal./min.	Drawdown	Pumping Level	Time	
2. OWNER: Name Esther E. Helfrich Address 5200 Midway Rd. Box 36	20	60'	265'	The	
Address 5200 Mid way Rd. Box 30	30	95'	300'	1/2-11	
City Caldwell State ID Zip 83605					
Only Caracter State 15 219 BEAD 04	Water Temp.	68°	Bottom be	ole temp. 4	200
3. LOCATION OF WELL by legal description:	Water Quality test of	7	DD on test	t recul	+5
, -	water Quality test of				
Sketch map location <u>must</u> agree with written location.	12. LITHOLOGI	C LOG: (Describe	epth first Water Enco repairs or abando		Vater
	Bore Dia.\ From To	Remarks: Lithology.	Water Quality & Temp	erature Y	N
Twp. 3 North X or South □ Rge. 3 East □ or West X	1601	TOP SOIL			
W Rge. 3 East □ or West X Sec. 20 1/4 N 1/4 K N E1/4		SaNDY WHI	TE ALAU-		1
10 across A do across 160 across					111
	16 17 20	CREY SANT SANDYWH	JSTONE		
	11. 00 22	BION SAND	HELLAS		
Address of Well Site 16574 + 16666		WHITE CLAS	,		
Deer Flat Rd. City Caldwell (Give at least name of road + Distance to Road or Landmark)		BLOW SAN			+++
		MHLLE CLAN'		DEAVA	+H
LtBlkSub. Name					-111
		NHITE CLAY		LUCIA	
4. USE:		BROWN SAN			+H
💢 Domestic 🗌 Municipal 🔲 Monitor 🖂 Irrigation		NHITE CLAY			
☐ Thermal ☐ Injection ☐ Other	X781/3 111	BILLECLAY			
5. TYPE OF WORK check all that apply (Replacement etc.)		BLUECLAY			+H
💢 New Well 🗆 Modify 🗆 Abandonment 🗆 Other		BLUE CLAY			+H+
6. DRILL METHOD		BLUECLAY,	NT IL SAND ST	FEEAIS	+H
☐ Air Rotary 🕱 Cable 🔲 Mud Rotary 🗆 Other		BLUE CLAY			411
		CREY SAN			444
7. SEALING PROCEDURES		BLUE CLAY		I	
SEAL/FILTER PACK AMOUNT METHOD Material From To Sacks or		FRACTURE D	CAVING BLUE	CLAS	+
Pounds		BLUE CLAY			+
Bentonite 0 199 2500 Dawnannular		SAND STON	E		+H
	8 382 388	BLUE CLAY			
		PACTURED !	SLUE GLAY		\perp
Was drive shoe used? XY □ N Shoe Depth(s)	8 390 495	BLUE CLAY	- J. Mar.		+
Was drive shoe seal tested? AY IN How? Nater Pressure		CREY SAND			+
8. CASING/LINER:		BLUE CLAS		964 - 44	10
Diameter From To Gauge Material Casing Liner Welded Threaded	8 507 507		O&	100	+
8" + 2' 199' 254 Steel & - X -	8 507 580	BULLECLA	y CC	70-	
6" 158' 708' 250 Steel " X X "	8 580581	GREY SANG	STONE.	70999	
	8 581589	BLUE CLAY	<u> </u>		OH.
NA Length of Headpipe Length of Tailpipe	8 589590	CREY SAND	1946		11.1
NA 9. PERFORATIONS/SCREENS RECEIVED	8 590 607	BLUE CLA			1
L Perforations Method	8 60 611	BUECIAY	U/ CAY EDTHUS	hunks	1
□ Screens Screen Type AUG 2 2 1996	Completed Depth	900'	ABRASNE SE	(Mesania	able)
	Duto. Otalica	f-1-96	Completed_ 7-	- 20 - 9	Drow
From To Slot Size Number Diameter Material Community of Water Resources	s				
	13. DRILLER'S	CERTIFICATIO			
		minimum well constr	uction standards wer	re complied	with at
	the time the rig was	removed.			
	Firm Name A -	Line.		Firm No. 5	566
10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:			۱ .		· ~~.
205 ft. below ground Artesian pressure NA lb.	Firm Official R	A A	Date Date	7.29	.9/
Depth flow encountered 852 ft. Describe access port or	and		Date Date	161	1.6
control devices: Unboth Well Cap	Supervisor or Opera	ator	Data		
	Subervisor or Ober	/Sign appentit Firm	Date_		

RECEIVEDAHO DEPARTMENT OF WATER RESOURCES

0914600 1-2

Location Corrected by IDWR To:

IDAHO DEPARTMENT OF WATER RESOURCES Use Typewriter or OF WELL DRILLER'S REPORT 057955

1. DRILLING PERMIT NO. 63 - 55 - 60 - 0317 - 055 Other IDWR No.	11. WELL TES	STS: □ Baller □ A	ir □ Flowing A	Artesian	
	Yield gal./min.	Drawdown	Pumping Level	Time	
Name Jim Haffman	20		······································	12	
2. OWNER: Jim Hoffman Address 31 Ora Blud.		i i			
City NAMPA 7 State I Zip 83651	**************************************				
	Water Temp	Bott	om hole temn		
3. LOCATION OF WELL by legal description:		t or comments:	THE CONTRACTOR OF THE CONTRACT		
Sketch map location must agree with written location.	Water Granty tee	or commenta.	****	10.000000000000000000000000000000000000	
oketon map tooditon <u>mast.</u> agree with whiten tooditon.	12. LITHOLO	GIC LOG: (Describe	e renairs or abando	nment) w	
	Bore	T			ater
Twp3 North Ø or South □	Dia. From To	Remarks: Lithology,	Water Quality & Temp	erature Y	N
Rge. 3 East □ or West MC	603	Top Son	ے ۔		
Sec. 16 , 1/4 SW 1/4 SE 1/4	3 15	GLAVE	P		
Sec. 16 , 1/4 5 1/4 5 5 1/4 Gov't Lot County DA 40 00700 160 acres	15 115	S. Clay			
l x	115 170		la / SANO	Q	
Address of Well Site	120 12				
(Give at least name of road + Distance to Road or Landmark)	173 24		y 154 ral Str	eaks	
	ays ay				
LtBlkSub. Name	247 26				
1	260 27.	7 ive Blu	e smil.		
4. PROPOSED USE:					
☐ Thermal ☐ Injection ☐ Other					
5. TYPE OF WORK		RE	CEIVED		
New Well Modify or Repair Replacement Abandonment			Y_		
6. DRILL METHOD		L DE	C 1 1996		
☐ Mud Rotary 🕱 Air Rotary 💢 Cable 🗆 Other					1
		Departmen	il of Water Resources		1
7. SEALING PROCEDURES					\vdash
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			1 31/8 - 4/11/0		\vdash
					\vdash
Was drive shoe used? XY N Shoe Depth(s)					\vdash
Was drive shoe seal tested? Y□ N□ How?		RECE	IVED		\vdash
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5 259 266 250 Street 0 0 0 0			SOURCES		\vdash
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9. PERFORATIONS/SCREENS	l l mare				+
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From To Slot Size Number Diameter Material Casing Liner			America Char		
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		ill minimum well constru	uction standards wer	e complied wi	ith at
	the time the rig wa		7.		
	Firm Name	ennis Ph.	005	Firm No. 3	22
10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:		1/	10		
ft. below ground Artesian pressurelb.	Firm Official)e_ 44	Date	5-28	-95
Depth flow encounteredft. Describe access port or	and		1		
control devices: Well Seas	Supervisor or Ope	erator	Date_		
		secretaria de la composición della composición d			

Use Typewriter

Form 238-7			IDAH	10 DEP	ARTMENT (OF W	ATE	RF	RESOURCES	;	Ose Typew Or	mei	
6/93	l)			WE	LL DRILL	FRIS	R	EP(ìRT		Ball Point I	Pen	
('/				VV I	LL DUILL	LIT			7111				
											555	UJ	
1. DRILLING PERMIT	r NO	1.6:	3 - 94	-W-02	68-001	10.	WEL	L TE	STS:				
Other IDWR No							□ F	ump	🗀 Bailer	X Air	Flowing Artesian	1	
2. OWNER:							rield ga	./min.	Drawdown			Time	
Name Daulo Address 16141	5,	vel	<u> </u>			-	25	gal				Le.	2
Address 16/4/	p	ecz	FLA	T ROM	20								
City CALDWELL			St	ate <u>/ O</u> Zip	83605								
						Temp	eratu	re of v	vater Was a v	vater a	analysis done? Yes 🗆 No) (X (
3. LOCATION OF WE	ELL	oy le	gal des	cription:		•							_
Sketch map location must	agree	with v	written loc	ation.									
N N						Botto	m Hol	e Ten	nperature		 		_
						11.3	STA	TIÇ 1	WATER LEVEL	:			
T FR Sec.	2	_	North	x or	South []						sian flow found		
ν ε _{R.}	3		East	□ or	West V	Artes					access port		=0
Sec.	20	2		1/4 NE	1/4 VE 1/4	Desc							
Gov't	t Lot_		County_	CANYS	160 acree						10112		
S						12	ІТН	OL C	GIC I OG: /Deed	riha r	repairs or abandonment)	•	
Address of Well Site/	61	41	De	ex Fr	AT Rd.			OLU	CIO ECO. (Desc	1 100	epairs or abandonnient,		
Address of Well Site/	<i>v</i> ,	Ó.	Idino	11	100000	Bore Dia.	From	То	Remarks: Litholog	ıy, Wa	ter Quality & Temperature	GPM	SWL
(Give at least	Directle	on + Dis	stance to Roa	ad or Landmark)		6"	200	120	Blue Clay	/			1
Lot NoBlock No.		S	uhd Nam	ia .			870	890	Fractured	3	lue Clay	X	
4. PROPOSED USE:	122		ubu. Main	·	and the same of th		190	900	Blue Clay	/		1	
M Domestic ☐ Mur	nicinal	. г	☐ Monitor	∏Irriga	ation		,-		7		UI-II-II-III		
☐ Thermal ☐ Inje	-		Other_	•							HINA IIII - 181114 - 1		
5. TYPE OF WORK		_	—										
☐ New Well X Modif	v or R	lepair	□ Repla	cement	☐ Abandonmen						AND THE RESERVE THE PARTY OF TH		4
6. DRILL METHOD			-										
☐ Mud Rotary 🕅 Air	Rotar	У	☐ Cable	☐ Othe	ır				-1				
											9,49,4		
7. SEALING PROCE		<u>ES</u> _				. L				RE	CEIVED		
SEAL/FILTER PACK			AMOUNT Sacks or	М	ETHOD								_
Material	From	-	Pounds				2			Ш	1 8 1994	1	
BENTONITE	0	10	100	Deckt	Drive								ļ
(George		-			110000					WATE	R RESOURCES TERM REGION	-	
		-	2 7/11/2/2019			3-12-1	_				- THE LECTOR	4	-
			l			l		\vdash				+	1
Was drive shoe seal tested	? Y🗀	ΝQ	How?		*******	-						+	<u> </u>
O CACINO// INED.						-		\vdash		Б	ECEIVED	+	├
8. CASING/LINER:		Ta		O. I. Branda	AAA AA AA BARAA	-					LULIVED	+	+
6" + 2 463	Guage	Castin	ng Liner	Steel Plastic		1	177	10.2 19	* av .		CT 1 7 1994	+	1-
7 7 7 7 93	200	 ^	+-			86.75	1 7	1	1015)	Do-	in I	+-	t^{-}
	•						- 201	7.5	* *.11	- NIE	atment of Water Heavester	+	
				0 0		MA	n	2 40			= W		
Final location of shoes	46	- 3			_			8 19	95		W-02		
Too Packer or Headnine			Pot	tom Tailaine		17/200						2000	1

□ Screens Type_ Material Slot Size Casting From To Number Diameter Liner \Box \Box

Method_

9. PERFORATIONS/SCREENS - NON-C.

Perforations

13. DRILLER'S CERTIFICATION

Date: Started 5/26/94

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

Completed_

Supervisor or Operato

(Sign once if Firm Official & Operator)



IDAHO DEPARTMENT OF WATER RESOURCES ECEIVED Typewriter or WELL DRILLER'S REPORT JUN 1.7 1956 Point Pen

Department of Water Pierel/C06

(Sign once if Firm Official & Operator)

				. 63	-94	<u>-W-</u>	0268	-000	10. WEL		•			619		
Other IL	W HAV	0			_	10/4W				Pump						_
2. OW	1.		500	2.5.					Yield ga	ii./min.	Dre	wdown	Pumping Depth		Time	
Address	. 3	15)centh		D	0	- 1944									
City	An	4.4	wyn.		9	tate In	Zip_ <i>8 -5</i>	1686				#1				
Oity		7 13				Idio_ID			Temperatu	re of v	water	Was a water	r analysis done? Y	/es⊟ No	Def.	
3. LO	CATIO	ON OF \	NELL !	by le	gal de	scripti	ion:								7	
Sketch	map lo	cation <u>mu</u>	st agree	with w	ritten lo	cation.							10.			
	N								Bottom Ho	le Ter	nperature		The state of the s			
		∇							11 GTA	TIC I	WATER L	EVEI .				
	-		1		Nor	n Def	or Soi	uth 🗆	12 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				tesian flow foun	d		
	-	EΒ	-3					st XI					e access port_			
		Se	ac 2	0			NE 1/4	150 acres			rolling Devi		o access pon_			
		G	ov't Lot_		County	* C	40 mores 100	160 acres	DOOMBO	40 111	· oming com				-	
	S		57 · _ 5.		oounty.				10 LITH	101.0	AGIC LOG	t /Basselles				
	-4144	u //-	1111	١	- Ľ		COAD.		12. L///	IOLU	JGIC LOG	i. (Describe	repairs or aban	aonment)		
Address	or we	II Site/@	/4/ 1		Idua		LOHIS,		Bore Dia. From	То	Remarks:	Lithology, W	ater Quality & Tem	perature	GPM	SWL
		(Give at le	east Direction				dmark)			10	Sandy	Top	5011			
Lot No		_Block N	0.	Su	bd. Nar	ne			10	150	Clay	SAND	soil y Clay	****		
		SED US			ou. I tui				150	151	SAND	stone				
		tic \square N) Г	Monito	r 🗆	Irrigation		151	160	Clay					
	Therma		njection						160	161	SANO	STONE				
5. TYP	PE OF	WORK	•				-		16/	310	Clay +	SANA	y Clay			
		*** • * * * * * * * * * * * * * * * * *	•	epair	☐ Repl	acement	⊟ Āb	andonment	310	3/1	SAJOS	tone				
		ETHOD						41 T T P. 1997s			Clay					
	Mud Ro	otary 🖎 /	Air Rotary	y [Cable		Other		320	342	Blue	Clay				
	(ę								342	343	SANO	stone				_
7. SE				ES			Airena		JV3	765	Blue	Clay			1-4	-
	SEALING PROCEDURES SEAL/FILTER PACK AMOUNT METHOD Material From To Sacks or Pounds								1/0.5	770	Dive	Clay	hack		1-1	-
0			-	-	Pounds	-			1990	1/00	5045, 1	Kachter	el Clay		-	
DED	יועס	re_	10	30	100#	De	ce x De	100	491	1/13	CIL	Gray	red Clay		1 1	
_						-			497	501	Clay	TRECPU	rea cray			
					A. 5000	-			501	SOL	Saff	Leate	red Clay			
Moo dri	vo obo	e seal tes	oda Vill	NO	How?				506	Spl	Soft	Franti	red Class			
avas un	AC SUD	e seal (cs	leu: Tu	140	HUW!				508	700	Clas	6/40	red Clay	V. litte	X	
B. CAS	SING	LINER:							BA STUCK	-	102 N 10 M 20			1		
	r Fro			Castin	Liner	Steel	Plastic Weld	led Threaded	F/A H.		200					
6.	+3	463	,25	×		×			V 1		Seattle and	REC	EIVED_			
										1.	A		JEI 1 1 2 2 2	7149		
									FE	BV	8 1995	MAY	0 4 1994			
												· ini			1	-
Final lo	cation	of shoes_	46	. 3						-		WATE	R RESOURCES ERN REGION		1	
Top Pac	ker or	Headpipe			В	ottom Ta	ilpipe		\vdash	.1		AAEOI	EIN IEGION		لب	-
9. PEF	RFOR	ATION	S/SCRI	EENS	5 - N	ore			Date: Ste	arted_	4/13/	194	Completed	4/20/	74	
□ Perforations Method									12 DO	LEC	I'S CEBT	EICATIO	NI .	/		
C	Scre	ens	Ту	pe		_Materia	al				R'S CERTI		N uction standards v	vere com	شد اموا	ith ot
				_		fole/Plas	1				vas removec		John Standards V	rote comp	WOO MI	ar ar
From	То	Slot Size	Number	Diar	neter	ele/Pipe Size	Casting	Liner		Λ.	3	D,	۸.		11	يسر
			-15222						Firm Name	·H	HINGO N	lump +	DRILLING	Firm No	4.5	7
_				+			1		22,00	0	X-un	Tide		4/	. 10	./
-	_			+					Firm Offici	9	Jul	ngras	noson of	te/2	0/9	Z
		100000		_			J	_	and		-7		AMMENTO LO	/	12	

###CODV####

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,

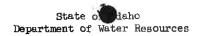
COFT		-		Salarian and the salarian				
1. WELL OWNER	7.	WAT	ER LE	VEL				
Name PICKLE BUTTE FARMS		Canai		1001 300 to 1010				
		Flow	ina?	level 300 feet below lan ☐ Yes XXXNo G.P.M. flow	A/			
Address ROUTE 4 BOX 344 NAMPA, TOUR		Artes	ian clo	sed-in pressure p.s.i.	- 2	-		
Owner's Permit No. 63-88-Z-046		Conti	rolled b	py: ☐ Valve ☐ Cap ☐	Plug			
			Des	e º ºF. Qualityscribe artesian or temperature zones	below.			
2. NATURE OF WORK	8.	WEL	L TEST	Γ DĄTA	74 O 4 F			
X New well Deepened X Replacement	l l	X) Pu	ımp	□ Baiter □ Air □	71245 Other			
☐ Well diameter increase ☐ Abandoned (describe abandonment procedures such as			·				_	
materials, plug depths, etc. in lithologic log)	-	300	je G,P,N	1. Pumping Level	Hours Pu	mped	-	
3. PROPOSED USE								
☐ Domestic 🕱 Irrigation 🗖 Test ☐ Municipal	-			10.00				
☐ Industrial ☐ Stock ☐ Waste Disposal or Injection				IC LOG				
☐ Other (specify type)		From	pth To	Material		Wa	No	
4. METHOD DRILLED	24	0		Clay w/ Sand Layers		1 63	x	
4. METHOD DRILLED	18.5		30	Sand w/ Clay Layers			x	
□ Reverse rotary	***	30 60	84	Sand & Gravel Clay w/ sand seams			X	
☐ Cable ☐ Dug ☐ Other		84	115	Clay w/ Sand Layers		-	X	
5. WELL CONSTRUCTION		115	122	Sand			x	
		122 200	200	Clay w/ sand seams Clay			X	
Casing schedule: ☑ Steel ☐ Concrete ☐ Other Thickness Diameter From To	n	240	270	- Clay w/ sand seams	and the		X	
		270 287	287	Clay			x	
	_	304	304 360	Sand Clav		=	X	
	,	360	380	Sand & Clay layers			x	
Was casing drive shoe used?		380	384	Clay			x	
Was a packer or seal used? ☐ Yes 🕱 No		384 392	392 430	Sand W/ clay seams Clay		×	x	
Perforated? X Yes □ No How perforated? X Factory □ Knife X Torch □ Gun	"	430	463	sandstone		K		
Size of perforation 1/8 Inches by 3 Inches		463 480	480	Clay			x	
Number From To		40U	618	Clay w/ sand seams		-		
3200 perforations 230 feet 439 feet 1800 perforations 430 feet 610 feet								
perforations feet feet		-					-	
Well screen installed? ☐ Yes 💢 No				DECENTRA				
Manufacturer's name Type Model No.				150000				
Diameter Sibt size Set from feet to feet	-			OCT 23 1990	<i>}</i>	-	\dashv	
Diameter Slot size Set from feet to feet Gravel packed? □ Y Yes □ No □ □ Size of gravel 3/8MINH IS								
Placed from 430 feet to 610 feet	7	1331	18.00	THE WOLL RESERVED	\$ 13 \VE 18	4.	_	
Surface seal depth20 / Asterias used in seal:		-	V	A HER CHAIL DILL	W (1)	#	-	
Sealing procedure used: Surry pit Temp. surface caused						77		
Overbore to seal depth	MA	115	1991	MAY.	1 3 1991	34,7		
Method of joining casing: ☐ Threaded 🂢 Welded 🗇 Solvent				Dapartment of	Water Resour			
Weld ☐ Cemented between strata Det	artmen	t of Wa	iter Res	Wastern D	egional Office			
Describe access port	10.			110mmillion -	0.444.00		- 1	
and the second s		Woi	rk start	ed 4/29/88 finished1	0/11/90			
6. LOCATION OF WELL	11.	DRIL	LERS	CERTIFICATION &				
Sketch map location must agree with written location)			that all minimum well constru	ction standard	ls we	re	
N Subdivin N DEO	j e	-		h at the time the rig was remove			-1	
Subdivision NaMEC 04 1991	7 1	Firm N	BILL	DOTY DRILLING CO.,	INC. 42 m No.			
- w - 16-1-16	1		·	er o see e	8 8 6		7,	
Lot No. Block No.					te 10-12-90)	- [
DIOCK ING.	CALDWELL ID83605 Signed by (Firm Official)							
S County CANYON	and							
N'SC ET		E: V	, , (I	Operator) Bol One	d			
NW 1/4 SW 1/4 Sec. 16 , T. 2 S R. 3 W	- R							

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.

within 30 days after complete	1011 01	0001100		T the main	-			
1. WELL OWNER	7. W	ATER	LEVEL					
- , , , - , ,				0		- 1		
Name John R. Johnson	\$	tatic wa	ter level	290 feet below land surface		- 1		
D1. 0 77 011 V	F	lowing?	□ Y€	es 🎜 No G.P.M. flow		=		
Address Rt to Box 75 Caldwell	'	emperat	ure	° F. Quality	_	-		
Owner's Permit No.				pressurep.s.i.				
Owner's Permit No. N. Pe		ontrolle	a by	U Valve U Cap U Plug		-		
2. NATURE OF WORK] a. w	ELL TE	ST DA	ΤΑ				
2. NATURE OF HOME	"							
New well ☐ Deepened ☐ Replacement		Pump		☐ Bailer ☐ Other				
	D	ischarge (3.P.M.	Draw Down Hot	urs Pumped			
☐ Abandoned (describe method of abandoning)		30			-	-		
44-44								
a approach use						_		
3. PROPOSED USE				316	76			
Ø Domestic □ Irrigation □ Test	ا ۾ ا	ITHOL	ÓGIC L	OG				
ga Dollitostic Commission Commission	Hole	De		vi cilei comun	Wa	tor		
☐ Municipal ☐ Industrial ☐ Stock	Diam.	From		Meterial	Yes	_		
A	6"	-	10	Hardpan & gravel		7		
4. METHOD DRILLED	-	10	35	Sandy Clay				
		35	45	Clay				
pd Cable ☐ Rotory ☐ Dug ☐ Other	LICAGO	45		Sundy Clay		П		
Million Company of the Company of th			65	Gravel		\prod		
5. WELL CONSTRUCTION		65	105	Sandy Clay				
Diameter of hole inches Total depth _5.75_feet		105	112	Same of the same		1		
Diameter of hole inches Total depth _5/_5_ feet		112	165	YEllow Clay		4		
Casing schedule: Steel Concrete Thickness Diemeter From To		165	170	Gravel		-		
Thickness Dlameter From To	- 22		185		_	+		
inches inches feet feet feet			217	Same		+		
inches inches feet feet	-		31-2	Yellow Clay		+		
inches feetfeet	_		280		-7	+		
inches inches feet feet	_	200	742	Yellow Clay & Gr	ave	-		
		295	310	DELION Clary		+		
Wasa packer or seal used? ☐ Yes 💆 No		810	317.	Yellow Clay & Gro Brown Sandy Clay Bed Sandy Clay	2	1		
Perforated?		370	200	Red Sandy Clay Wellow Sandy Clay		1		
How perforated? ☐ Factory ☐ Knife ☐ Torch		380	250	Vallan Sandy Clar		1		
Size of perforation inches by inches		IR ES	220	5	3			
Number From To		27.5	1287	Yrllow Llow		X		
perforations feet feet		385	405	Sand Yellow Clay Gray Sandy Cla	×			
perforations feet feet		405	440	Yellow Clay		×		
perforations feet feet	L	440	450	Gray Sandy Cla	~	1		
Well screen installed? ☐ Yes 🕱 No	_	160	-18-D	Blue Shale		+		
Manufacturer's name	_	480	नश्ट	Blue Sand	-+	1		
Type Model No.	-	482	200	Blue Shale		7		
Diameter Slot size Set from feet to feet	-			Mucky Sand		V		
Diameter Slot size Set from feet to feet	_	KDD	KRO	Blue Shale mixedu	Lucke	1		
		530	570	Sticky Blue Shall	E	¥		
Gravel packed? Yes Mo No Size of gravel		570	575	Sand	_ X			
Placed from feet to feet								
Contracted Block The Table To Late U.S.				The second of th				
Surface seal? 몇 Yes						_		
moterial used in sear to content grout the rodding clay				· · · · · · · · · · · · · · · · · · ·				
6. LOCATION OF WELL	-				1_			
Sketch map location must agree with written location.	10.			10/04/70 finished 12/1	10/2-			
[V	Vork sta	rted	tinished 15/16	18/10	<u>'</u>		
	-							
	11.1	DRILLE	R'S CE	RTIFICATION	7) 4	500		
V W → FE				lled under my supervision and this re	port is			
<u> </u>				of my knowledge.				
1) X				-				
S	5	5	En	alruma N	7			
6	Č	riller's o	Firm's	Value	Number	70		
County Carryon	- 1	300	Bu	altman Goise				
	Address 10 0 Up 170							
5W 1 SW 1 Sec. 16, T. 2 NM, R. 3 W	My Rey & Englimon (e/13/70							
	1 8	ignēti bý	0	7 Da	te			
						_		





WELL DRILLER'S REPORT

State law requires that this report be filed with the Director, Department of Water Resources within the Director of the well

days after the completion or	apand	onment	of the v	er,	1		
1. HELL OWNER	7. V	ATER	LEVEL	,		*****	1
Harne LA MAR PENROD			star laval	196 feet below land sur	·faa.	Í	
				es No G.P.M. flow			
Address Rt. Y CAldwell, Idaho	Т	empera	ture	° É. Quality			=
Owner's Permit No				n pressurep.s.i.] Plug		
2. NATURE OF WORK	8, V	ELL T	EST DA	TA		::::::::::::::::::::::::::::::::::::::	
New well Deepened Replacement	ľ	Pump		★ Bailer □ Other			
Sylven was a proposed of happened	-	ischarge		Draw Down	Hours Pu	mper	_
Experisoned (describe method of abandoning)		15					
n e	-						
A OFFICE AND LINE						_	
3. PROPOSED USE						33-250	
(\$1 Domestic Irrigation Test Other (specify type)	9. 1	~	OGIC L	.og	411	-	
[] Musicipal Industrial Stock Waste Disposal or Injection	Hole Diam.	_	pth To	Material		Laws were	i Ni
	8	0	3	Seed			X
4. METHOD DRILLED	8	3	15	SAND SOME	Grave/	-	X
X Cable □ Rotory □ Dug □ Other	8	15	48	SANDAND CIA	IN IBYER	Ş	X
	20	45	50	SAND			文
5. WELL CONSTRUCTION	10	20	110	Clay Any SANO	JAYPIS.		X
Diameter of hole 4 inches Total depth #05 feet	-10		300	Blue Shale			İΧ
ւ`esting schedule: 💢 Steel 🔲 Concrete		300	305	SAND AND CHA	H-7	X	X
Diameter From To	10	BAS	400	CAY	·	_	X
inches inches feet feet	6		405	Sand		X	1
inches inches feet feet	6	1 500	420	Day			1
inches feet feet							
inchesfeetfeet							-
Was a packer or seal used? Was a packer or seal used? Yes You							
Perforated?						-	-
How perforeted?		_					1
Size of perforation inches by inches Number From To							
perforations feet feet	-						-
perforations feet feet feet			-			-	-
perforations feet feet							
Well sureen installed? Yes XNo							
Model No Model No							
(DigheserSlot size Set from feet to feet							-
Diagreter Slot size Set from feet to feet							
Sizure: nached?							-
filemed from feet to feet		: 					
Material used in seal Cement grout			0.00				
Puddling clay Well cuttings	-						
Sealing procedure used Starry pit Temporary surface coming						-	-
Overbore to seel death	_		L				
was	10.			(AAS) 5			
6. LOCATION OF WELL	W	ork sta	rted_9	-/8-25finished_	10-2-7	5	=
Sketch map location must agree with written location.					***************************************		_
63 1	H. D	RILLER	S CERT	FICATION	8	15	
Subdivision Name	F	irm Mg	Sill	Dety Shell Dut	VietFirm No	1/2	2
W			D.	te 7 Galdwill	ے د	7-7	12
Lot No Block No		vooress's	der.	D. 11 /	Date -	* **	-
	5	ligned by	(Firm	Official) Sill N	dy		
Coursey Carryon			OI.	M /	ア・ソ		
Posts 15			(Ope	rator) (306 00	1/		
8 7 1 1 5 1 Sec. 17 T. 2 NB, R. 3 3/W				C			_

Well Log Form 1 3M-3/63



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

SUBMIT WITHIN 30 DAYS AFTER COMPLETION OF WELL: SEE IDAHO STATUTES 42-238 Well No 174 County Canyon Locate well in section Owner DR. JOHN PAUL FINCK Address 701 N. Indiana Ave., Caldwell, Idaho Driller B. & M. EQUIPMENT CO. INC. Sec. Address P.O. Box 973, Caldwell, Idaho I Well location NE 1/4 SE 1/4 Sec. 17 T 2 NJS R 3 WW Size of drilled hole. 12-1/h" __Total depth of well__1001 Give depth to standing water from the ground 31! Water temp. Test delivery was g.p.m. or s.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____ 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. From Remarks—seals, grouting, etc. Length Casina Feet Feet 0 80 80 Gravel packed from h0' to 100' from ground level. Four sack raw cement seel installed at 40'. Bentonite slurry, 6-5/84 80 100 gravel, and dirt from seal to ground level. Number and size of perforations 11:10 1/8# x 21 located 80 feet to 100 feet from ground Date of commencement of well June 15, 1965 Date of completion of well June 18, 1965 udds. NESE 5,17 2 N 3 N

WELL LOG

From Feet	To Feet	Type of Malerial	Water-bearing Formation Ans. Yes or No	Casthy Perforated
0	냽	Set 1-Brown	20	no
12	5	Clay-hard.	no	no
5	15	Sand-hard, white and brown, strips of rock	no	no
15	314	Sand-medium, with boulders	no	ne
34	38	Gravel with boulders	no	no
38	1,2	Mr N P	no	no
112	147	Clay-yellow -	no	no
147	52	Sand-yellow	no	no
52	65	Clay-gellow with nerrow sand a trips	no	no
65	71	Sand-white, medium	no	no
71	79*	Clay-grey	no-	_no
79	83	Gravel-white, red and brown	yes	yes
83	91	Clay-grey	no	yes
91	95	Sand-coarse	yes	уез
95	10#	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.
Dated Oct. 25, 1965	Well Driller's Helper Glen Boxberger.

6/02 Form 238-7

IDAHO DEPARTMENT OF WATER RESOURCES WELL DRILLER'S REPORT

2. \	WELL T			Lat:	_: :	Long:			
		ump	☐ Bailer			lowing Ar			
	Yield gal.	The second second	Drawdow 74		Pumping 470	Level		1/2	4,
-+-	700	gpm.			710	5 —	U	10	W.
			-						_
Vate	er Temp.					Bottor	n hole ter	np.	
			comments:			_			
					Dent	h first Wa	ter Encou	ınter	
3.	LITHOL	OGIC I	OG: (Descri	be repai					ter
Bore	From	То	Remarks: L	_				Y	l N
Dia.		10				Try or renti	perature	 `	1
24	0		TOP					╁	
+	12	5	CLECH	y , ,				+-	V
+	3	12	SAND.	1000	1/6/			+	1
+	14	22	BLACK	SICH	NEDE			-	5
+			BRNSA				17 A 1 A	4	2
+	UI	51	SAND.	CRA	181			1	V
-†	51	SU	BURNT	CIAU		-			Ý
†	54	122	SAND,	3,en	IEL				Y
1	122	183	BRN CL	44.5	IM SA	ND LA	USES		Ý
1	183	222	FINE BY	en S	AND		J		X
T	222	232	BEN CL						λ
I	232	313	FINE SA	LON	SIN CLA	4 LA	YERS		4
1	373	405	BLUE C	LAY		,			X
1	405	433	FINE -	CDÁR	SE SF	and		X	
1	1/122	11111	Dine	LALL				-	X
1	441	450	BLUE S	SANL	s, Sm	CLA	y Loy	res:	× .
-1	450	476	BLUE	CLA	5			1	X
-1	976	500	EINE BU	الحري عد	MD CLI	94.4	ποю	Shak	ے
-1	520	644	BLUE S BLUE FINE BU FINE - CO	AP SE S	VAND,	SOMES	SHALE	X	K
+	644	673	HARD S	77/17	STUNE			70	~
1					A			1	×
•	634	600	Blue		2-5			1	1
_	1		REC	;ET	VED				
			- 11-						
			OC		2007				
				ED DES	OURCES				
			WAT	STERN	REGION			1	
_			- "					-	-
_		-					_	4-	-
	-							1	-
_		Dent	<u> </u>	655			/4	Measura	able
C	ompleted	vepin	11 1	100			-	_	
	ate: Sta		7-2		Co	mpleted	7.0	30-6	//
			ERTIFICATIO						
			ninimum well co	onstructio	on standard	s were co	mplied w	ith at th	ne
ıme	r trie rig t	was rem	`	<u> </u>		ŝ		_	_
Con	npany Na	ame 📑	KYVERS	301	IN	ب	Firm N	10. <u>3</u>	3
Date:	alaal Da	10.	/_/		1001/1	Do	le /0	- <i>7</i> -	0
Prin and	cipal Dri	lier C	- V		Z	A Da	10 / 0		_/
	er or Op	erator II	Leve	n	roe	W 163	le		
		1	0	_					

1. WELL TAG NO. D DRILLING PERMIT NO.		2060	849	
Water Right or Injection Wel	I No6	3 - 823	2	
2. OWNER: BER	NIE .	TEUNI	SSEN	
Address Gity CAL b	66 PEI WELL	Stat	e ID Zip 83	607
3. LOCATION OF WEL			الميي	
You must provide address of Twp	r Lot, Bik, Sub. Iorth 🛣		outh 🗀	
	ast 🗍		est 🗶	
			W 1/4	
		NYON	/// -	
Lat: 43 : 30 466 Address of Well Site	Pe and it	16:42:	SINE ACH	ence
		City	ALDWELL	
FROM DAIRY (Give at least name of road - Districe to		_	MENUELL	
	_ Sub. Name_ RC#_RA			
- 7706 FZ	KCH PER	HELVI		
4. USE:				
	unicipal		Irrigation	
☐ Thermal ☐ Inj	ection	Other		
5. TYPE OF WORK che	ck all that apply	/	(Replaceme	ent etc.)
☐ New Well ☐ Mod	lify 🗆 Aba	andonment	Other KEPL	ACE_
C DOWN METUOD.				
6. DRILL METHOD: ☐ Air Rotary ☐ Ca	able 🗆 🗎 M	Aud Botary	Mother Reus	PSE
C All Hotary Co.	able (31)	ida Hotary	A Out.	Cheshing.
7. SEALING PROCEDI	JRES			
Seal Material	From To	Weight / Volume	Seal Placement Mo	
3/4 BENTONITE	0 488	60,000	DRY Pour	e
Man drive share wood?	□Y XN	Chao Donth/		
Was drive shoe used? Was drive shoe seal tested	7-	Shoe Depth(: How?	5)	
Was drive slide sour rested	-	11011		
8. CASING/LINER:		Casis	a Liner Welded	Threaded
Diameter From To	-	casir	g Liner Welded	Threaded
16 +2 520	375 \$1	EEL X		
	1 -1 -			
Length of Headpipe		Length of Tailp	pe /5	
Packer DY XN	Type			
A DEDCORATIONS/S/	DETNO DAC	VED TVDE		
 PERFORATIONS/SO Perforation Method 	JREENS PAC	KERITPE		
Screen Type & Method of Ir	nstallation 36	HNSON W	REWRAP	
From To Slot		ameter Mater		Liner
520 640 .02	15	16 S.S		
10. FILTER PACK				
Filter Material	From To	Weight / Volume	Placement Meth	
#8-12 CSSI 9AN		12,000	Dry Pou	K
CLAY FILL	650 680			
11. STATIC WATER LEV	/EI OR ARTI	-SIAN PRESS	SUHE:	
398 ft. below ground	Artesian	pressure	lb.	
Depth flow encountered	Artesian	pressure be access port		
Depth flow encountered	Artesian ft. Descr	pressure be access port	lb.	

6/07

PAGE I OF 2

861400

IDAHO DEPARTMENT OF WATER RESOURCES WELL DRILLER'S REPORT

1. WELL TAG NO. D 0060024	12. ST	ATIC W	ATER L	EVEL and WELL TESTS:			
912/68-861400	Depth first water encountered (ft) 424 Static water level (ft) 424						
Drilling Permit No. 63-2839,63-3329,63-3366,63-3396 Water right or injection well # 63-2839,63-3329,63-3366,63-3396	Water temp. (°F) 76° Bottom hole temp. (°F) 83° @ 740'						
2. OWNER: Bernie Teunissen 63-8232,63-8253,63-29025	Descrit	ne access	port E	Baker well cap			
Beranna Dairy	Well te		po.,,	Test method:			
9166 Perch	-	lown (feel)		charge or Test duration Pump Bailer Air	Flo	wing esian	
City Caldwell State ID Zip 83607		72		Id (gpm) (minutes) Single State (minutes) Si			
3.WELL LOCATION:	Water	quality te	st or co	mments:		_	
Twp. 02 North X or South ANA SIM SIM	13. LITI	HOLOGI	C LOG	and/or repairs or abandonment:			
Twp. 02 North ⊠ or South □ Rge. 03 East □ or West ⊠ Sec. 16 NW 1/4 NW 1/4 SW 1/50 scres 1/4	Bore Dla.	From	То	Remarks, Illhology or description of repairs or	Wat		
Gov't Lot	(ln)	(ft)	(ft)	abandonment, water temp.	Υ	N	
N 43 • 30.560 (Dec. and Decimal minutes)	20	0		Top soil		X	
W116 9 42.766 (Dec and Decimal minutes)	20	6		Caliche Sand, gravel		$\hat{\mathbf{x}}$	
Long. W116 • 42.766 (Deg. and Decimal minutes) Address of Well Site 500' to the East off of Perch, 9168 Perch	20	10		Brown clay			
Address of Well Site Caldwell	20	19		Cemented sand, gravel		X	
Rd City Caldwell	20	25	37	Black cinders, small white ash streak		Х	
Lot Bik Sub. Name	20	37	104	Brown clay w/sand,gravel streaks		Х	
4. USE:	20	104	144	Fine-med sand some coarse gravel		, X	
□ Domestic □ Municipal □ Monitor ☒ Irrigation □ Thermal □ Injection ☒ Other □ Commercial STOCKWAGEY	20	144		Brown clay w/fine brn sand streaks		Х	
Dither NIMINETOIN, STOCKHARDE	20	271		Fine - medium brown sand		X	
5. TYPE OF WORK: ☐ New well ☑ Replacement well ☐ Modify existing well	20	307		Brown clay	_	X	
Abandonment Other	20	321		Fine - medium brown sand	_	X	
6. DRILL METHOD:	20	355 373		Brown clay Blue clay	-	x	
G. DRILL METHOD: ☐ Air Rotary ☐ Mud Rotary ☐ Cable ☒ Other Reverse	20	400	460	Fine - medium brown sand	×		
7 SEALING PROCEDURES:	20	460		Blue clay		х	
Seal material From (ft) To (ft) Quantity (lbs or ft²) Placement method/procedure	20	467		Fine blue sand	Х		
Bentonite chips 0 465 56,000 Dry pour	20	475	488	Blue clay		х	
	20	488	581	Fine-med blue sand w/clay streaks	Х		
8. CASING/LINER:	20	581		Blue clay w/ fine blue sand streak		X	
(nominal) From (II) To (II) Schedule Waterial Casing Ellion (III)	20	621		Fine blue sand	X	_	
12 +2 482 .375 Steel	20	627	632	Sandy blue clay		X	
12 582 622 .375 Steel	20	632		Fine blue sand w/cemented clay	Х	×	
12 627 632 .375 Steel	20	652		Blue clay w/ sandstone seams Fine - medium sand	х	<u></u>	
12 652 659 .375 Steel	20	664		Grey clay		×	
	20	673		Fine grey sand	х		
Was drive shoe used? Y X N Shoe Depth(s)	20	677		Sandy grey clay w/cemented layers		X	
9. PERFORATIONS/SCREENS:	20	682	690	Grey clay		×	
Perforations ☐ Y ☒ N Method	20	690	695	Grey sandstone		Х	
Manufactured screen X Y N Type Johnson Wife Wiap	20	695	736	Grey clay		X	
Method of installation Lower in	20	736	740			X	
From (ft) To (ft) Slot size Number/ft Diameter (nominal) Material Gauge or Schedule	Come	leted Dec	oth (Mea	surable): 669'			
482 582 .025 12 S.S		Started: J	un 28.	2011 Date Completed: Aug 26, 20	11		
	Date	Starten:	IC CET	RTIFICATION			
	I IANe	certify th	at all mi	nimum well construction standards were compile	d with	at	
	the ti	me the ri	g was re	emoved.			
Length of Headpipe Length of Tailpipe	: Com	nany Nar	ne Riy	ride Inc Co.No. 33	3		
Packer Y X N Type			10	1 1 1 1 1	- 111	-11	
10.FILTER PACK:	¬ Prin	cipal Dril		Date	17	./	
Filler Malerial From (ft) To (ft) Quantity (lbs or ft ³) Placement method	*Drill	er la	1	Date 9	<u> </u>	///	
#8-16 Sand 465 674 37,800 Dry pour	/	1		Date			
	900	rator II _	in		line	1.	
11. FLOWING ARTESIAN:	Oper	rator I 🌌		Date	14/1		
	/ - +=:-	nature c	f Princ	ipal Driller and rig operator are required.			
Describe control device	י בטיש י	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					
DESCRIPE COURTOR DEVICE							

Form 238-7 6/07

Describe control device ____

IDAHO DEPARTMENT OF WATER RESOURCES WELL DRILLER'S REPORT

. WELL TAG NO. D 0060024	12. ST	ATIC W	ATER	LEVEL and	WELL TEST	S:			
912768-861400 Partition of the state water level (ff) Static water level (ff)									
Wester right or injection well # 63-2839 63-3329 63-3366 63-3396	Water temp. (°F) Bottom hole temp. (°F)								-
2. OWNER: Bernie Teunissen 63-8232,63-8253,63-29025	Descri	Describe access port						_	-
Name Beranna Dairy	Well to	est:				ু Test meth			lowing
Address 9166 Perch	Draw	down (feet)	Dis yie	charge or eld (gpm)	Test duration (minutes)			Alf ar	tesian
City Caldwell State ID Zip 83607									
B.WELL LOCATION:									
				omments: _		Harrison systematic			
Twp. 02 North ⊠ or South ☐ Rge. 03 East ☐ or West ⊠ Sec. 16 NW 1/4 NW 1/4 SW 1/4 10 acres 1/4 NW 1/4 SW 1/4 NW 1/4 SW 1/4	13. LIT Bore				pairs or aban		-1	l w	ater
10 acres 40 acres 160 acres	Dia. (in)	From (ft)	To (ft)	Remarks	i, lithology or des abandonment, v	vater temp.	airs or	Y	N
Gov't Lot County Canyon	(in)	1							
Lat. N 43 o 30.560 (Deg. and Decimal minutes)				Bottom I	nole water te	emp. 83°	@ 740		
Long. W116 • 42.766 (Deg. and Decimal minutes)				taken wi	th a Hobo te	emp logge	Γ		_
Address of Well Site 500' to the East off of Perch, 9168 Perch									
County Canyon			-						
Lot Blk Sub. Name	-		-					+-	-
4. USE:		-						1	
□ Domestic □ Municipal □ Monitor ☑ Irrigation □ Thermal □ Injection □ Other									
								-	-
5. TYPE OF WORK: ☐ New well ☑ Replacement well ☐ Modify existing well				-				+	+-
Abandonment Other	. —	-		-				1-	+
6. DRILL METHOD:	-			-					
6, DRILL METHOD: ☐ Air Rotary ☐ Mud Rotary ☐ Cable ☒ Other Reverse									
7. SEALING PROCEDURES: Seal material From (ii) To (ii) Quantity (lbs or fi³) Placement method/procedure	1								
Searmaterial Profit (t) 10 (t) Godinity (65 Seria) Profit (t)									-
									-
8. CASING/LINER:	·						=	+	+
Diameter From (tt) To (tt) Gauge/ Material Casing Liner Threaded Welded		-	-	-				+	+
(nominal) From (t) Schedule Schedule	-	-		-				+	1
		1							
									-
Was drive shoe used? Y N Shoe Depth(s)								+-	-
9. PERFORATIONS/SCREENS:		-	-					+-	+-
Perforations Y X N Method			-	-				-	
Manufactured screen ☑ Y ☐ N Type Johnson wire wrap	_	-	-	+			_		
Method of installation		-	-	_					
Diameter C. Diameter	1	WANT CONTRACTOR	40.7	o sections of the first	869'				
From (ft) To (ft) Slot size Number/ft (nominal) Material Gauge of Schools	Com	pleted Dep	oth (Me	asurable): 6	2000	Δ11	n 26 2	011	_
659 664 .025 12 S.S.		Started: J				ompleted: Au	9 20, 2	011	
	14.1	DRILLER	'S CE	RTIFICATI	ON: I construction s	tandarde we	re como	lied wit	h at
	ار ا ا the t	certify the ime the ri	at all m g was i	ıı ılmum wel removed.	i construction s	iailuaius We	,, a comp	nou yell	,,
Length of Headpipe Length of Tailpipe				erside Ir	10	c	, No 3	33	
Packer Y N Type									
10.FILTER PACK:	*Prir	ncipal Dril	ler		Allie		ate		
Filter Material From (ft) To (ft) Quantity (lbs or ft ³) Placement method	*Dril	ler					Date		
	- 1								
L. TI CHENIC APTECIAN									
11. FLOWING ARTESIAN: Flowing Artesian? ☐ Y ☐ N Artesian Pressure (PSIG)					and rig opera				

	•
Form 238-7* IDAHO DEPARTMENT OF WATE	ER RESOURCES Office Use Only
WELL DRILLER'S R	
	C65741 Twp RgeSec
1. WELL TAG NO. D 000 1313 04 1 DRILLING PERMIT NO 63-98 - W 0501 - 000	1/41/4
DRILLING PERMIT NO. 63-98-60 033/-000	11. WELL TESTS: Lat: : Long: : :
Other IDWR No.	□ Pump □ Bailer ★Air □ Flowing Artesian
2. QWAIER: P	Yield gal./min. Drawdown Pumping Level Time
Name Tourissen Beranna Davry Address 16754 Nellinam av	150-200 / hr
Address 16734 Navember Cive	9
City Corona State CAZIB 91720	Water Tarris 1720 Ballon halo tarris
3. LOCATION OF WELL by legal description:	Water Temp. Water Quality test or comments: Tron 2 Ph 75
	Crains 8 Depth first Water Encounter 359
Sketch map location must agree with written location.	12. LITHOLOGIC LOG: (Describe repairs or abandonment) Water
	Bore
X Twp. 2 North or South	Dia From To Remarks: Lithology, Water Quality & Temperature Y N
Rge3 East □ or West 🕱	16" 0 15 Topsoil
W E Sec. 17 , NE 1/4 NE 1/4 1/4 1/4 1/4 1/4 1/4 1/4 1/4 1/4 1/4	16 15 20 Sand & gravel
GOVI LOL COUNTY - CANTON	12 20 50 Sand & gravel
Lat: : Long: : :	1 50 61 Sand gravel Felay
Address of Well Site Closet address to well	" 61 105 Tan Clay
Give at least name of road + Distance to Road or Langmark) City Caldwell	" 105 133 Coarse Sand Felay
	TO SEAS CHARLES SOME THINK CHELLY
Lt BlkSub. Name	" 275 300 Clay w/sand packets
4 Nor.	" 305 315 Crev asia w/ clay
4. USE: Commestic Municipal Monitor Irrigation	1. 315 320 Darker Blue clay
Thermal Injection Other	" 320 327 Lt Blue clay
	" 321 345 Blue & brown clay W/ Coarses Sand
5. TYPE OF WORK check all that apply (Replacement etc.) New Well Modify Abandonment Other	" 345 348 clay
6. DRILL METHOD	" 348 349 Sand
Air Rotary Cable Mud Rotary Other	" 349 354 clay
	" 354 360 Sand w/short clay layers X
7. SEALING PROCEDURES	" 360 361 clay
SEAL/FILTER PACK AMOUNT METHOD Material From To Sacks or	" 361 364 Sand
Pounds	" 364368 clay
Bentonite 0 20 1250 Overhou	" 368 380 Sand X
	" 390 395 Brownish Sand X
Was drive shoe used? XTY D N Shoe Depth(s) 140 \$ 505	" 399 397 clay
Was drive shoe seal tested? □ YX N How?	" 397 406 Brownisk Sand
8. CASING/LINER:	" 406 408 clay-blue
Diameter From To Gauge Material Casing Liner Welded Threaded	11 408 419 Sand & Sand Stone price X
8" +2 506 250 Stul × 0 × 0	1" 419 425 Clay-Blue
12 +1 139 350 Stul X - X -	" 425 429 sandy elay exand stone person
	" 428 438 clay w/ceepanis X
Length of Headpipe Length of Tailpipe N	MERQER MED Clay - Blue
9. PERFORATIONS/SCREENS	" 445 449 blu slay w/short sand Stratus
Perforations Method A	1010 41948 continued on pay 2
Screen Type Nagavila	Completed Depth 3/8 (Measurable) Date: Started 7.23.98 Completed 8.6.98
From To Slot Size Number Diameter Material Casing Ciner	Date: Started 7.23.98 Completed 8.6.98
502 518 MILE 5" 88 - 11 - 11	13. DRILLER'S CERTIFICATION
AUG 1 7 1998	I/We certify that all minimum well construction standards were complied with at
WATER RESOURCES	the time the rig was removed.
WESTERN REGION	Adamson Pumos Nich 1457
10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:	Company Nameldamson Pump & Drillim No. 0457 Firm Official Davis Ciglamson Date 8-13-98
212 ft. below ground Artesian pressurelb.	Firm Official Flavor Colores and Bala R-12-90
Depth flow encounteredft. Describe access port or	
control devices:	Driller or Operator DAVE HOMEON Date 8-13-98
	The same of the sa

orm 238-7.	RRE	ടവ	ROFS			Office Line Only		-	1
WELL DRILLER'S RI					Inspecte	Office Use Only			
CONTRACTOR OF THE PROPERTY OF	CPUI	11	06	55742		Rge	Sec	-	
WELL TAG NO. D 0007372 pg 2				1	1	/41/4	1/4	- k	l
RILLING PERMIT NO. 63-98-10 053/-000	11. V		TES		Lat: :	: Long:	. :		
ther IDWR No		□ Pu	1 10 14	□ Bailer	Air	□ Flowing	Artesian		
OWNER: Ryanga Asia		eld gal./		Drawdown		Pumping Level	1 7	ne -	-
des 16415 & Wellman aug	12	0'6	100				- //	4	
ity Orionami State A 710 91720									-
TO STATE STA	Water	Temp.		72	10	Bottom, t	ole temp.		
LOCATION OF WELL by legal description:				comments:	Tron	2 PK	4 7.5		
ketch map location must agree with written location.			uns			Depth first Water	er Encounter	3	5
N	12. L	ITHO	LOGI	C LOG: (De	scribe re	pairs or aband	lonment)	Wa	ter
	Bore	From	To	Remarks: Lithe	ology. Wate	r Quality & Tem	perature	γ	I,
Twp. North X or South	Dia.	110111		Constr		From a			Н
Rge. 3 East 0 or West X Sec. 17 NE 1/4 NE 1/4	8	449	461	The second secon		illy Blue			-
Gov't Lot County Con work			485			lai laur		Y	
Lat: Long: . d . ,		485		Blu Cl		1			
Address of Well Site Closest address of		487	490	Ben S	and				Ĺ
Well to 9168 Parch Ln City Caldwell Give at least name of road + Distance to Road or Candmark)	"	490	492	Blue C	lay				
\$2,000 M 2000 M	* *	492	494	sand.				_	-
tBlkSub. Name			505 518			-		H	-
HOF.	-	حرب	-40	Suna				4	
. USE: DCDomestic □ Municipal □ Monitor □ Irrigation									
☐ Thermal ☐ Injection ☐ Other		:•					, ,		
. TYPE OF WORK check all that apply (Replacement etc.)									٠.
New Well Modify Abandonment Other									-
DRILL METHOD	\vdash								L
XAir Rotary Cable Mud Rotary Other	-								H
. SEALING PROCEDURES								-	H
SEAL/FILTER PACK AMOUNT METHOD			-						2
Material From To Sacks or Pounds									
Bentonde O 20 1250 Overbore									
									-
110 \$ 500	-								_
Vas drive shoe used? ☐ N Shoe Depth(s) 140 3 505	+1					2	1,0		-
A. CASING/LINER:			-						-
						(MESTARIE			
8" +2 506 250 Skel X 0 X 0			CE	LVED		RECEIV	ED		
12" +1 139 25 3kel X " "		1-1) <u>-</u>	VED					
		CE	0 1-	4 1998		AUG 171	998		-
ength of Headpipe Length of Tailpipe MICROF	1 MF	DE		1900	-	WATER RESOUR	BCE0	_	\vdash
. PERFURATIONS/SCREENS				aler Resources		WATER RESOUR WESTERN REG	HON	-	-
Perforations Method Nov O Screen Screen Type Magailla HOV O	1 1000	pleted		epth ,	518		(Meas	الــــــ	ic)
Screen Type / Ogawa	1	pie≀ed ::Sta		7,23	98	Completed	8.6-	28	(0)
From To Slot Size Number Diameter Material Casing Liner	2016	. 510	(E)					_	-
503 518 016 5" 35 0				CERTIFIC					
					ruction stand	dards were compli	ed with at		
		20	^	emoved.) 4	10.4	rgss.rgra		,
5	Сотра	ny. Nar	belde	amson t	ump	Bullim	No.04.	57	1
O STATIC WATER LEVEL OR ARTESIAN PRESSURE:		5	X	SA	/	DrillFirm _Date B-V		555	
ft. below ground Artesian pressurelb.	Firm O	fficial	DE	m Color	41 0000	_Date 8-/:	5-48		2
lands Many executations	and		-		1				
epith flow encounteredft. Describe access port or		- 4	- J	Alm ILAL	ura: 1 -	P-12	90		
epth flow encounteredft. Describe access port or ontrol devices:	Driller (or Ope	rator	AUE HOA	irm Official & Op	ate <u>873</u> ~	98		

Form	238-7
11/97	

IDAHO DEPARTMENT OF WATER RESOURCES

WELL DRILLER'S REPORT

	Offi	ce Use On	ly
-0	Inspected by		
59448	Twp	. Age	_Sec _
	1/4	1/4 _	1/4

1. WELL TAG NO. D 0000 294	1/41/4	-
DRILLING PERMIT NO. 63-97-C-0881 - 200 Other IDWR No. 63-03366	11. WELL TESTS: Lat: : Long: : :	-110
2. OWNER:	Yield gal./min. Drawdown, Pumping Level Time	
Name Teunissen - Beranna Dairy		
Address 9166 Perch City Coldwell State ID Zip 83607		_
City Coldwell State ID Zip 8 3 660 F	Water Temp. Bottom hole temp.	
3. LOCATION OF WELL by legal description:	Water Quality test or comments:	
Sketch map location must agree with written location.	Depth first Water Encounter	
N.	12. LITHOLOGIC LOG: (Describe repairs or abandonment)	Water
7 7 11 15 7 2 11 15 7	Bore Dia From To Remarks: Lithology, Water Quality & Temperature Y	N
Twp. 2 North S or South □ Rge. 3 East □ or West S	26 0 3 Top Soil	+
W Sec. 17 . 1/4 NF 1/4 NF 1/4	1 3 26 Hard Clay & Gravel	+
Sec. 1'7 1/4 NE 1/4 NE 1/4 NE 1/4 Gov't Lot County Canyon	Zb 63 Sand & Coravel	
Long: Service comments	- to3 +13 BEN. CTUY & SAND SHIS -	41 120
Address of Well Site reach Lane	113 145 Sand & Gravel Stks Clay	-
(Give at least name of road + Distance to Fload or Landmark) City Caldwell City Caldwell	145 226 Sand & Clay Layers	_
Dil O. b. Nicola	228 330 Blue & BRN. CIAY 230 334 COURSE Sand	< -
Lt BlkSub. Name	334 384 Blue Clay	+
4. USE:	384 470 Blue clay stks Sand	
□ Domestic □ Municipal □ Monitor ☒ Irrigation	470 482 Fine Sand X	
☐ Thermal ☐ Injection ☐ Other	482 537 Clay & Sand Stks	
5. TYPE OF WORK check all that apply (Replacement etc.)	537 548 Sand & Sand Buttons X	
□ New Well □ Modify □ Abandonment ☒ Other	548 590 Blue Clay sand stks	_
6. DRILL METHOD □ Air Rotary □ Cable □ Mud Rotary □ Other Resease	590 640 Sand Fine & Medium X	+-
□ Air Rotary □ Cable □ Mud Rotary □ Other Kesese	BIL DEC BILE CLO SE. SENG	-
7. SEALING PROCEDURES		
SEAL/FILTER PACK AMOUNT METHOD		
Material From To Sacks or Pounds		-
Bentonite 5/8" a 350 50,000 * Overbore	RECEIVED	+
Filter Sand 350 650 36,000 DUER bore	DEC 1 3 1999	+
Was drive shoe used? □Y 🙉 N Shoe Depth(s)	1 0 CC 1 3 1939	
Was drive shoe seal tested? □ Y□ N How?	Department of Water Resources	
8. CASING/LINER:		
Diameter From To Gauge Malerial Casing Liner Welded Threaded		+-
16" + 6' 535' 375 Steel A 0 B 0		-01
16' 545' 590' 375 Steel B 0 B 0	VICA -	
Length of Headpipe <u>541'</u> Length of Tailpipe 10'	CHOFILM	
9. PERFORATIONS/SCREENS	126	
Perforations Method <u>Wike Wear</u>	li diga	
Screen Type Johnson S.S.	Completed Depth 6.50 (Measure	
From To Slot Size Number Diameter Material Casing Lines	Date: Started	/7_
535' 545' .035 16" S.S	13. DRILLER'S CERTIFICATION	
590' 640' 035 16" S.S. 0	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. 3.33	3
10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:		
220_ft. below ground Artesian pressurelb.	Firm Official Date 12-9-99	
Depth flow encounteredft. Describe access port or control devices: Z" PiPe & CUP	and July July 2	
control devices: Z" PiPE & CILP	Driller or Sperator Date (Sign once if Firm Official & Operator)	
FORWARD WHITE COPY T	1 / /	

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 7. WATER LEVEL				/EL				
Name JAMES KRAFT	Static water level 200 feet below land surface.							
Address 423 3RJ Rd North Nampa	Flowing? 🗆 🔭 🖳 No 🦯 G.P.M. flow				w	_		
*	Artesian closed-in pressure p.s.i. Controlled by:							
Owner's Permit No.		Temp	erature	OF, Quality	-			
2. NATURE OF WORK	8.	WELL	. TEST	DATA				
☑ New well □ Deepened □ Replacement		□ Pu	mp	□ Bailer 🗗 Air 🗆	Other			
☐ Abandoned (describe method of abandoning)		Discharg	e G.P.M	. Pumping Level	Hours Pu	mped		
Harris Salari de Marchado de Companyo de C			3		2			
3. PROPOSED USE								
		_		1 1	Pro same		-	
Domestic □ Irrigation □ Test □ Municipal □ Industrial □ Stock □ Waste Disposal or Injection				IC LOG		1		
☐ Other (specify type)	Hole Diam.	From	To			Wa Yes	ter No	
4. METHOD DRILLED	8"	101	19 57	Sandy clay Sandy clay	/		Y	
☑ Rotary 🏻 Alr 🔲 Hydraulic 🗂 Reverse rotary	6#	571	60	Hard brown clay			Ш	
☐ Cable ☐ Dug ☐ Other	6#	1161	116	Clay-soft seams & Seams of clay		-	H	
5. WELL CONSTRUCTION	611	1341	140	Clay			A	
Casing schedule: Steel Concrete Other		1401					\\ \ \	
Thickness Diemeter From To	-6H	1771	214	Sand & clay layers		X	ょ	
	6×	2171	255	Sand & clay layers		X		
inches feetfeet	611	2551	288 335	Snad- hard seam ol		×	بد	
inches inches feet feet Was cesing drive shoe used? Yes No	611	3351	524	Shale			X	
Was a packer or seal used? ☐ Yes 🕏 No	= ;							
Perforated? □ Yes 虻 No How perforated? □ Factory □ Knife □ Torch					**	-		
Size of perforation inches by inches Number From To		_						
perforations feet feet	-						=	
perforations feet feet feet feet								
Well screen installed? ☐ Yes 💂 No Manufacturer's name				Tarrier Transfer	\mathcal{D}		-	
Type Model No				1.0	\$1)			
DiameterSlot sizeSet fromfeet tofeet DiameterSlot sizeSet fromfeet tofeet				JUN 60 1573	a.w			
Gravel packed? ☐ Yes 💂 No ☐ Size of gravel								
Placed from feet to feet Surface seal depth Material used in seal: □ Cement grout				Western Regional Office	IV	ļ	_	
☑ Puddling clay ☑ Well cuttings Sealing procedure used: ☐ Sturry pit ☐ Temp. surface casing								
				Jul .	h-	-		
Method of joining casing: ☐ Threaded		-		Department of Water Reso	MITCES!			
☐ Cemented between strata Describe access port	10.			Western Regional Offi	C8	L		
		Wo	rk start	ed May 8-78 finished	May 9.	78	_	
6. LOCATION OF WELL	11.	DRIL	LERS (CERTIFICATION				
Sketch map location must agree with written location.				that all minimum well constru	uction standar	ds we	ere	
N Subdivision Name		compli	ed with	n at the time the rig was remov	ed.		. 1	
		Firm N	lame B I	LLL DOTY WELL DRILLIN	fm No4	2	=	
w = 1 = 1		Addres	s Rt	# 7 Caldwell Da	ate5/10	6/78	(8)	
Lot No Block No				rm Official Bill K	Partin		¥	
SOLUTION		41Busq	₽λ (L∏	and	- Nill		-	
County Canyon			((Operator) Fruit (3)	erg		_, [
NE 1/2 NE 1/2 Sec. 20 T. 2 NO, R. 3 PW.								







JAN 21 1976

WELL DRILLER'S REPORT

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

1. WELL OWNER	7. W	ATER	LEVEL			
1. WELL OWNER				A		- 1
Name John Johnson	St	tatic wa	ter level	16/ feet below land surface	1.	- 1
00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	P P	lowing?	U Y€	S No G.P.M. flow		- 1
Address				pressurep.s.i.		- 1
Owner's Permit No. <u>(-3 - 8 - 3 - 2</u>	Controlled by Valve Cap Plug					_
2. NATURE OF WORK	8. W	ELLT	EST DA	ТА		1
New well Deepened Replacement	☐ Pump ☐ Bailer ☐ Other				2901	
and contact to	D	ischarge	G.P.M.	Draw Down Hours		
Abandoned (describe method of abandoning)						
Carma R. les backfilled with						* ***
Caring Bull backfilled with Dudling Clay to from 0 to 100	-					
3. PROPOSED USE				02891	25	
Domestic EX Irrigation Test Other (specify type)	9. 1	LITHOL	OGIC L	03823	OZ	₹.
Municipal 🗀 Industrial 🔲 Stock 🔲 Waste Disposal or	Hole	De	pth	PA-Annial /	Wet	*****
Municipal Industrial Stock Waste Disposal or Injection	Diam.	From	To	Material (Yes	No
4. METHOD DRILLED		1		top soil	+=	
Quality or		10		fine brown sand	+-	Н
☐ Cable XX Rotory ☐ Dug ☐ Other		60		sand stone		
		63	80	gray clay		
5. WELL CONSTRUCTION		80		brown sand/streaks of sand	ston	12
Diameter of hole <u>28</u> inches Total depth <u>600</u> feet		92		fine brown sand		\vdash
Casing schedule: X 25 Steel		200		brown clay fine brown sand	+	\vdash
Thickness Diameter From To		216		brown clay	+	-
. 250 inches 16 inches + 2 feet 172 feet		232		brown clay		
.250 inches 16 inches 202 feet 260 feet		234	***************************************	sandstone		
.250 inches 16 inches 310 feet 318 feet inches inches feet feet		236		blue & brown clay	-	_
inches inches feet feet feet		246		brown sand		-
Inches rear		247		blue & brown clay	+	-
Was a packer or seal used? ≘ - 100 Yes □ No		249		brown & blue sand blue clay	+-	-
Perforated? ☐ Yes ☐ No		262		blue sand		
How perforated? ☐ Factory ☐ Knife ☐ Torch		264		blue clay		
Size of perforation inches by inches Number From To		266	291	blue sand fine	_	_
perforations feet feet		291		blue clay		
perforations feet feet		305 31.0		blue send blue clay	+	-
perforations feet feet		-		JOE CLAY		
Well screen installed? EXYes □ No Manufacturer's name <u>Roscoe Moss</u>					+	⊢
Type Full Flow Model No.	_	-			_	
Diameter16 Slot size Set from 172 feet to 202 feet		-		or a large near 1 and 1 and 2	1 -	p - 00% -
Dentater16 Slot size Set_from 260 feet to310feet	1,120,00					
CTATALONS VM Van III No Sing of ground					-	
Grand packed? XIII Yes No Size of gravel				,	-	-
2.03		-		- Mett - M - 2	+	\vdash
Surface seal depth 100 Material used in seal Coment grout						
Puddling clay : Well suffings	7					
Sedisapprocedure used Sterry pit Temperary surface cosing						Щ.
Overbore to seel depth	•					
6. LOCATION OF WELL	10.	Vork sta	wend	11/2/75 finished 11/6/75		
		VOIK ST	r ted	azy cy		-
Sketch map location must agree with written location.				and the same of th	`	3
63 1				TIFICATION		
Subdivision Name	1	Firm No	PETE	COPE DRILLING CO., INC FIRM	No.21	13
W 9 - E	1		P.O.1	30X 351	/AX/.	75
Lot No Block No	1 4	Address	tag t.T (lian, Idaho 83642 Dote 11	, and	-
		Signed h	y (Firm	Official) Leti Come		_
8 0			•	ind in In- an		
County Canyon	Operator Manler				_	
1 2 N/9, R. 3 N/9, R. 3 N/W	Au 2					
			-	and the same		_

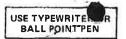




WELL DRILLER'S REPORT

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

1. WELL OWNER	7. WATER LEVEL						
Name John Johnson	Static water level feet below land surface						
	l F	lowing	2 D Y	es Do G.P.M. flow			_
Address Caldwell, Idaho 83605	Temperature° F. Quality						_
Owner's Permit No	Artesian closed-in pressurep.s.i, Controlled by Ualve Cap Plug				7 Plug		- 33
		75-77		THE PERSON NAMED IN COLUMN			-
2. NATURE OF WORK	8. WELL TEST DATA						
Fedrill □ Deepened □ Replacement	5	Mar					
ata	D	ischarge	G.P.M.		Draw Down Hours Pumped		
☐ Abandoned (describe method of abandoning)	2	000		390	6		
				1			
3. PROPOSED USE					- 272 000		
3. PROPOSED USE							
☐ Domestic 🕱 Irrigation 🗆 Test	9. I	LITHOL	OGIC I	LOG	0382	<u>33</u>	
☐ Municipal ☐ Industrial ☐ Stock	Hole Dism.		pth	Muterial		Ves Ves	
O Managar Li Massilli Li Otosi	Criani.	From		Top Soil		105	NO
4. METHOD DRILLED		5		Hard Pan			
Reverse □ Cable ⊠ Rotory □ Dug □ Other	-	9		G#avel, Clay & Cind			_
	-	19	21 26	Clay & Cinders Gravel, Clay & Cind			
5. WELL CONSTRUCTION	-	26	36	Cinders small grave			
Diameter of hote 25 tasks Tool Just 501 Free		36	38	Cemented gravel & C			
Diameter of hole 25 inches Total depth 591 feet Casing schedule: 🗵 Steel 🗆 Concrete		38	54	Semi Cemented Grave			
Thickness Diameter From To		51	51	Hard Sandy Clay & S Cinders, sand & occ		\vdash	
		52	62	Coarse sand	LOCK		
		62	80	Hard little sand st	one		
		70	73	Lt. Green Clay			
inches inches feet feet feet	-	73	78	Sandy Clay			
	78 84 Fine dark sand			t Crode		\vdash	
Was a packer or seal used? ☐ Yes ☐ No			104	Silt stone (Hard) Lt. Green Green Clay			
Perforated?		104	130	Fine Gray Brown Sand			
How perforated?			131	Clay			
Numb er From To	-		151 152	Sand Small Gravel			
perforations feet feet		-	155	Green clay			
perforations feet feet		155		Fine Brown Sand			
perforations feet feet		159		Medium Sand			
Well screen installed?		164					-
Manufacturer's name Roscow Moss Free Flow		172		Brown Clay			
Type Free Flow 1/8 Perf-Model No. Diameter 16 Slot size Set from 321 feet to369 feet	0.50						
Diameter 16 Slot size Set from 423 feet to 474 feet		261	231	Shaley Green C lay			-
16 565 580		231 252	252 254	Clay (Softer) Extra Fine Dark Bro	wn Sand		
Gravel packed? □X Yes □ No Size of gravel 3/8-		254		Green Clay	J.J. VGLIL		
Placed from Top feet to Bottom feet		268		Med. to Coarse Sand		\perp	
Surface seal? Ty Yes D No To what depth 185 feet		271	296	Shaley Green Clay		+	-
Material used in seal 💢 Cement grout 🗆 Puddling clay		296 300	300 30 6	Extra Fine Brown Sa Green Clay			
6. LOCATION OF WELL		302	303	Extra Fine Brown Sa	nel		
Sketch map location must agree with written location.	10.	/a	11 بيد	1/22/72 diminis	11/30/7	2	
· riii	Work started 11/22/72 finished 11/30/72						
 							
w	11. DRILLER'S CERTIFICATION This well was drilled under my supervision and this report is						
60				of my knowledge.		2/	R
-24 A					1	W.	
	Pete Cope Drilling Company 213				_		
Camulan	Driller's or Firm's Name Number P.O. Box 561 - Meridian, Idaho 83642						
County Cat My D	Aridrass				- [
W 15 50 16, T. 2 N/K R. 3 KW	Stand B. Core						



State 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.

	WELL OWNER	7. WATER LEVEL						
	Name John Johnson	s	Static water level feet below land surface					
	Address Page 2	F To	Flowing? Fempera	? □ Y ature	Yes ☐ No G.P.M. flow ° F. Quality	_		***
	Owner's Permit No.	A	Artesian	closed-in	in pressurep.s.i. □ Valve □ Cap □ Plug	-		
-		-						
	NATURE OF WORK	1		EST DA				
	☐ New well ☐ Deepened ☐ Replacement			G.P.M.		es est	-	
	☐ Abandoned (describe method of abandoning)		ischarge	G.P.Im.	DISW DOWN	Pun	po.	
3.	PROPOSED USE		_				-	
	☐ Domestic ☐ Irrigation ☐ Test	9. [LITHOI	LOGIC L	03823	34	_	
	☐ Municipal ☐ Industrial ☐ Stock	Hole Diam.	From	epth To	- Materia)	T		No
4.	METHOD DRILLED		303	311	Clay	7	F	
			316	319	Alt. Lrg sand & Clay Green Clay	#	L	士
_	☐ Cable ☐ Rotory ☐ Dug ☐ Other		319	332_	Med. & Coarse Sand	+	1	_
5.	WELL CONSTRUCTION				Stroks of Clay Fine Sand	1	t	
	Dismoster of hole inches Total denth fact		336	3364	Dry Shaley Clay	7	1	1
	Dlameter of hole inches Total depthfeet Casing schedule: Steel Concrete	<u> </u>				+	+	-
	Thickness Dignieter From To	<u></u>	364 417		Blue Green Clay Med. & Fine Sand	+	+	\vdash
	Thickness Oignieter From Toinchesinches +feetfeetinchesinchesfeetfeet				Blue Sandy Shell	1	1	
	inches inches feet teet		47.5	481	Blue Clay	7	7	
	inches inches feet feet feet feet	4			Class Class Class	+	+	-
	inches inches feet feet				Green Shaley Clay Fine Black Sand	+	+	-
		1	577		Sandstone Cinders & fine sa	ne	+	1
- 91	Was a packer or seal used?		581	582	Fine Black Sand	Ī	t	
	Perforated?			585	Lt. Gray Clay	7	L	
	Size of perforation inches by inches	H	585	591	Dark Gray Clay	+	+	-
	Number From To	1	481	1.96	Blue Clay	+	+	-
	perforations feet feet		486	495	Fine Blue Black Sand	1	T	
	perforationsfeetfeetfeet		495	509	Blue Clay	+	+	
	portorations	\vdash			Med. Blue Sand	+	+	-
	Well screen installed? ☐ Yes ☐ No		536		Med. to Coarse Sand Blue Clay	+	+	-
	Manufacturer's name Model No		5.38	541	Blue Black Sand	1	T	L,
	Diameter Slot size Set from feet to feet		541	543	Fine Sand	+	1;	-
	Diameter Slot size Set from feet to feet	-			Silty Extra Fine Blue Black Fine Sand	98	ha	-
			344	224	Fine Saug	+	+	
	Gravel packed?					1		
	Placed fromiear toion	-				+		_
1	Surface seal?	\vdash			 	+	-	-
	Måterial used in seal					1		
6.	LOCATION OF WELL					\perp		
	Sketch map location must agree with written location.	10. W	······································	-+ad	finished			
	ו דוד די		Ork sum.	/teu	Time feet	Her	_	-
	├├├├├							
	w				ERTIFICATION rilled under my supervision and this repor	→ ig		
	 				of my knowledge.	nt is	-1	C.
		1	-	15 .	£	70	" ¥	
	8	t				_	-	_
		D	riller's or	or Firm's N	Name	ımber	1	
	County	_A	ddress	===				
	W 135 W Sec. 16, T. 3 NA R. 8 M	1			_			
-		8	igned By		Date			

Form 238-7 11/97

IDAHO DEPARTMENT OF WATER RESOURCES WELL DOLLED'S DEDORT

Inspe	Office cted by	ce Use Onl	у	
Twp		Rge	Sec	
-	1/4	1/4	1/4	
	—	·' ·		

WELL DUILLEN 9 F	IEPU	ואו		Topological	
1. WELL TAG NO. D 880802 · 809901				Twp RgeSec	[]
				1/4 1/4 1/4	- 1
DRILLING PERMIT NO.	11.	WELI		STS: Lat: : : Long: ; ;	
Other IDWR No.		□ P	ump	□ Bailer □ Air □ Flowing Artesian	
2. OWNER:		Yleic gaí	/min.	Drawdown Pumping Level Ti	η θ
Name TEUNISSEN-BERANNA DAIRY			o en water		
Address 9166 REACH ZD City CALBWELL State DD Zip 85607	-				
City CALALLEU Chain TA 7 in 831 07		********			
State 40 2th 80 GOT	ا	-			
A LAATIAN AT MINI I	Wate	er Temp.	(Bottom hale temp.	
3. LOCATION OF WELL by legal description:	Wate	er Quality	test or	comments:	
Sketch map location must agree with written location.				Depth first Water Encounter	
N	12.	LITHO	LOGI	C LOG: (Describe repairs or abandonment)	Water
	Bore	1	r		
Twp. 2 North or South	Dia		To	Remarks: Lithology, Water Quality & Temperature	YN
Ros 3 Fast D or West XX		388	222	POURED 1140S OF CEMENT GROUT	
Sec. 16, 1/4 NE 1/4 SW 1/4 Gov't Lot County CANYON				POUZED IMBS OF CONCRETE	
Gov't Lot County CAN 49 MONEY	-			POVEED 1200 LBS OF BENTONITE	
Lat: Long:	74 :	1/2			_
	-		-	WELDEN CAP ON	
Address of Well Site PERCH RD		-		<u> </u>	
(Give at least name of road + Distance to Road or Landmark).					
וייים או ושפנו ווייושי או ויסטט יי טואומוושל (ט קסשט סי בפונטןקוניה,		<u> </u>			
LtBlkSub. Name					
			x 12		
4. USE:					
□ Domestic □ Municipal □ Monitor ★ Arrigation	1				
☐ Thermal ☐ Injection ☐ Other		1			
	-	 			
5. TYPE OF WORK check all that apply (Replacement etc.) New Well Modify Abandonment Other	-	 -			-
☐ New Well ☐ Modify 🥱 Abandonment ☐ Other					-
6. DRILL METHOD					
Air Rotary 🗀 Cable 🗀 Mud Rotary 🖂 Other					
7. SEALING PROCEDURES	Í.				
SEAL/FILTER PACK AMOUNT METHOD					
Material From To Sacks or Pounds		1			
CEMENT GROUT 386 200 11 YAS POURED					-
CONCRETE 222 12 114DS POURED	-			**************************************	
	-	1			
DENTONITE 12 0 1200 LBS POUZED		\vdash			
Was drive shoe used?			- C		
Was drive shoe seal tested? Y N How?	L_			RECEIVED	
8. CASING/LINER:	L				
Dismeter From To Gauge Material Casing Liner Welded Threaded				DEC 3 1 2003	
				WATER RESOURCES	
	-			WESTERN REGION	-
		-	\rightarrow		
Length of Headpipe Length of Tailpipe	-	-			
9. PERFORATIONS/SCREENS					
Perforations Method					
Screens Screen Type	Соп	pleted	De	pth(Measu	rable)
				2-22-03 Completed 12-24-03	
From To Slot Size Number Diameter Material Casing Lines		0. 0.01	100 22	Oblipieta 15 4 7 05	
	12	OBILI	ED'C	CERTIFICATION	
				nimum well construction standards were complied with at	
	tries (I)?	te the rig	j was re	imoved.	
	Commo	. a. Nom	LLAN	LESTON DRILLING-BOISE FIRM No. 35	
10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:	Compa	ariy Nam	ALTICO !	Firm No. 30	-
		e Tarley (and			
ft. below ground Artesian pressurelb.	Firm C	Official	الحرجا	Date	
Depth flow encounteredft. Describe access port or	and		/	2	
control devices:	Driller	or Opera	alon	noly Mourson Date 12 29-03	
V		60	1	(Sign once if Firm Official & Operator)	

WELL LOG AND REPORT OF THE STATE RECLAMATION ENGINEER OF IDAHO

0!a Na	שעב פ	Ja wal	N _a	County Carry	.a J		034927
Permit ING.	0 /	wen	. /	,		Locate wel	l in section
Owner	Joh	no o	phis	10 1101	7.	2.	
Address	Dams	les"	l Dul	Vina (Leonare	1)	NW¼	NE1/4
Address	273	Dan	in A	we hampy	Odako		
Well locat	ion W	SWY	. Sec. 10	T. 2 NA R. 3	k/w	SW1/4	SE1/4
Size of dri	lled hole	16	w	Total depth of well	25 H	,	
Give depti	n to standing	g water from	m the groun	d 250 f Water temp.	°Fahr.		
On "Pump	ing Test" d	elivery was	g.p	.m. ore.f.s. Drawdown	wasf	eet.	
Size of pur	np and moto	or used to m	ake test	I don't have	e the	test	repart
Length of t	Ime of test_		hours	minutes.			
lf flowing	well, give	flow	_c.f.s. or	g.p.m. and of shut off p	ressure		
If flowing	well, describ	ed control	works			(c.) 16 in	
Water will	be used for	-ln	egate	Weight of casin	E OF VALVE, ET	The second secon	20.8
			_Casing ma	-A 0			-
Thickness (CAMBOO A	0		O+ (STEEL,	CONCRETE, WOO	DD. ETC.)	in
Diameter, I	iength and l	ocation of c	asing_40	(CASING 12" IN DIAMETER O	R LESS, GIVE II	NIDE DIAMETER	1

	N 1. (A) (1. (A)	/A * * * * * * * * * * * * * * * * * * *		CASING RECORD			ii(sh.))
				TABINO RECORD			
Diam. Casing	From Feet	To Feet	Length	Remarks	seals, grou	iling, etc.	
16 m	Senface	400st	yout				
121	38347	485	102H	N 9			
	,	-	•	. 2			
1	e d						wars.
-	Legion named		···				
Number a	nd size of	perforations	8 rous	1/1/ located 25	O feet to	340	eet from ground
		14	8 rous	1" x 14" located 25 1" x 14" 360 1" x 14" 41:		380	
		14 "	12 10	us 1"x12" 413		480	¥
Date of co	mmencemen	t of well_	Feb.	1963 Date of comple	otion of well_	may	1963
						0	4

W-5W 516 3N 34

6.4

	X	WELL LOG		
From Feet	To Feet	Type of Material	Water-bearing Formation Ans. Yes or No	Casing Perforated Ans. Yes or No
Surpe	4	Top soil		
-4	12	Sandy loans		.41
12	21	Sandy sail		
21	72	Granel . clay		
12	85	Hard yellow clay		
85	125	Sandy clay		
125	138	duty sand		
138	180	Coline sand		
180	208	Sundy Clay		N 5
208	260	Sand yellow Clay		
260	285	Sandy Clay	Zes	
285	295	Fine - coarse sund	yes	E
295	315	Sandy hard Clay	yes	
315	325	Hard blue clay		110
325	340	Sand a shale	yes	
340	360	Desty sand	120	
360	370	Caline 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 Dans Well Dulling

By Wilma Dans

Dated June 20, 1963

SHEET NO. 2

Well Owner John Johnson
Well Driller Danus Will Dulling
Well Location 27 3 7 8 16 W S.

		WELL LOG	034928	111000
From Feet	To Feet	Type of Material	Water-bearing Formation Ans. Yes or No	Casing Perforated Ans. Yes or No
370	385	Hard blue Clay		
385	390	Crawo sand I shele	yes	
390	420	Dusty sand	yes	
420	508	Blue clay sand shale	yes	
508	560	Sand I shalo	yes	,
560	575	Loase shale	yes	110.00
·				
		30 4 30 4 30 4 30 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5		
- Description		The state of the s		
	2.13	2002/25 W2540 11 3W 513 14 50 Fe. (6 F	*	
			_	
		<u>u</u>	4J.	
		- No. of the second sec		
		W-SW 5.16 IN 34		
		/00 3 +0 O// Q 12 +0 3 **		



WELL LOG AND REPORT OF THE Department of Reclamation

STATE RECLAMATION ENGINEER OF IDAHO. 034929 Locate well in section NE1/4 NW1/4 Well location 5 2 NW 1/4 Sec. 16 SW1/4 SE1/4 Size of drilled hole..... _Total depth of well 345 ff Give depth to standing water from the ground 1/2 Water temp.________ Pahr. On "Pumping Test" delivery was 910 g.p.m. or 2 c.f.s. Drawdown was 113 feet. γ Size of pump and motor used to make test $10^{\prime\prime}$ 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.) Thickness of casing | Oguage Casing material alee Diameter, length and location of casing_ CASING RECORD Diam. From To Length Remarks—seals, grouting, etc. Casing Feet Number and size of perforations. Date of commencement of well....

E NW 5.16 2N 3W

6.3

From Foet	To Feet	Type of Material	Water-bearing Formation Ans. Yes or No	Casing Perforated Ans. Yes or No
Surface	- 4	20p sail	Wat Fg	A P.
4	20	cement gravel		
20	42	Loose sand grand		
42	47	cause sand		
47	64	Sand , gracel		
44	78	Hard yellow clay		
78	95	Sandy clay		
95	107	Fine sand.		.7.
107	122	Sandy clay		
122	135	Faner coarse sand a gravel	420	
135	15a	coose sand joint clay	442	
152	100	Hard yellow clay		
160	172	gaint clay , sand.	410	€ HH . •!
172	220	yellow clay		
220	246	Sand, joint clay & shale	4001	
240	246	Hard Alue Clay		
245	272	Sand a shale.		
212	283	Hard sanstone		
		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.

ledge and belief.	Signed Danes Well Delling
,	By Wilma Danis
Dated Dec 19 1962	License No. 100

SHEET NO. 2

Well Owner George Johnson
Well Driller Dans Well Billing

		WELL LOG	034930		
From Foot	To Feet	Type of Material	Water-bearing Formation Ana, Yes or No	Casing Perforated Ana. Yes or No	
283	3/2	Hard blue clay, shale sand.	yes		
3/2	316	Hard shele.			
314	340	Hard blue shele			
340	345	Hard blue shele		1 345	
are a star					
	12				
ė	- San San	TO THE POST OF THE PROPERTY OF THE PARTY OF	W. C. Company and 10 10 10 10		
-1		114	ay	- 1110	
A-110					
		E2NW 516 2N3W			

RECEIVED

WELL LOG AND REPORT OF THE STATE RECLAMATION ENGINEER OF IDAHO

Department of Reclamation

				· CA-11 Am	1971	034924
Permit No	21)	Well	No. 21	County Congon	Locate well	
Owner	cdu	m.x	SAU	ck an		
Address	M	4 6	alde	vell	NW1/4	NE1/4
Driller	Lill	som	l.	Doly		
Address	RL.	5 9	nam	pa		7
Well locat	ion S M	<u> </u>	Sec. /2	, T. 2 N/6 R. 5 #/W	21077	SE1/4
Size of dri	lled hole	6 "	-		5 VV 1/4	JE 74
				Total depth of well 2/5		
Give depti	n to standin	g water from	n the ground.	Water tempofah	r.	
On "Pump	ing Test" o	delivery was	240 g.p.6	f. ore.f.s. Drawdown was 🖊 🗸	o feet.	
Size of pur	mp and mot	or used to m	ake test 2	of Clyinder		
	time of test.	4	hours	/minutes.		
If flowing	well, give	flow	_c.f.s. or	g.p.m. and of shut off pressure_		
		bed control y				
_		~	mesti	(TYPE AND SIZE OF VALV		
			_Casing mate		301 1001	
	_			(STEEL, CONCRETE	WOOD, ETC.)	07
			asing_6		IVE INSIDE DIAMETER	ner so
13	1-0	Celow	-			
				· · · · · · · · · · · · · · · · · · ·		- ж. жинсто
				CASING RECORD		
Diam. Casing	From Feet	To Feet	Length	Remarks—seals,	grouting, etc.	
6"	2 64.	131,60	133			
	20011	Oserou	, , ,		77	
-		-				
	-		-			
				y inc experience in		
Number o	ınd size of	perforations		locatedfee	ot to	eet from ground
	31			<u> </u>		•
			non 1	7 1961 Date of samulation of	2017	1961
Dete of co	mmenceme	ent of Well.		7,1961 Date of completion of	\	/ , 0
				SWSW 5-17 2N31	w X	usis
					1	

60 3

WELL LOG

From Feet	To Feet	Type of Material	Water-benzing Formation Ans. Yes or No	Casing Perforated
0	5	top Soil	Wat Fe	ď
5	25	close		. (
25	50	Sand & Clay layers	Yes	
50	63	Clay		1
63	80	Land & clay layers	yes	
80	98	Landy Clay		1
98	125	fond + clay layers	yes	D
125	215	Shale	yes	14
			16-1	
	-			
		9		
		-		
				-
		187		
	- ::			
		If more space is required use Sheet No. 2		

WELL DRILLER'S STATEMENT

This well was drilled under	my	supervisi	on an	d the a	bove	Information	is true	and	correct	to the	laest	of my	know
ladge and halief		E .	*1		25								

By William C. Doty
License No. 159

Dated Mar. 23, 1961.

40

STATE OF IDAHO DEPARTMENT OF WATER RESOURCES

USE TYPEWRITER OR BALLPOINT PEN

WELL DRILLER'S REPORT

W

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.

D.

~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	$\overline{}$						
1. WELL OWNER	7.	WATE	ER LEVE	ĒL			
Name Orana Michalena	1	Static	· water le	evel 45 feet below lar	nd surface.		
Name Rose Hichalson Address Nampa Id	1	Flowi	ing? 🗆	Yes No G.P.M. flo	w	_	_
Address Nama of	1	Artesi	ian closed	d-in pressure p.s.i.	i.		
	1				) Plug		
Owner's Permit No.	1	Temp	erature Descr	οF. Quality	e helow.	_	
	T.	···rel t			DOIOTT.		-
2. NATURÉ OF WORK	8.		L TEST D				
New well 🗆 Deepened 🗆 Replacement	1	🗆 Pu	qmı	☐ Bailer 🔑 Air 🗆	Other		
Abandoned (describe abandonment procedures such as	<u></u>		ge G.P.M.		Hours Pun	_	
materials, plug depths, etc. in lithologic log)	-	Discharg		Pumping Level	Hours Pur		
		N-			-		
3, PROPOSED USE							
3. PROPOSED USE							
<b>M</b> Domestic □ Irrigation □ Test □ Municipal	9.	LITH	IOLOGIC	2106	OMORE		Table 1
/ Industrial 🗀 Stock 🗆 Weste Disposal or Injection	_	De		, LOG	87656	TWP	ater
Other (specify type)			To	Material	/	-	s No
	18	1.0	10	Overhunden			F
4. METHOD DRILLED	8	10	300	Rack Lauge			1
₩ Rotary	6	30	165	Rock Lawa		X	
Rotary Air   Hydraulic   Reverse rotary   Cable   Dug   Other							1_
2 200		ļ	+			-	1.
5. WELL CONSTRUCTION	-		-			-	-
	-		+-+			-	1
Casing schedule: Steel Concrete Other							
Thickness Diameter From To							
inches inches feet feet feet feet							
inches inches feet feet		<u> </u>	1			-	-
inches inches feet feet		-	-			+	-
Was casing drive shoe used? ▲ Yes □ No		-	+++			-	-
Was a packer or seal used? ☐ Yes 💆 No		-	+-+			-	-
Perforated? ☐ Yes 💆 No	$\vdash$		1	STATE	25017421785	T	+
How perforated?  Factory  Knife  Torch				DIE	战"。[5]	AT.	
Size of perforation inches by inches				Millia	100		
Number From To gerforations feet feet				104		1	
perforations feet feet feet feet		L	$\leftarrow$	Sirving	9 1349	-	1_
perforations feet feet		-		Danasimont of	Miller Daenurce	-	-
Well screen installed?   Yes  No	-	-	+-+		Water Resource egional Office	1	
ivianuracturer's name		<b>—</b> —	+	the greath	Ribilat Onive		1
Type Model No			T				
Diameter Slot size Set from feet to feet Diameter Slot size Set from feet to feet			200	20000			
Diameter Slot size Set from feet to feet Gravel packed? □ Yes XNo □ Size of gravel	_7D	015	CIZI	(W   5   N)			_
Placed from feet to feet	1	110				-	+
Surface seal depth 50 Material used in seal: Cement grout		7				-	+
☐ Bentonite	$\vdash$	- 5	走 26	_1988		-	
Sealing procedure used: Slurry pit Temp, surface casing							1
Soverbore to seal depth	D	nartm	ent of W	ater Resources			
Method of joining casing: ☐ Threaded ➤ Welded ☐ Solvent Weld		por	Jan .	100-1100-01-01-0			
Weld □ Cemented between strata						سا	١
Describe access port	10.			-1 1		1	
	L		ork starte	ed 9/15/86 finished	1 1/18/	84	<u>-</u>
	-			-1-1-	1-6	-	_
6. LOCATION OF WELL	11.			ERTIFICATION	00		
Sketch map location must agree with written location.	1			that all minimum well constr	ruction standar	ds w	/ere
N	1			at the time the rig was remov			
Subdivision Name				1.11. 0 11.	10	- 4	
<del>    </del>	t	Firm	Name /	tolder Delling	irm No.	7	_
. w = = = = = = = = = = = = = = = = = =		Addre	200	Wwell lot D	1ata 9/22	10	4
Lot No Block No	1	Muur	33	lawell 200	mil	-	0
EUL NO STORA TO	į.	Signer	d bv (Fir	m Official)	Block	e	1
S MAPONEII	2 85	n.		and			
UE 1/2 Sec. 21, T. ZN N/S, R. BLEW.	雌	1	lic.			$\times$	
119- 11E - 212 212			(0	Operator)	<u>e</u>	_	****
1/2 1/4 Sec. 21. T. S.N. N/S, R. D.W.E/W.	( <u> </u>						

Form 238-7 6/07

# 103

Describe control device _____

# IDAHO DEPARTMENT OF WATER RESOURCES WELL DRILLER'S REPORT

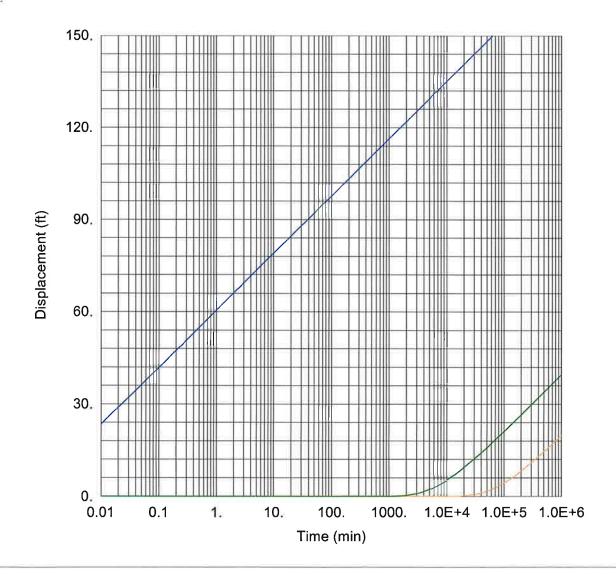
1. WELL TAG NO. D DO 180	12. STATIC WATER LEVEL and WELL TESTS:
Drilling Permit No. 9703168-876435	Depth first water encountered (ft) Static water level (ft)
Water right or injection well #	Water temp. (°F)
2. OWNER:	Describe access port G Well Cap
Name Juan Hulton	Well test: Test method:
Address 20,5 E. Ustick Ndo	Drawdown (feet) Discharge or Yest duretion Pump Bailer Air Flowing (minutes)
City Caldwell State Id Zip 83605	45 60 45 0 0
3.WELL LOCATION:	Water quality test or comments: Gnod worker
Twp. 02 North or South Rge. 03 East or West	
Sec. 21 1/4 NE 1/4 NE 1/4	13. LITHOLOGIC LOG and/or repairs or abandonment:
	Dia. (6) (8) Abandonment, water temp.
Gov't Lot County Canyon (Deg. and Decimal minutes)	10 0 5 TOP SOIL
Lat. 43 30 0 017 (Deg. and Decimal minutes)	5 34 Big gravel
Long.//6 44 ° 32 (Deg. and Decimal minutes)	34 38 Brown Clay
Address of Well Site 205 E. Ustick rd.	
(Grow at least name of road + Uniferce to Plant or Landmark): City Caldwell	6 38 42 Brown Clay
Lot Blk Sub. Name	4278 Sand
4. USE	78 81 Browny Clay
4. OSE  Discomestic ☐ Municipal ☐ Monitor ☐ Irrigation ☐ Thermal ☐ Injection	81 99 Sand
Other	99 103 Brown Clay
5. TYPE OF WORK:	103 108 Sand
New well Replacement well Modify existing well	
Abandonment Other	
6. DRILL METHOD:	
Ar Rotary Mud Rotary Cable Other	
7. SEALING PROCEDURES: Seal material From (ft) To (ft) Quantity (track ft') Placement method/procedure	RECEIVED
8 Bentonia 0 38 1,000 dry pour	THE OLIVER
B Dentibolit C 20 1,500 Gry pour	MAY 1 6 2016
A CARNON INCO	17871 1 0 2010
8. CASING/LINER: Diameter From To (A) Gauge/ Moterial Casing North Market	WATER RESOURCES
(nominal) (ft) Schedule maintain	WESTERN REGION
0 TZ 102 200 SIEE!	
10" 0 38 250 Stepl 0 0	
102	
Was drive shoe used? N Shoe Depth(s) 102	
9. PERFORATIONS/SCREENS:	
Perforations TY WW Method	
Manufactured screen DY N Type Tokiu Sou S.S.	
Method of installation Wash down	
From (ft) To (ft) Slot size Numberifit Diameter Material Gauge or Schedule	Completed Depth (Measurable): 108
(Isominal)	
103 108 204 5" 5,5.	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.
Length of Headpipe Length of Tailpipe	
Packer NY N Type 3 rib K- Packer	Company Name Catriot Well Drillings. No. 721
10.FILTER PACK:	*Principal Driller 41/4 400 Date 5/13/201
Filter Material From (ft) To (ft) Quantity (the or ft ² ) Placement method	
4	*Driller Date
	*Operator II Date
11. FLOWING ARTESIAN:	Operator I Date
Flowing Artesian? Y Artesian Pressure (PSIG)	* Signature of Principal Driller and rig operator are required.

# **Attachment B: Theis Calculation of Transmissivity for Analysis**

	Transmissivity		Notes
Low Estimate	70 ft²/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.
High Estimates	2750 ft²/day		Based on specific capacity data from Teunissen irrigation well (Well 417825) @ 700 gpm (74 ft) and aquifer thickness of 162 ft.
	2129 ft²/day		Based on specific capacity data from Teunissen commercial/stock well (Well 430692) @ 550 gpm (72 ft) and aquifer thickness of 209 ft.
	620 ft²/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 ft2/day	06	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

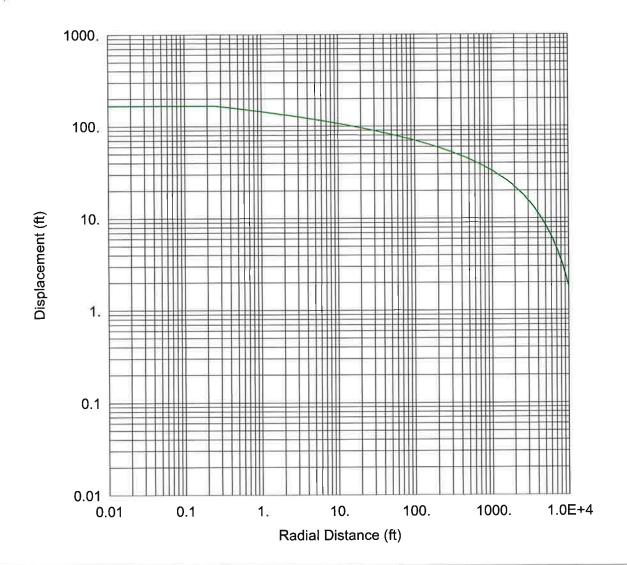
Aquifer Model: Confined

 $T = \frac{70}{\text{Kz/Kr}} = \frac{70}{0.1} \text{ ft}^2/\text{day}$ 

Solution Method: Theis

= 0.001S

= 48. ft b



#### **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

 $T = 70. \text{ ft}^2/\text{day}$ Kz/Kr = 0.1

Solution Method: Theis

= 0.001 S

= 48. ftb



# 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

a marin

Email: slarson@canyonco.org

- 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
- 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. <u>Calculation of Costs to be Assured.</u> (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,

Ohis famomoto

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
Prepaids	
Total current assets	19,148,482
Noncurrent assets:	
Capital assets:	
Capital assets (net of accumulated depreciation)	9,513,600
Total assets	28,662,082
DEFERRED OUTFLOWS OF RESOURCES	
Deferred outflow - pensions	97,892
LIABILITIES	
Current liabilities:	
Accounts payable	176,472
Incurred claims payable	273,772
Compensated absences payable	48,540
Total current liabilities	225,012
Noncurrent liabilities:	
Compensated absences payable	16,180
Landfill closure/post-closure costs	9,315,374
Net pension liability	339,245
Total noncurrent liabilities	9,670,799
	5,070,755
Total liabilities	9,895,811
DEFERRED INFLOWS OF RESOURCES	
Deferred inflow - pensions	150 202
belefied filliow - pelisions	150,302
NET POSITION	
Investment in capital assets	9,513,600
Unrestricted	9,200,261
Total net position	\$ 18,713,861

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