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Shekinah Industries Groundwater Model Development and Transfer Scenario Runs

Prepared for:

Mike Preston
420 Bitterroot Drive
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December 28, 2009

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2016 NORTH WASHINGTON, SUITE 4
TWIN FALLS, IDAHO 83301

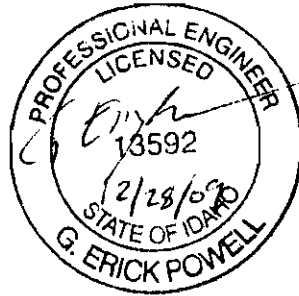
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Table of Contents

A.	Background.....	1
A.1.	Purpose	1
A.2.	Administrative Review	1
A.3.	Project Scope	3
B.	General Area Description	4
B.1.	Model Domain Characteristics	4
B.2.	Climate	4
B.3.	Land Usage	5
B.4.	Hydrogeologic Setting	5
C.	Literature Review	7
D.	Model Framework	8
D.1.	Model Code and Interface	8
D.2.	Model Domain Definition	10
D.3.	Time Domain Definition	11
D.4.	Vertical Discretization	11
D.5.	Boundary Conditions	12
D.5.1.	Specified Flux Boundary	12
D.5.2.	Specified Head Boundaries	12
D.5.3.	Head-dependent River Boundaries	12
D.5.4.	Initial Conditions	12
E.	Aquifer Characterization	13
E.1.	Well Identification and Mapping	13
E.2.	Aquifer Bottom Elevation	13
E.3.	Hydraulic Conductivity Estimation	14
E.4.	Storativity	15
E.5.	Groundwater Contour Development	15
F.	External Flux Calculation Methodology	16
F.1.	External Flux along Northeast Boundary	16
F.2.	Precipitation	17
G.	Recharge, ET, and Point Withdrawals	17
G.1.	Agricultural Recharge	17
G.2.	Evapotranspiration	18
G.3.	Point Groundwater Withdrawal	18
G.4.	Surface Water Leakage	19
H.	Modeling Calibration	20
H.1.	Model Calibration – Hydraulic Conductivity	20
H.2.	Model Calibration – Underflow	21
H.3.	Water Balance	21
H.4.	Observed vs. Computed Head	22
H.5.	Error Summary	22
I.	Model Evaluation of Shekinah Industries Transfer	23
I.1.	Transfer Scenario	24
I.2.	Results	24
I.3.	Additional Data Requested Items	26
J.	Data Deficiencies and Recommended Future Refinements	30
K.	References	33

List of Figures

1. Mountain Home Plateau	35
2. Perched Aquifer Location near Mountain Home	36
3. USGS Observation Wells near Existing POD	37
4a. Groundwater Elevations Trends of Wells Identified in Figure 3	38
4b. Groundwater Elevations Trends of Wells Identified in Figure 3	39
4c. Groundwater Elevations Trends of Wells Identified in Figure 3	40
5. USGS Observation Wells near Proposed POD	41
6a. Groundwater Elevations Trends of Wells Identified in Figure 5	42
6b. Groundwater Elevations Trends of Wells Identified in Figure 5	43
7. Newton Model Grid with Sub-areas Identified	44
8. Model Discretization Overlain on Groundwater Contours	45
9. Groundwater Contours from Spring 1980	46
10. Model Locations with Precipitation Contours	47
11. Water Balance of Model Cell	48
12. IDWR Irrigated Area Identified by Water Rights	49
13. IDWR Irrigated Area Identified by Groundwater Rights	50
14. Calibrated Hydraulic Conductivity Zones	51
15. Published USGS Groundwater Elevations vs Simulated Elevations	52
16. Whisker Plot of Observed Wells	53
17. Existing and Proposed PODs	54
18. Steady State Changes in Water Surface Elevation from Proposed Water Right Transfer No. 73811	55
19. Effect of Current Decreed Water Right on CGWA	56

List of Tables

A.	Water Balance	22
B.	Simulation Results on USGS Observation Wells	28

Appendices

- A. IDWR Well Driller Logs
- B. Hydraulic Conductivity Calculations

Shekinah Industries Groundwater Model Development and Transfer Scenario Run

Prepared by: Brockway Engineering, PLLC
G. Erick Powell, Ph.D., P.E.
Date: December 28, 2009

A. Background

A.1. Purpose

A groundwater flow model has been developed to assist in evaluation of the impact of a proposed water transfer on groundwater levels. The determination of adverse or beneficial impacts on existing water rights from a proposed transfer is required to satisfy the non-injury requirement of I.C. 42-222. The Idaho Department of Water Resources does not currently have an analysis tool to evaluate the potential impacts of a proposed water right transfer in the Mountain Home area.

A.2. Administrative Review

The development of the groundwater flow model was instigated by the request of IDWR for additional information regarding water right transfer application No. 73811. This application was originally submitted by Idaho Water Company in behalf of Shekinah Industries to IDWR on December 7, 2006. A revised transfer application was submitted to IDWR in September 2008, which narrowed the scope of the proposed transfer. On October 16, 2008, IDWR issued a letter acknowledging receipt of the revised transfer. The proposed transfer contemplates the change in point of diversion and place of use

for 5.56 cfs of groundwater for irrigation of 369 acres from T4S R6E Sections 17, 18, 19, and 20 to T1S R4E Sections 14, 23, and 24 in Elmore County. Further correspondence from IDWR dated November 5, 2008 requested additional information addressing the following items:

- (1) Demonstrate the ground water is available in the amount requested for the proposed place of use. This should included information documenting a sustainable supply for the expected duration of the project.
- (2) Demonstrate that diversion of ground water in the amount requested and under the associated priority dates will not injure other water right owners for the area, particularly in light of significant ground water level declines.
- (3) Discuss plans to monitor and report data about ground water levels for the proposed project area.
- (4) Will pumping a the proposed site cause additional ground water level declines for the Mountain Home Ground Water Management Area and/or the Cinder Cone Butte Critical Ground Water Area?
- (5) If your information indicates possible injury to other water rights and/or suggests that additional declines in water levels for the area will occur, discuss how the proposed project will mitigate those impacts.

IDWR set a deadline of February 1, 2009 for the requested information. A six (6) month extension was filed with IDWR and granted setting the deadline of August 1, 2009.

IDWR issued a preliminary order on a new permit (61-12090) in the general vicinity of

the proposed transfer on June 23, 2009. Portions of this preliminary order had direct implications on the proposed transfer and insufficient time was available to incorporate the finding of fact from IDWR; therefore another extension was requested and granted resulting in a deadline of December 31, 2009.

Reviewing the information requested by IDWR, it was determined that a numerical groundwater model was necessary to adequately address the requested additional information. Shekinah Industries agreed to have a suitable model developed for the purposes of evaluating the proposed water right transfer. Shekinah Industries retained Brockway Engineering to develop an appropriate model that will address the department's concerns/questions.

A.3. Project Scope

The Shekinah Industries groundwater model was developed by Brockway Engineering to include the aquifer and the Snake River in the vicinity of Mountain Home and to the North. The model boundaries include the majority of the Cinder Cone Butte Critical Ground Water Area as defined by IDWR. A recognized groundwater model code (MODFLOW) was selected and the required hydrologic data was researched, collected and analyzed to provide input to the model for calibration and impact scenario simulation. The data management program GMS was utilized as the interface for the model and all data is maintained in ArcGIS format. Both MODFLOW and GMS are widely used by private consultants and governmental agencies to analyze groundwater

flow problems. Input data were based on published information available. The calibrated model was used to determine the effects of water right transfer no. 73811.

B. General Area Description

B.1. Model Domain Characteristics

The groundwater model includes an area over 964 square miles in size, mostly associated with the Mountain Home plateau area. The Mountain Home plateau is bounded by the Snake River on the southwest and mountains on the northeast in portions of Ada and Elmore counties, Idaho (Figure 1). The plateau is broad and flat; deviations of the topography are attributed to cinder cones and remnants of shield volcanoes (Young, 1977). The elevation on the Mountain Home plateau is typically greater than 3,000 ft; areas near the Snake River are lower and below the plateau. There are no perennial streams on the Mountain Home plateau (Young, 1977).

B.2. Climate

The climate of the study area ranges from arid to semi-arid across the plateau, with dry sun filled summers and cool winters. The average annual precipitation is 9.98 inches year with an annual snowfall of 10.7 inches (NWS, 2009). Precipitation occurs primarily during the months of November through March. The average summer temperature is 70 degrees Fahrenheit and the average winter temperature is 35 degrees Fahrenheit (NWS, 2009). The area is normally dry with an average summer humidity of 23% (Mountain Home, 2009). The average wind speed in Mountain Home is 10 mph.

B.3. Land Usage

Land use on the Mountain Home plateau is predominately undeveloped arid land. Agricultural land and municipalities do exist on the plateau. The municipalities are the city of Mountain Home and the Mountain Home United States Air Force Base. Within the 964 square miles, approximately 51 square miles are under irrigation or about 5% of the model area. Source water for irrigation on the Mountain Home plateau comes from the Snake River, Boise River, streams draining to the plateau, and groundwater.

B.4. Hydrogeologic Setting

Norton et al. (1982) describe two aquifers beneath the Mountain Home study area. The first aquifer is a shallow, perched aquifer. The second aquifer is a deeper, regional aquifer. Figure 2 outlines the extent of the perched water table under the Mountain Home study area (Young, 1977). The perched water table is located within the Quaternary Alluvium, a composite of clay, silt, sand, and gravel layers. IDWR well lithology logs identified the perched water depth from 12 to 13 feet below the ground surface. Other well logs reported the static water level at around 100 feet (83 ft., 95 ft., 126 ft., and 130 ft.), these static water levels are also likely indicative of the perched water table, and may indicate the vertical movement of groundwater at these locations. The rest of the lithology logs measured the static water level at 320 ft., 375 ft., 395 ft. and 430 ft. below the ground surface. This last group of lithology logs is likely measuring the regional aquifer. The geology of the regional aquifer is primarily basalt layers of the Bruneau formation of the Idaho Group.

The regional aquifer water sources likely include downward percolation from precipitation and irrigation, groundwater underflow, loss from intermittent stream flow, and downward percolation from the perched system. Water is lost from the regional aquifer through spring flow, underflow to the Snake River, and water extraction through pumping. Groundwater pumping is estimated as the largest source of groundwater loss from the regional aquifer, although groundwater movement to the Snake River has not been published. Newton (1991) and Norton et al. (1982) describe significant declines of groundwater levels near Mountain Home, primarily due to well water extraction. The static water level of a monitored well within the city boundaries of Mountain Home is a good example. Immediately following construction of this well in 1963 the static water level measured 395 ft BGS. Over the last 46 years, the static water level has dropped more than 70 feet to 466 ft. BGS. Specifically for this well, no increase in ground water extraction, above existing approved water rights, has occurred.

Steady aquifer declines have been recorded in the Mountain Home area for about 35 years. IDWR designated the area around Cinder Cone Butte (northwest of the city of Mountain Home) as a critical ground water area in 1981. Mountain Home is included in a larger groundwater management area that was designated in 1982, but not in a critical groundwater area. Well hydrographs, associated with the critical groundwater area and the management area, are presented in Figures 3 through 6. While the groundwater elevations near Mountain Home have continued to decline, the groundwater elevations near the proposed point of diversion have shown more stability or slight increases in elevation.

The main direction of groundwater flow of the regional aquifer is from northeast to southwest, ultimately towards the Snake River and the springs near the Snake River.

C. Literature Review

Previous investigators have made efforts to characterize both the geology and groundwater characteristics of the Mountain Home plateau and Western Snake Plain Aquifer, beginning with Russell (1902) and ending with a preliminary order from IDWR in 2009. Some pertinent information from the literature review is discussed.

Young (1977) presents the earliest comprehensive study of groundwater resources in the Mountain Home plateau area. Young indicates that the aquifer elevations in some locations have declined more than 20 ft in the previous 9 years. He further recommends exploration of deep geologic formations that may contain water under high head and better management of ground water resources.

Newton (1991) presents a geohydrologic analysis and numerical groundwater model creation for the Western Snake River Plain Aquifer. Newton summarized that the hydraulic properties of the aquifer are the least-known variables. Newton also states that underflow and refined knowledge of the subsurface hydrogeology are poorly understood and require additional research.

Given the recent number of applications submitted to IDWR for new water right permits in this Mountain Home Plateau, IDWR (2009) released a preliminary order granting a permit approval with conditions to Nevid, Inc. Acting IDWR Director Gary Spackman summarized the data presented by the consultants for Nevid Inc. and by IDWR and concludes that within a "capture zone" there are 811 ac-ft/year of water coming into the system over a 3-mile span. Therefore, at a minimum the unit groundwater discharge in this vicinity is 270 ac-ft/year/mile; however, aquifer parameters were evaluated using published and collected data and this value appears to be an order of magnitude low, as will be discussed later.

Brockway Engineering (2009) has performed small scale investigations for private clients pertaining to aquifer properties, well development potential, and interference between wells. These studies involved testing of new or existing wells. These tests and resulting data were used to provide guidance for model inputs and calibrations.

D. Model Framework

D.1. Model Code and Interface

The Shekinah Industries groundwater model was developed using MODFLOW, a three-dimensional, cell centered, finite-difference, saturated flow numeric model developed by the United State Geological Survey (McDonald and Harbaugh, 1988). MODFLOW incorporates a modular structure, which allows for the model to be adapted for specific applications (Harbaugh et al., 2000). The original MODFLOW code was published in 1984 with subsequent versions released with the inclusion of additional modular

structures. MODFLOW-2000 distinguishes the version of MODFLOW used in comparison to the original MODFLOW code. References to MODFLOW throughout this document refer to MODFLOW-2000 with acknowledgements that MODFLOW-2000 was based on the original published MODFLOW model. MODFLOW-2000 is currently the most widely used numerical model for groundwater flow problems (Fetter, 2001).

MODFLOW simulates steady and non-steady state flow conditions under different aquifer conditions. External sources of flow into the groundwater model can include surface recharge, well injection, river or stream flow to aquifer, and specific flux or head at a boundary location. External sinks of flow from the groundwater model can include evapotranspiration, well extraction, river or stream flow from aquifer, aquifer flow to drains and specific flux or head at boundary locations (Harbaugh et al., 2000).

The Groundwater Modeling System (GMS) was used as the graphical user interface for MODFLOW, thus allowing for the use of existing Geographical Information System (GIS) data sets (EMRL, 2005). GMS was originally developed by the U.S. Department of Defense in partnership with the U.S. Department of Energy, the U.S. Environmental Protection Agency, and U.S. Nuclear Regulatory Commission, and 20 academic partners (ERDC, 2009). GMS is a comprehensive tool that provides a visual model interface for model construction, site characterization, calibration, and post-processing (EMRL, 2005). The Shekinah Industries Groundwater Model was developed using the conceptual model approach, which utilizes GIS data sets to delineate model attributes

and then converts and maps the data layers to the corresponding MODFLOW cells for model execution.

D.2. Model Domain Definition

Newton (1991) developed a numerical groundwater model of the Western Snake River Plain as part of the U.S. Geological Survey's Snake River Plain RASA (Regional Aquifer-System Analysis) that began in October 1979. To maintain uniform code for RASA model development, Newton (1991) developed the Western Snake River Plain Aquifer model with the USGS model code that predated the original MODFLOW model. Newton divided the 1991 model into 11 subareas on the basis of geologic and hydrologic characteristics of the aquifer system as shown in Figure 7 (Newton, 1991). Subareas 4, 8, 9, and 10 contained the majority of the area to be investigated in the present model development effort; therefore these subarea boundaries were used as guides for the current model domain.

The Snake River was used as the southwest boundary. The northeast boundary was taken to be the approximate interface of the model domain with the mountains as delineated by Newton (1991). The northwest and southeast boundaries were the approximate subarea boundary defined by Newton (1991).

MODFLOW cell size was defined to be 1320 ft by 1320 ft (¼ mile by ¼ mile) throughout the model domain (Figure 8). The MODFLOW grid was rotated at a 45 degree angle; model columns were approximately aligned with dominate aquifer flow direction from

northeast to southwest. The MODFLOW grid has 152 columns and 116 rows with a total of 15,710 active cells.

D.3. Time Domain Definitions

Three options for collecting and imputing model data and evaluating model results were discussed. Those options were steady state, quasi-transient, and fully transient. Two options, fully transient and quasi-transient, involved input data that are not available, as discussed by Newton (1991). The final option was a steady-state model with all inputs being constant and equal to annual average conditions. Given the data deficiencies for the region, both transient models were deemed inappropriate and the model was developed as a steady state model.

D.4. Vertical Discretization (Layers)

Newton's (1991) model was developed with 3 layers, with the final layer extending 11,500 ft below ground surface (bgs). The deepest well in the region is 4,403 ft bgs that was drilled near the Mountain Home Air Force Base (Lewis and Stone, 1986). Most wells in the vicinity are less than 1,000 ft bgs (IDWR well driller logs) and the aquifer characteristics are uncertain below that. As little data were known regarding the subsurface geology, it was determined that a single layer model was justified with the single layer similar to Newton's layer 1, which was modeled to a depth of 500 feet below the water table. Newton's layer 1 consisted of a mixture of sedimentary and volcanic rocks (Newton, 1991).

D.5. Boundary Conditions

D.5.1. Specified Flux Boundaries

Almost no data were available on the amount of underflow into the model domain (Newton, 1991). The underflow was estimated by applying Darcy's law to available aquifer parameters, including average hydraulic conductivity and published groundwater gradients.

D.5.2. Specified Head Boundaries

Specified head boundaries were defined on the southeast and northwest model boundaries. Newton (1991) published 1980 groundwater elevations were used as the basis for the specific head values. After model calibration, the specified head boundaries were converted to specified flow boundaries with the flow values obtained from the calibrated model at the specified head boundary.

D.5.3. Head-dependent River Boundary

The Snake River flows through the model domain and was used as the southwestern boundary. Snake River elevations were taken from Newton (1991) model data. Almost all groundwater discharge from the study area is to the Snake River (Newton, 1991).

D.5.4. Initial Conditions

Groundwater elevations from 1980 were used as the initial conditions for the groundwater contours. A steady state model evaluation will result in a model simulation of steady state groundwater elevation.

E. Aquifer Characterization

E.1. Well Identification and Mapping

IDWR maintains a database of well driller records for wells constructed in the State of Idaho. A search of IDWR's database was performed and wells near the proposed place of use and within the model domain were obtained (Appendix A). Numerous wells within the database were incomplete or were not available. A spreadsheet was compiled listing the location, well use, well depth, depth to water, pumping information (if provided), completion date, driller, and pertinent well construction details.

Well locations on the well driller reports were reported by physical address, if one existed, and by the public land survey system to the nearest quarter-quarter. Wells were plotted in ArcMAP based on the address or PLSS description or both. Field verification of wells was not done and some wells may not be located precisely.

E.2. Aquifer Bottom Elevation

Numerous well drilling reports indicated layers of alluvium material below rock layers throughout the model domain. The experience of Brockway Engineering through the Mountain Home region supports the geology of volcanic rocks underlain by alluvium material such as sand and clay. The well drilling records do not provide an adequate description of the bedrock depth through the model domain. Newton's (1991) model was developed with three layers, the topmost layer being 500 feet below the water table elevation (about 1000 ft bgs). Available data suggests that there are water-bearing

zones below this layer 1; however sufficient data was not available. The present model followed the Newton (1991) model approach and extended the aquifer depth to 500 feet below the water table elevation. This approach, while not fully supported with extensive data, provides a conservative estimate of the aquifer productivity as the aquifer extends at least 500 feet below the water table elevation.

E.3. Hydraulic Conductivity Estimations

The hydraulic conductivity (K) of the aquifer material is of prime importance in development of a groundwater flow model. Young (1977) published an estimate of aquifer hydraulic properties in terms of transmissivity rather than hydraulic conductivity. The transmissivity (T) can be defined as the product of the hydraulic conductivity (K) and the saturated aquifer depth (b) as shown in Equation 1.

$$T = Kb \qquad \text{Equation 1}$$

The transmissivity estimate made by Young (1977) was 50,000 ft²/day (Young, 1977) with no estimate of the aquifer depth. Newton (1991) reported results from the groundwater model in terms of hydraulic conductivity with values ranging from 4 ft/day to 43 ft/day.

Brockway Engineering has reviewed available well pumping data from IDWR and from pump tests performed in behalf of other clients in the area. Estimates for the hydraulic conductivity were made by using the Theis (1963) and Thompson et al. (1963) methods and averaging the results. The average K value was 12 ft/day using 14 different sets of well pumping data with a range of 1 ft/day to 53 ft/day (Appendix B).

E.4. Storativity

Newton (1991) used a uniform specific yield of 0.10 throughout model layer 1, but stated that inadequate information was available. Well testing conducted by Brockway Engineering for various projects has indicated that a storativity of 0.15 is generally appropriate for fitting theoretical curves to observed data under unconfined conditions. This value is within the range typically expected for unconfined aquifers, and no other data is available that would indicate a different value. Therefore, 0.15 was used for the entire domain.

E.5. Groundwater Contour Development

Water table contours from 1980 were published by Newton (1991) and were used as possible calibration targets. They were also used as the starting head elevations for the ground water model (Figure 9).

Groundwater contours were also developed by using the USGS observation wells and IDWR well driller records throughout the region. Static water elevations from the well reports were used to generate groundwater elevations, but differences of water table elevations existed between different years of reporting. Static water elevations were interpolated to the model grid by using the kriging interpolation method. Several outliers were identified as causing unreasonable skew of the results and were excluded from the interpolation. The interpolation results were smoothed by visual refinement.

Because of the unreliable nature of the generated water contours, it was determined to use the published ground water contours from Newton (1991) as the primary calibration data set.

F. External Flux Calculation Methodology

F.1. External Flux along Northeastern Boundary

The external flux at the northeast boundary was calculated using Darcy's Law. The northeastern boundary was determined to have a length over 34 miles (34.31 miles). The aquifer thickness was assumed to be 500 feet. The average hydraulic conductivity value as discussed previously was 12 ft/day. The average water table gradient obtained from the 1980 groundwater contours published by Newton (1991) was 0.0085 ft/ft.

Darcy's law can be expressed by the following equation:

$$Q = KiA \quad \text{Equation 2}$$

Where: K = Hydraulic Conductivity (ft/day)
 i = Hydraulic Gradient (ft/ft)
 A = Cross Sectional Area (ft²)
 Q = Flow Rate (ft³/day)

Evaluating equation 2 yielded a flow rate of 9,224,090 ft³/day or 50.9 ft³/day/ft.

Converting the rate calculated to an annual volume results in 77,290 ac-ft/year through the entire model domain or 2,250 ac-ft/year/mile. This value was compared to the SPF Water Engineering (SPF, 2009) and IDWR (2009) estimated values of water available for appropriation. SPF estimated a high and low value of underflow over a 3-mile capture width. The SPF high value was estimated at 8,400 ac-ft/year or 2,800 ac-ft/year/mile and the low value was estimated at 2,400 ac-ft/year or 800 ac-ft/year/mile.

IDWR (2009) estimated the low underflow value at 821 ac-ft/year over the same 3-mile capture width or an underflow estimate of about 270 ac-ft/year/mile.

The underflow estimate calculated using Darcy's Law above is the same order of magnitude as estimated by SPF (1,600 ac-ft/year/mile). The estimated low underflow value proposed by IDWR is substantially low when compared to the published aquifer properties.

F.2. Precipitation

Precipitation data used for the model were obtained from the Idaho Department of Water Resources GIS data set for average annual precipitation (1971-2000). Figure 10 shows the average annual precipitation values for this region.

G. Recharge, ET, and Point Withdrawals

Model development includes defining water sources and sinks throughout the model domain. Figure 11 illustrates the sources and sinks per model cell.

G.1. Agricultural Recharge

Irrigation lands within the model domain were identified by IDWR water right shape files and aerial photography (Figure 12). It is acknowledged that the irrigation practices and water quantities on each parcel are not constant. However, for purposes of this analysis, uniform agricultural crops and irrigation efficiencies were assumed. The agricultural crop was assumed to be alfalfa. The annual irrigation requirement

accounting for precipitation (P_{eff}) for alfalfa was obtained (Allen and Robison, 2007).

Irrigation efficiency for agricultural application was assumed to be 75% for the purpose of calculating total water application.

Different water sources are used throughout the model domain to provide irrigation.

The calculation of irrigation recharge assumes no particular source of irrigation water, but is inclusive of surface and groundwater sources.

G.2. Evapotranspiration

ET was defined throughout the model domain; it was assumed that sufficient water is available to meet the actual ET requirements. Average annual actual ET values for Alfalfa and sagebrush were obtained from Allen and Robison (2007) for the Mountain Home vicinity. The ET value of alfalfa was applied to areas with agricultural land use, while the ET value for Sagebrush was applied to rangeland without applicable irrigation.

G.3. Point Groundwater Withdrawal

Groundwater provides the agricultural community with a reliable irrigation water source. However, the Mountain Home Irrigation District does provide surface water to some areas within the model domain. According to the District (2009) about 30,000 ac-ft of surface water is delivered throughout the Mountain Home Plateau area to approximately 22,000 acres; less than 50% of the irrigated areas (approximately 10,400 ac) that receive district surface water are within the model domain

Irrigated areas were analyzed based on the source listed on the water right to determine those areas with a groundwater irrigation source. Exact locations of irrigation wells were not known; therefore, groundwater extractions were estimated for MODFLOW by the precipitation deficit amount divided by an assumed irrigation efficiency of 75%, and this value was applied to the area of irrigated land according to the water right (Figure 13).

Annual withdrawals for the City of Mountain Home and the Mountain Home United States Air Force Base were obtained from the water system managers. The average withdrawal was modeled in MODFLOW as area extractions over the footprint of the city or base.

Domestic wells providing potable water to houses outside of the city or base boundaries were not included in the model. Nearly all water diverted from groundwater for in-house potable use is returned to the aquifer via individual septic systems. Approximately 10% or less is consumed, and the total in-house consumptive use within the model domain relative to the magnitude of groundwater underflow is not substantial.

G.4. Surface Water Leakage

Natural surface waters within the model domain are ephemeral. The intermittent characteristics of the natural surface water streams do not provide a continuous water source to the aquifer and generally do not extend a considerable distance from the mountains into the model domain. The natural surface water sources were considered

negligible over time and contributions to the aquifer by surface water seepages could be effectively modeled by precipitation and underflow.

Mountain Home Irrigation District canals provide surface water to areas near Mountain Home. Seepage does occur from the distribution canals, adding water to the aquifer during the irrigation season. No published data on the distribution system were available. Characterizing the recharge associated with the Mountain Home Irrigation District would provide additional recharge to the aquifer that was not modeled.

H. Modeling Calibration

Newton (1991) published groundwater contours for 1980 for the Mountain Home region. Published groundwater contours representing current conditions for this region and it is likely that water table elevations have declined since 1980, at least throughout some portions of the domain. As discussed previously, monitoring wells in the region were used to generate water table contours based on the most recent data, but these wells did not cover the entire model domain and this effort was not successful in developing a contour map that appeared reasonable. With this uncertainty and lack of data, it was determined that Newton's (1991) published groundwater contours were the most defensible data set to be used for calibration.

H.1. Model Calibration – Hydraulic Conductivity

The hydraulic conductivity through the model was originally fixed at a uniform 12 ft/day, as described previously. Changes to the hydraulic conductivity were made in zones with

efforts made to calibrate to the 1980 groundwater contours (Newton, 1991). The model domain was dividing into hydraulic conductivity zones; efforts were made to maintain the hydraulic conductivity within the range of observed hydraulic conductivity values from the data (range from 1 ft/day to 53 ft/day). The final map of hydraulic conductivity zones can be seen in Figure 14.

H.2. Model Calibration – Underflow

As the hydraulic conductivity values were changed in the immediate area near the northeast underflow boundary, the underflow was adjusted to reflect the changes in the hydraulic conductivity. Therefore, the northeast underflow into the model domain was adjusted based on the changes made to the hydraulic conductivity values as described in Section H.1. The hydraulic conductivity and underflow near the proposed point of diversion were 25 ft/day and 2,250 acft/year/mile.

H.3. Water Balance

Following calibration, the steady state water balance was evaluated to compare the sources and sinks of groundwater throughout the model domain.

Table 1. Water balance of calibrated steady state Shekinah Industries Groundwater model.

	IN (ft ³ /day)	OUT (ft ³ /day)	TOTAL (ft ³ /day)
Northeast Underflow	9,165,000	0	9,165,000
Constant Head	5,142,000	-12,102,000	-6,960,000
Snake River	73,000	-20,489,000	-20,416,000
Transfer Well	0	-176,000	-176,000
ET – Sagebrush	0	-69,060,000	-69,060,000
Irrigation	21,395,000	0	21,395,000
Precipitation	83,500,000	0	83,500,000
Ground Water Extraction	0	-16,880,000	-16,880,000
Municipal Extraction	0	-568,000	-568,000
Total	119,275,000	-119,275,000	0

H.4. Observed vs. Computed Head

Figure 15 illustrates the calibrated model results by plotting the observed groundwater elevations (Newton, 1991) versus simulated groundwater elevations.

H.5. Error Summary

The error summary for the groundwater model was calculated by the mean error of the model results with the Newton (1991) groundwater contours from 1980. The mean error was 11.7 ft, with a root mean squared error of 43.4 ft. Newton (1991) did not publish an error summary of the USGS model. However, estimates of the error summary of the Newton (1991) simulated groundwater elevations are more than twice (RMS error of approximately 110 ft) the values resulting from this model. The approximate RMS error for Newton (1991) was calculated by overlaying the observation points used for the Shekinah model and comparing them with the simulated steady state groundwater

contours generated and published by Newton (1991). This brief check indicates that the Shekinah Industries groundwater model has less error within the Shekinah Industries groundwater model boundaries than the published Newton (1991) groundwater model.

Evaluation of the proposed transfer is performed by subtracting the simulated transfer scenario groundwater elevations from the calibrated model groundwater elevations. Errors within the model are minimized from the difference between the calibrated model results and the transfer scenario model results. Actual elevation results from simulated scenarios are not as critical from a when the model differences are evaluated.

Figure 16 contains the observation points from the 1980 groundwater contours to estimate the error summary of the Shekinah Industries model. Each observation point contains a whisker plot that shows the difference for each observation point when the simulated groundwater contours were compared to the 1980 ground water contours.

Substantial evidence is available, as presented in Figures 4 and 6, which illustrates that the groundwater elevations have changed since 1980, in some cases those changes were significant. However, no current published groundwater contours were available for the region.

I. Model Evaluation of Shekinah Industries Transfer

Shekinah Industries has submitted a transfer application to IDWR to move 369 acres of irrigated area from south of the City of Mountain Home to the northwest, over the Cinder

Cone Butte Critical Groundwater Area. The existing and proposed points of diversion are shown in Figure 17. The proposed point of diversion was modeled with a single extraction point, although the transfer proposes numerous PODs (Figure 17); a single POD was used for simplicity in modeling.

IDWR requested additional information to fully evaluate the proposed transfer. The model developed and described within this report provides IDWR with the additional information to evaluate the impact of the proposed transfer. With the given available data, the developed model should provide adequate results to evaluate the impact of the proposed transfer.

1.1. Transfer Scenario

The transfer scenario was modeled by moving the allocated water right volume from the current place of use to the proposed place of use. The impact from the proposed transfer was then shown by subtracting the transfer scenario head results from the head results from the calibrated model runs.

1.2. Results

The groundwater model was evaluated with the proposed transfer. The calibrated model results were compared with the results from the transfer scenario to quantify the impacts of the proposed transfer.

Figure 18 indicates the changes in the groundwater elevations from the calibrated model to the proposed transfer. These results show a positive effect to the groundwater elevations in the vicinity of Mountain Home. Moving the proposed water right from south of Mountain Home will partially mitigate the groundwater declines that have been monitored in this area over the last several decades.

Groundwater elevations in the vicinity of the proposed point of diversion will be negatively affected by the transfer, as shown on Figure 18. Groundwater elevations were shown to decrease within the Cinder Cone Butte Critical Groundwater Area. Considering that the proposed transfer involves valid water rights, these water rights currently have impacts on the groundwater management area and the critical groundwater area. Impacts caused by pumping the authorized water rights are shown in Figure 19, which represents the model head results without the current water right extraction minus the model head results with the water right extraction at its current point of diversion.

The groundwater elevations near the northwest portion of the Cinder Cone Butte Critical Groundwater Area have been experiencing a slight increase in elevation over the last few years, while the areas near the southeastern portion of the critical groundwater area have seen steady declines. Moving the proposed water right from south of Mountain Home to the north of the critical groundwater area may help stabilize water levels within an area which is experiencing more severe declines, while causing declines within the critical groundwater area.

I.3. Additional Data Requested Items

The following items were specifically requested by IDWR as stated in Section A.1.

- Demonstrate the ground water is available in the amount requested for the proposed place of use.

The minimum available water for this area was determined by IDWR (2009). This value appears to be conservative based on the independent evaluation described herein and by consultants for Nevid. The present modeling effort provides additional evidence that underflow from the mountains is not limited to a narrow band of available water as discussed in IDWR (2009). This is illustrated by the groundwater declines shown beyond the 2-mile radius outlined by IDWR (2009) in the Nevid permit approval.

According to Darcy's Law calculations, the underflow is approximately 2,250 acft/year/mile. The model underflow boundary is 34.3 miles, resulting in 77,175 acft/year of underflow. The proposed transfer requests that 1475 acft/year of water be moved within the model boundary. The aquifer currently supplies the annual volume, which represents 1.9% of the underflow. Historical evidence and model simulation of steady state responses shows that the requested transfer application can be supplied from the aquifer.

- Demonstrate that diversion of ground water in the amount requested and under the associated priority dates will not injure other water right owners for the area.

The model results in a maximum aquifer decline from the proposed transfer of over 11 feet at the proposed point of diversion. The aquifer drawdown decreases moving away from the point of diversion. The decline of the groundwater elevations from the proposed transfer includes 10 ft of decline at 1800 ft from the proposed well, 5 ft of decline at 1.6 miles from the proposed well, and 2 ft of decline at 3.4 miles from the proposed well. As illustrated from the USGS observation wells hydrographs in Figure 6, the groundwater elevations have fluctuated historically throughout this area, sometimes rising more than 20 ft over the period of record. Table 2 outlines the USGS observation wells identified in Figures 3 and 5. The simulation results from the proposed transfer are identified along with the percentage change on most recent groundwater elevation. It is our opinion that the groundwater declines resulting from the proposed transfer will not adversely impact the ability of the aquifer to provide water for this transfer or any existing water rights.

Table 2: USGS observation well summary and simulation results on USGS wells
resulting from the proposed transfer.

USGS Well	Period of Record	Record GW Depths Low and High (ft BGS) (Year)	Seasonal Change Example (ft) (year)	Most Recent GW Depth (ft BGS)	Simulation Results of Proposed Transfer (ft)	Percentage change in GW Depth from Transfer
01N04E-28CAC	1980 – 2008	407.7 (1980) 386.4 (2007)	17 (1980)	392	-2.2	-0.57%
01S04E-03ADB1	1976 – 2002	457.2 (1981) 452.2 (1988)	2.8 (1990)	453.6	-4.6	-1.02%
01S04E-10DAD1	1960 – 2009	342.4 (1974) 336.9 (2009)	0.85 (1973)	336.9	-8.2	-2.43%
01S04E-30AAC1	1967 – 2009	488.0 (1967) 480.6 (2000)	1.4 (1989)	481.2	-3.7	-0.77%
02S05E-03BAB1	1975 – 2008	327.5 (1981) 268.2 (2004)	40 (1981)	271.5	-2.4	-0.90%
02S04E-09DDD2	1960 – 1993	438.3 (1992) 418.7 (1977)	9.0 (1992)	436.2	-2.8	-0.64%
02S04E-14CDD1	1981 – 2008	446.6 (2008) 405.8 (1981)	9.4 (2004)	446.6	-2.5	-0.55%
02S04E-24DBB1	1981 – 2008	450.1 (2008) 388.9 (1983)	45 (1981)	450.1	-2.0	-0.45%
02S04E-26BDB1	1960 – 2009	316.2 (2009) 307.0 (1977)	2.5 (1981)	316.2	-1.2	-0.37%
02S05E-36BBB1	1960 – 2009	290.6 (2008) 281.0 (1977)	2.0 (2008)	288.9	-0.87	-0.30%
03S05E-06ACC1	1981 – 2008	369.4 (2008) 277.7 (1985)	15 (2000)	369.4	-1.1	-0.30%
03S05E-07BDD1	1976 – 2009	350.6 (2008) 241.4 (1976)	11 (2006)	344.7	-0.81	-0.24%
03S07E-08DBB1	1976 – 2003	97.2 (2001) 63.6 (2001)	24 (2001)	73	-0.03	-0.04%
03S06E-09DDD1	1976 – 2002	185.5 (2002) 125.7 (1976)	48 (2001)	185.5	-0.06	-0.03%
03S06E-13BCA1	1976 – 2009	60.9 (1981) 19.1 (2006)	15 (1979)	26.1	-0.01	-0.04%
03S06E-35BCC1	1967 – 2009	466.4 (2008) 385.0 (1967)	10 (1972)	456.6	0.22	0.05%
04S05E-25BBC1	1967 – 2009	482.3 (1998) 359.1 (1967)	63 (1998)	427.2	1.01	0.24%

- Discuss plans to monitor and report data about ground water levels for the proposed project area.

An approved plan will be developed to monitor and report groundwater elevations on a quarterly basis. The monitoring wells will consist of existing wells in the nearby vicinity.

Any changes in water levels observed in the monitoring program cannot be attributed

solely to Shekinah Industries depletions. Shekinah Industries cannot accept liabilities for all changes in groundwater elevations.

- Will pumping at the proposed site cause additional ground water level declines for the Mountain Home Ground Water Management Area and/or the Cinder Cone Butte Critical Ground Water Area?

The proposed transfer will have a positive effect in the Mountain Home groundwater management area near the city of Mountain Home. The proposed transfer will also have a negative impact on the Cinder Cone Butte Critical Groundwater Area. These impacts are shown in Figure 18 and in Table 2.

- If your information indicates possible injury to other water rights and/or suggests that additional declines in water levels for the area will occur, discuss how the proposed project will mitigate those impacts.

The proposed transfer will have a positive effect on the Mountain Home Groundwater Management Area near Mountain Home as previously discussed (Figure 18). Since the existing water right already has an impact on the groundwater management area and critical ground water area (Figure 19), we are relocating that impact to portions of the critical ground water area that have seen stable or increasing groundwater levels (Figure 6) and reducing the demand in the Mountain Home region where the groundwater elevations have been steadily declining (Figure 4). Reducing the declines in areas of severe groundwater elevation declines (Mountain Home Groundwater Management Area) will serve as mitigation for areas in both the groundwater management area and

critical groundwater area that have not experienced as severe groundwater elevation declines.

J. Data Deficiencies and Recommended Future Refinements

The best available data were utilized as the basis for the present groundwater modeling study and it is believed that a reasonable model has resulted. This model could serve as the starting point for an eventual larger model extending throughout the Western Snake Plain Aquifer. However, significant data deficiencies remain and it is recommended that a data collection effort be immediately instigated by the State of Idaho to improve accuracy of the model inputs and provide a better basis for model calibration.

Groundwater Elevations: Current data on groundwater elevations were obtained from observation wells within the model domain. The observations wells did not extend to cover the model domain, and as a result the Newton (1991) water surface elevations were used as the calibration target. Mass measurements of groundwater elevations throughout the model domain would provide a calibration target, especially for a transient model development.

Hydrogeologic Features: An accurate determination of the aquifer bottom elevation and cross section is difficult as no wells extend to the bedrock of the aquifer. Newton (1991) modeled this area to a depth of more than 7,000 ft below sea level. This deficiency is especially problematic for calculations of underflow and calibration to water

surface targets. It is recommended that a network of observation wells be drilled to bedrock to remedy this deficiency and use of geophysical methods should be considered. Identification of faults or other groundwater barriers should be evaluated to determine the influence they have on groundwater movement.

Hydraulic Conductivity: Collecting hydraulic conductivity data throughout the model domain would provide a more complete study of the range of hydraulic conductivities, including any spatial distribution that could be used in model calibration.

Aquifer Underflow: A sensitivity analysis was performed and the most sensitive input to the model was the aquifer underflow, which was assigned by IDWR (2009) based on a limited model evaluation. Detailed analysis of the underflow values would provide better quantification of the available water and closely associated hydraulic conductivity values.

Snake River Discharge: At present, USGS gages are located at regular intervals along the Snake River. Additional measurements are needed to quantify the reach gain magnitude and seasonal variability in order to provide calibration targets between the stations.

Surface Water Distribution Canals: The Mountain Home Irrigation District supplies water through a series of distribution canals through the Mountain Home plateau. These canals leak and contribute water to the aquifer and were not included in the

model. Analysis of the water conveyance efficiency of the canals would provide a more accurate modeling approach.

Land Use Characterization: Identification and use of land with irrigation, including crop type and irrigation practices throughout the model domain could provide detailed inputs on the effective use of irrigation water.

Groundwater Pumping records: Location and use of groundwater wells would provide the point sinks for the aquifer model. Locations of wells were not known with great precision and were modeled as area sinks in the model. This refinement is not expected to make a significant different to model outputs.

Transient Model Data: The model described herein was developed as a steady-state model with constant inputs. Development of a transient model would provide a more accurate view of the impact of specific water right transfers, land use changes, and seasonal variability.

K. References

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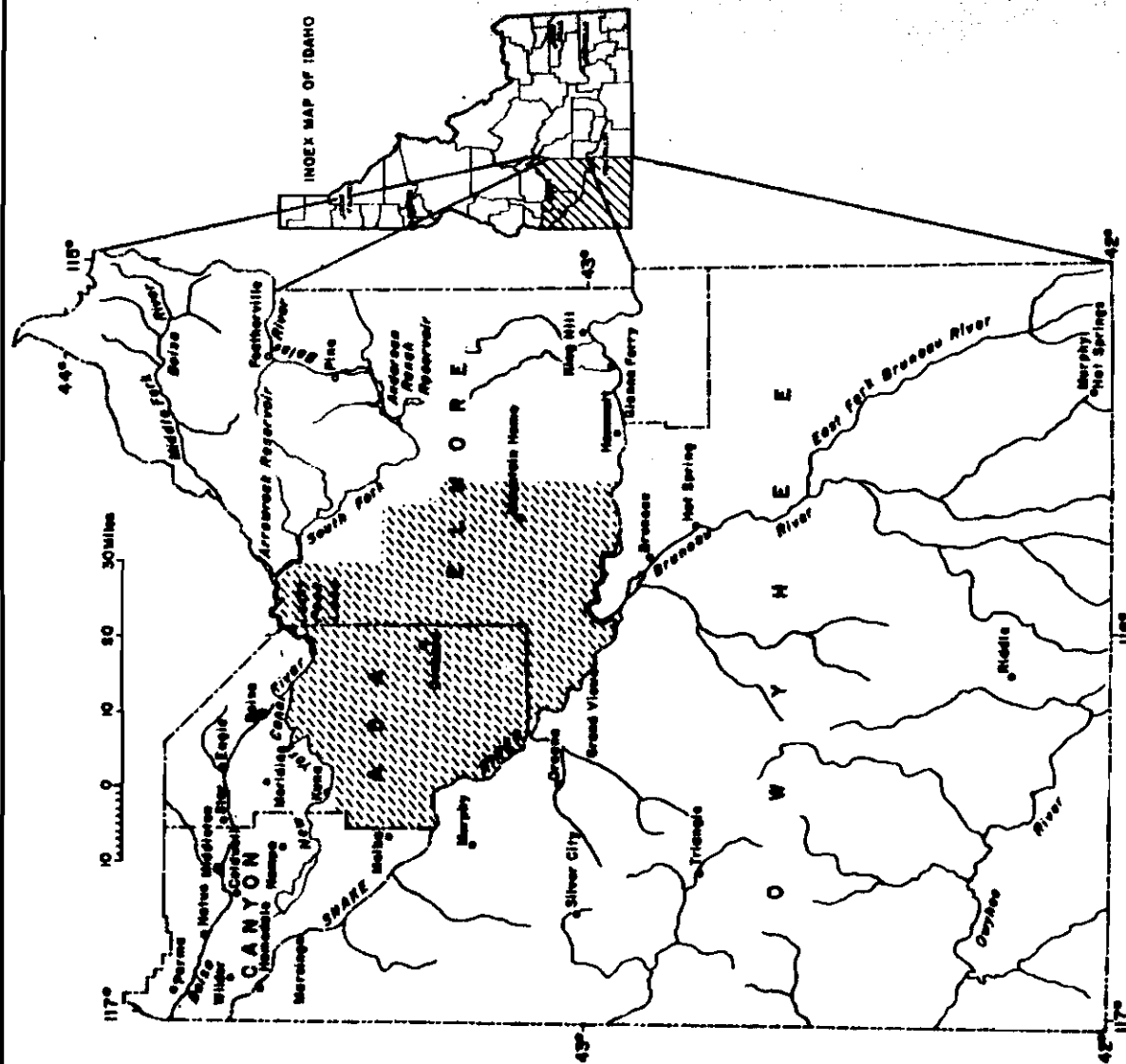


**FIGURE 1: MOUNTAIN HOME PLATEAU
REPRODUCED FROM YOUNG (1977)**
SHEKINAH INDUSTRIES GROUND WATER MODEL

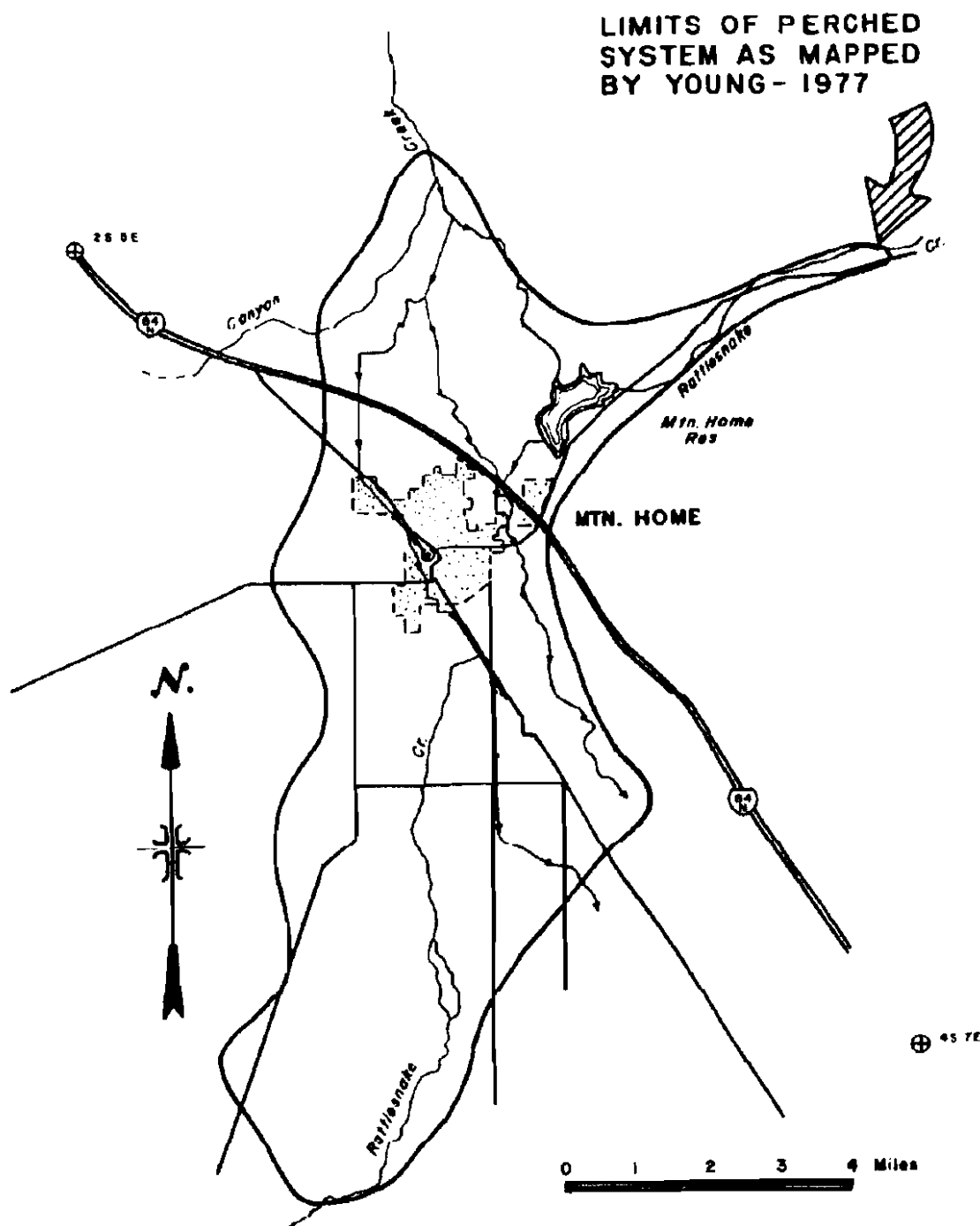


FIGURE 2: PERCHED AQUIFER LOCATION NEAR MOUNTAIN HOME

REPRODUCED FROM YOUNG (1977)

SHEKINAH INDUSTRIES GROUND WATER MODEL

2

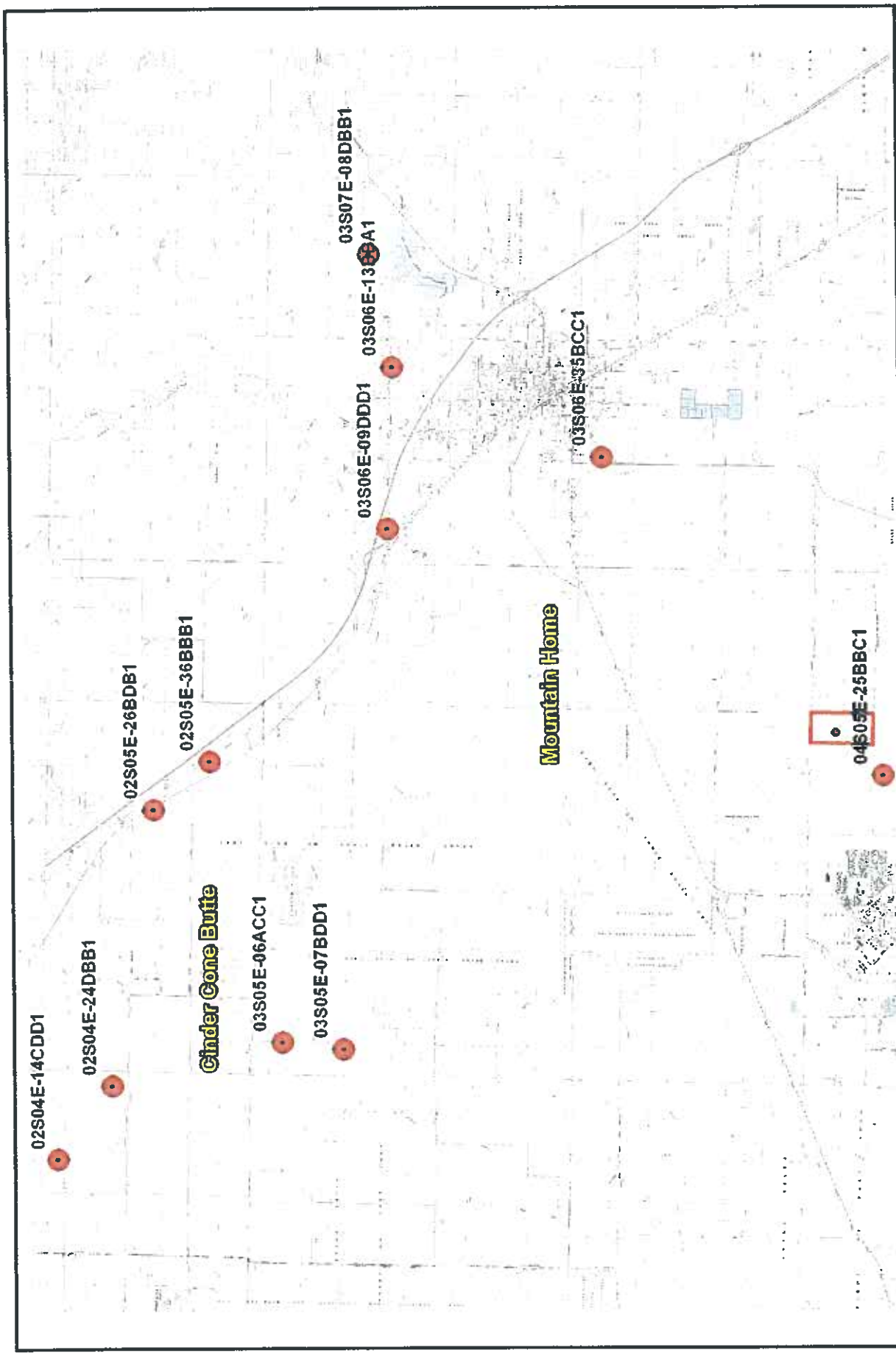


FIGURE 3: USGS OBSERVATION WELLS NEAR EXISTING POD
USGS 7.5 MINUTE QUAD SHEET WITH CGWA AND GWMA
 SHEKINAH INDUSTRIES GROUND WATER MODEL

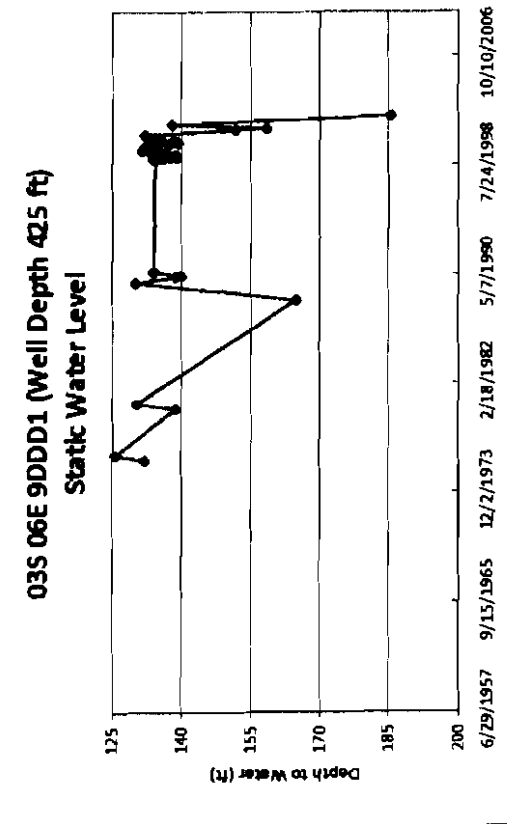
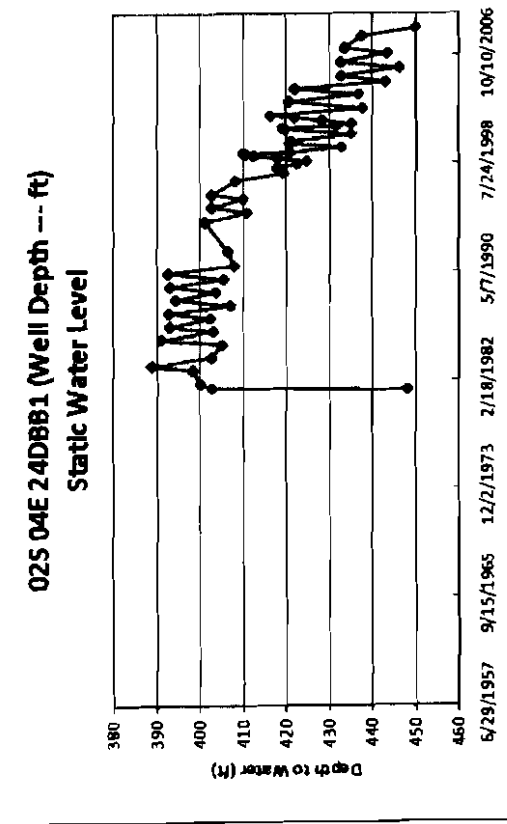
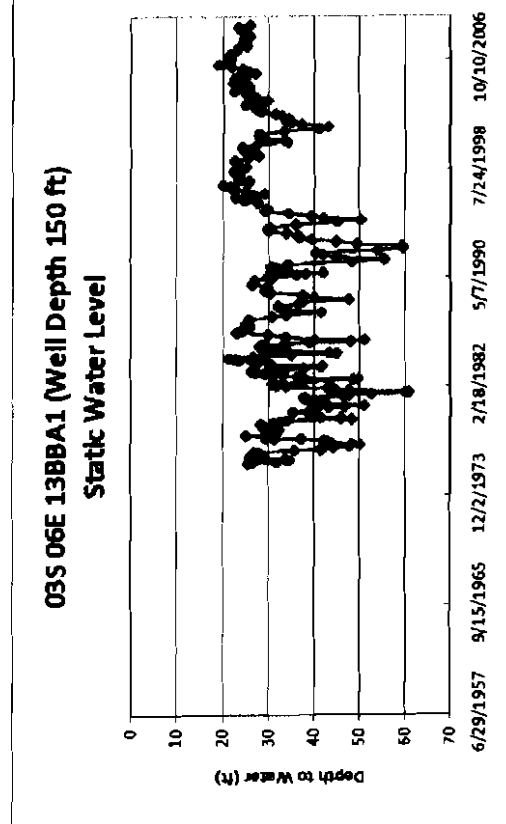
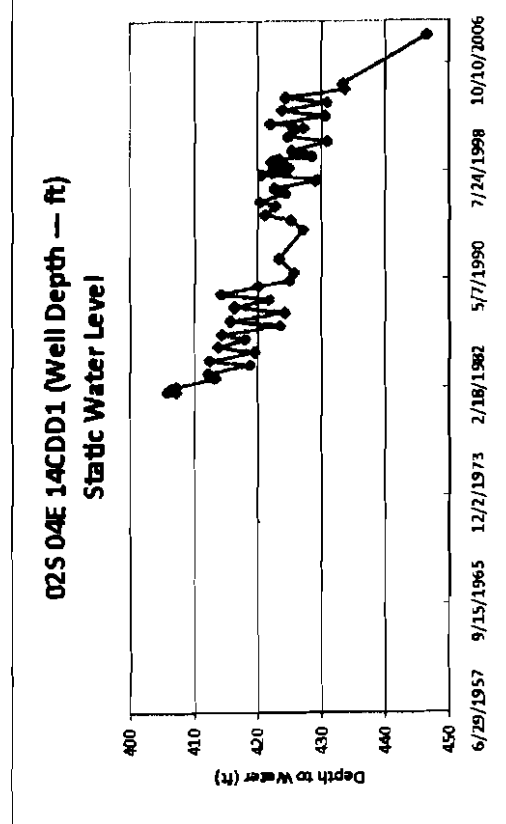


FIGURE 4a: GROUND WATER ELEVATION TRENDS OF WELLS IDENTIFIED IN FIGURE 3
USGS OBSERVATION WELL DATA
 SHEKINAH INDUSTRIES GROUND WATER MODEL

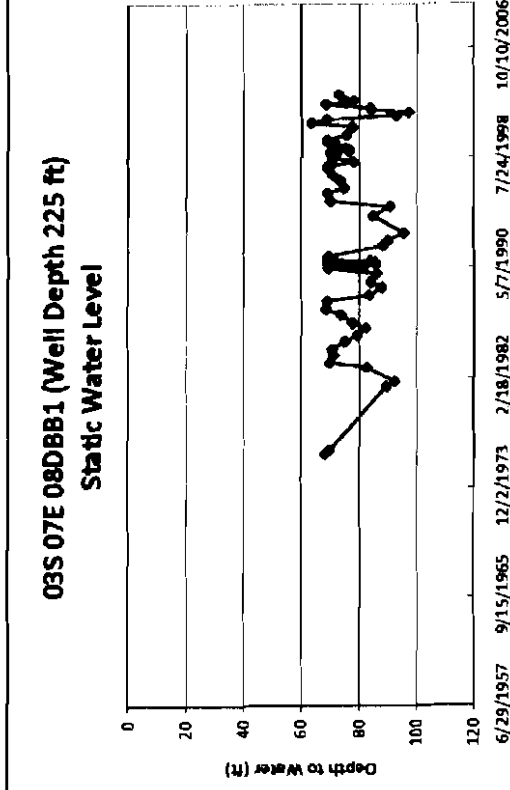
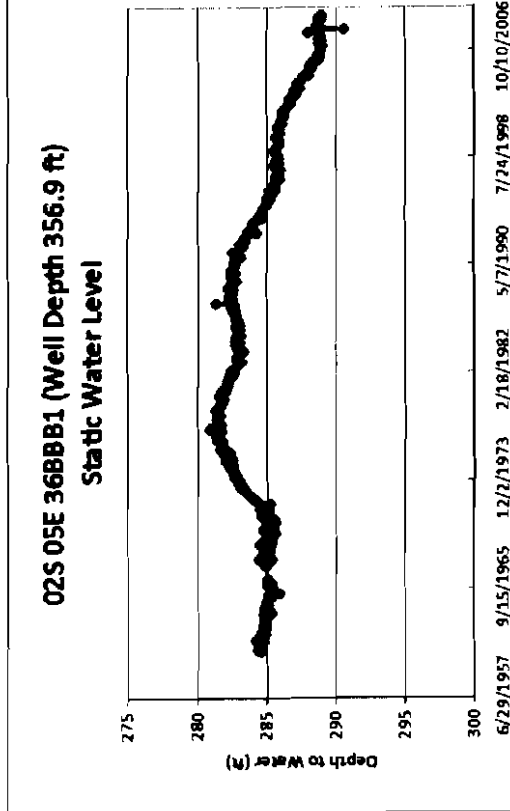
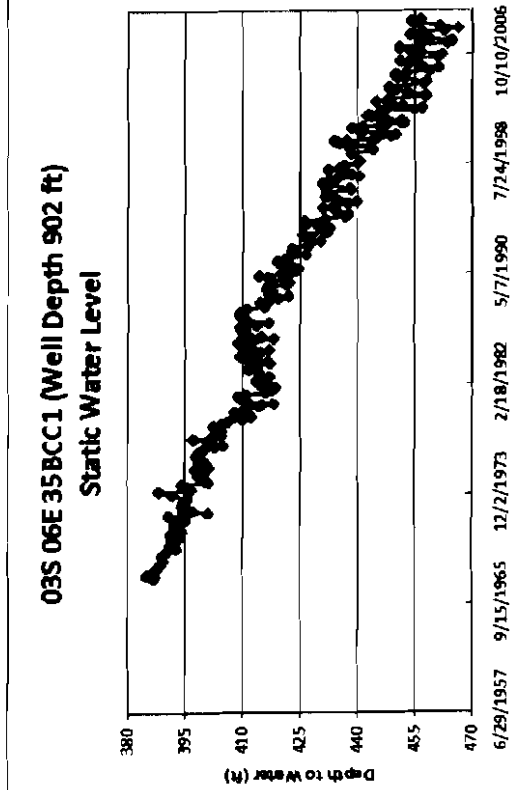
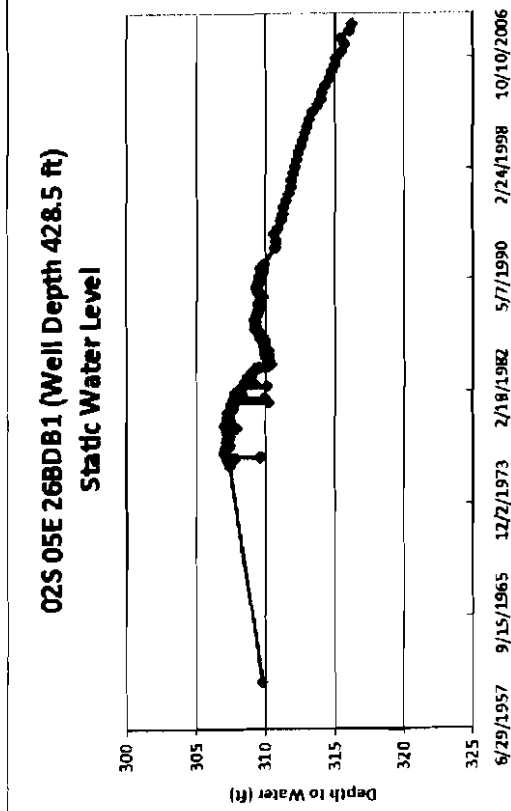


FIGURE 4b: GROUND WATER ELEVATION TRENDS OF WELLS IDENTIFIED IN FIGURE 3
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SHEKINAH INDUSTRIES GROUND WATER MODEL

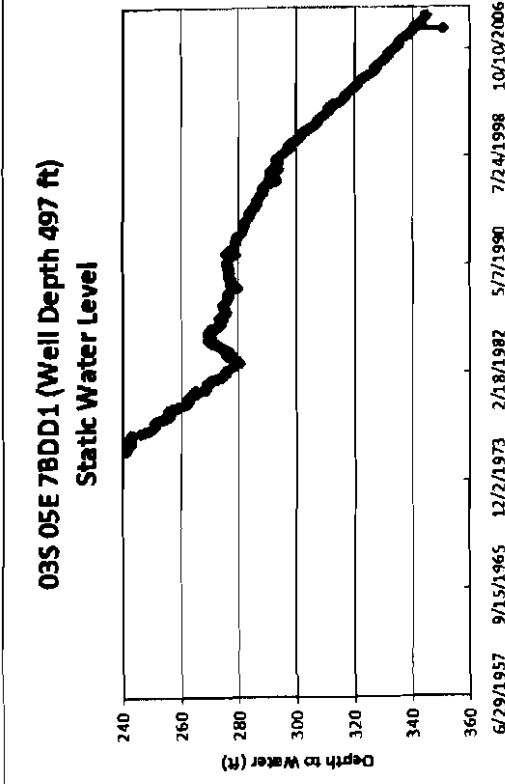
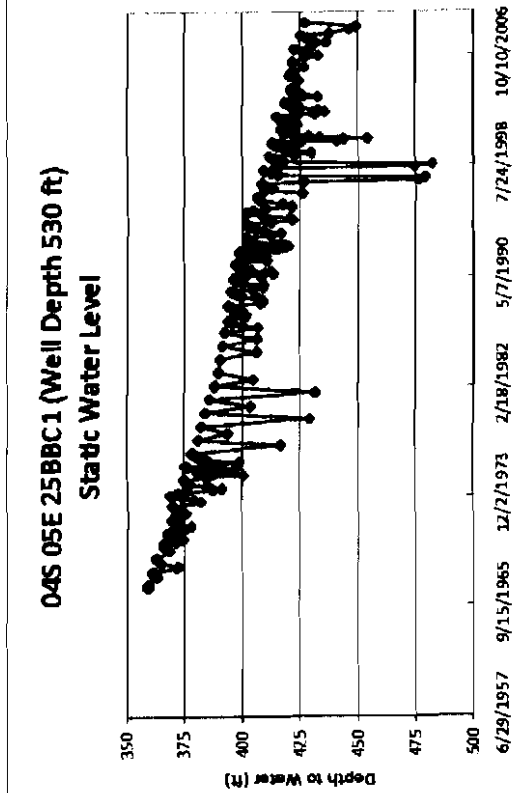
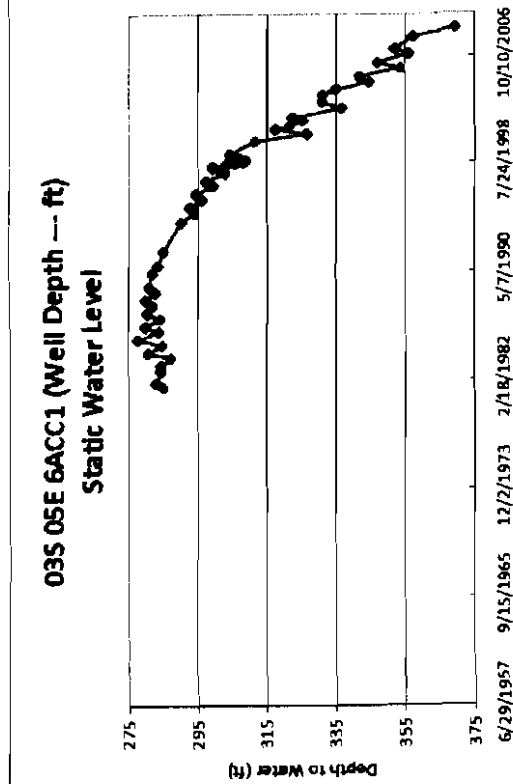


FIGURE 4c: GROUND WATER ELEVATION TRENDS OF WELLS IDENTIFIED IN FIGURE 3
USGS OBSERVATION WELL DATA
SHEKINAH INDUSTRIES GROUND WATER MODEL

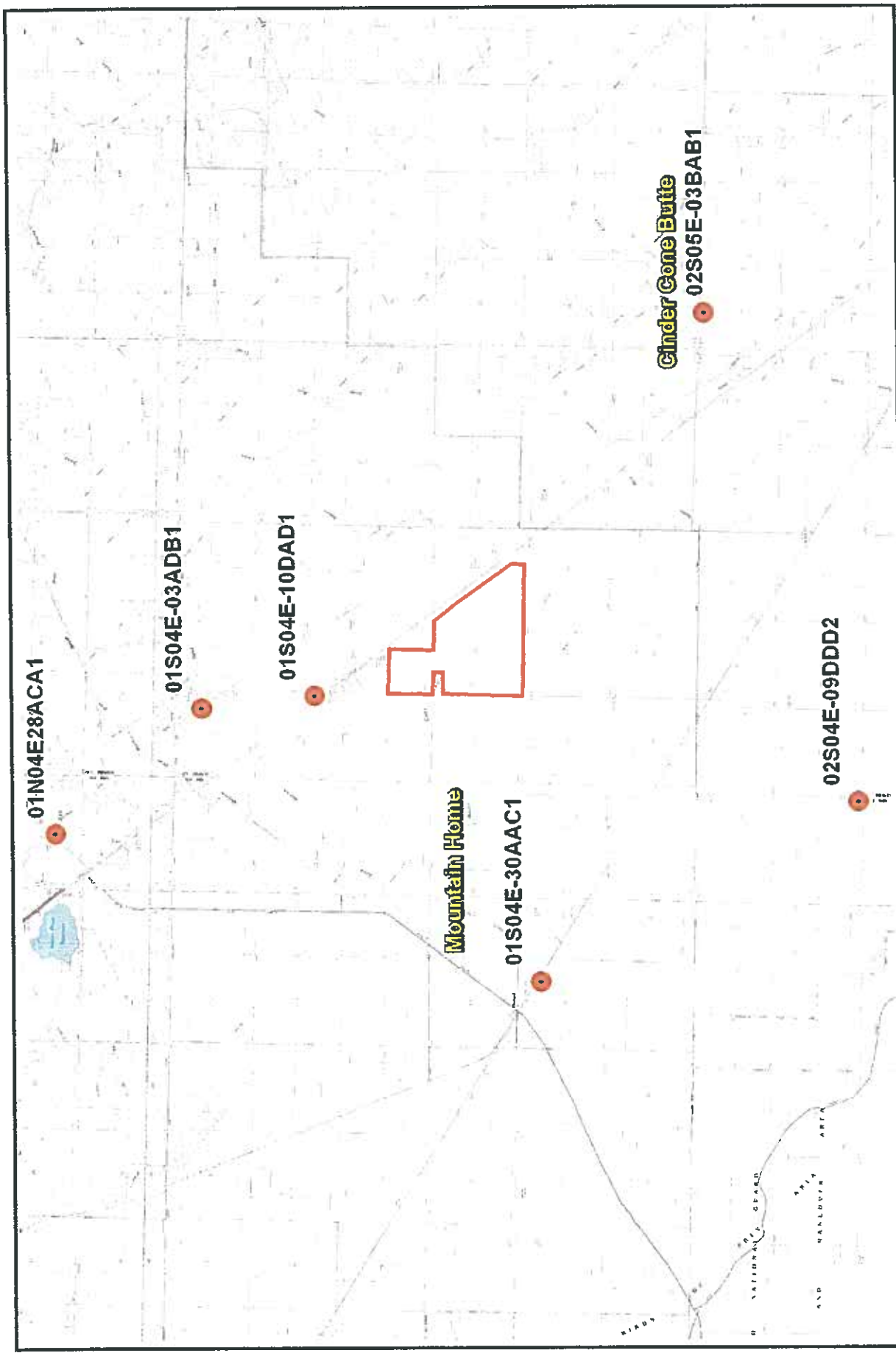
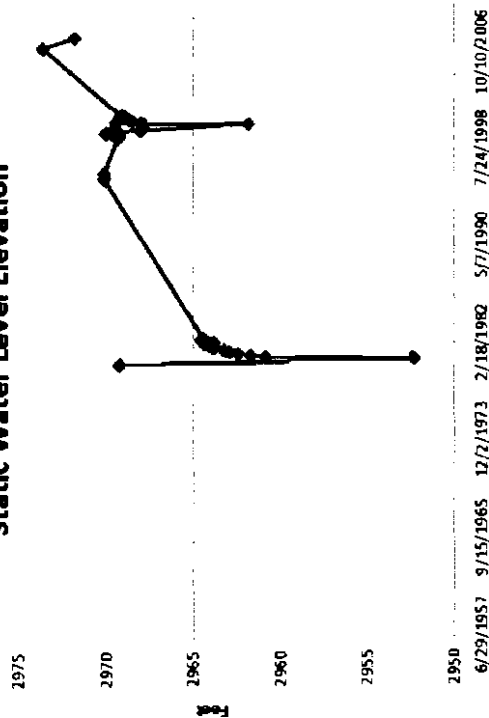


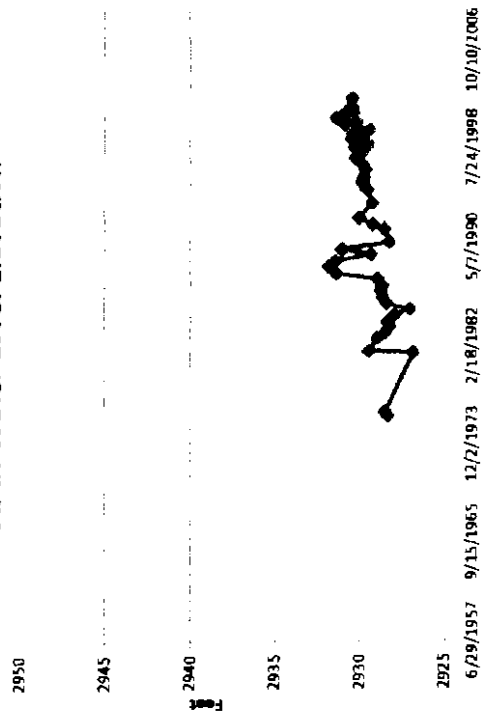
FIGURE 5: USGS OBSERVATION WELL NEAR PROPOSED POD
USGS 7.5 MINUTE QUAD WITH CGWA AND GWMA
 SHEKINAH INDUSTRIES GROUND WATER MODEL

LEGEND
 PROPOSED POU
 USGS OBS WELLS
 CGWA
 GWMA

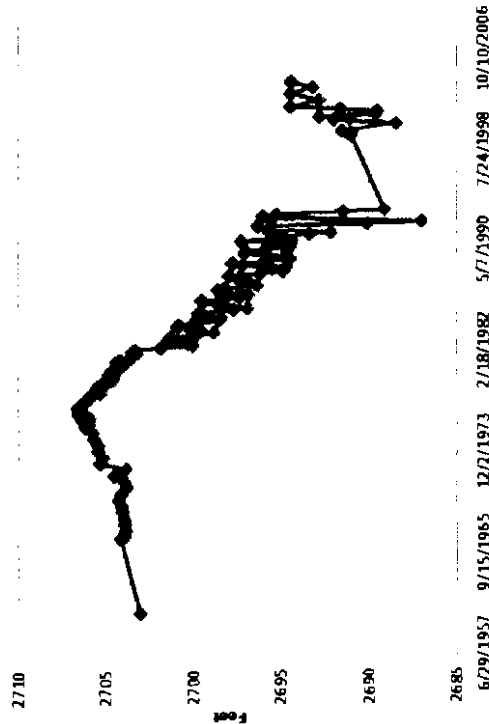
**01N 04E 28CAC1 (Well Depth 763 ft)
Static Water Level Elevation**



**01S 04E 03ADB1 (Well Depth 530 ft)
Static Water Level Elevation**



**02S 04E 09DDD2 (Well Depth 600 ft)
Static Water Level Elevation**



**01S 04E 10DAD1 (Well Depth 525 ft)
Static Water Level Elevation**

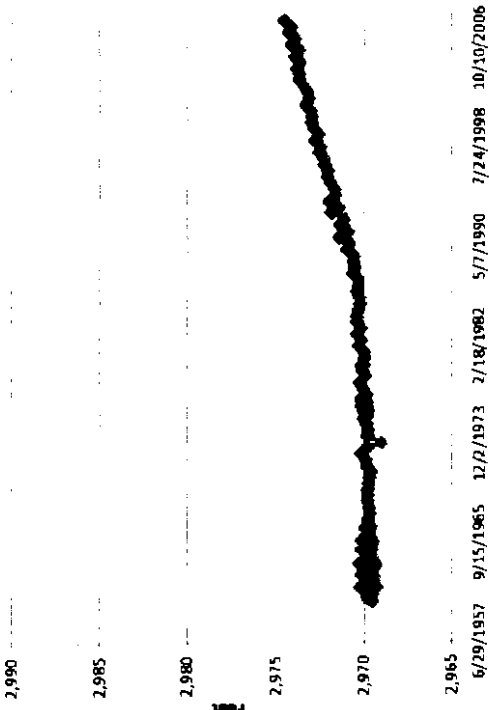
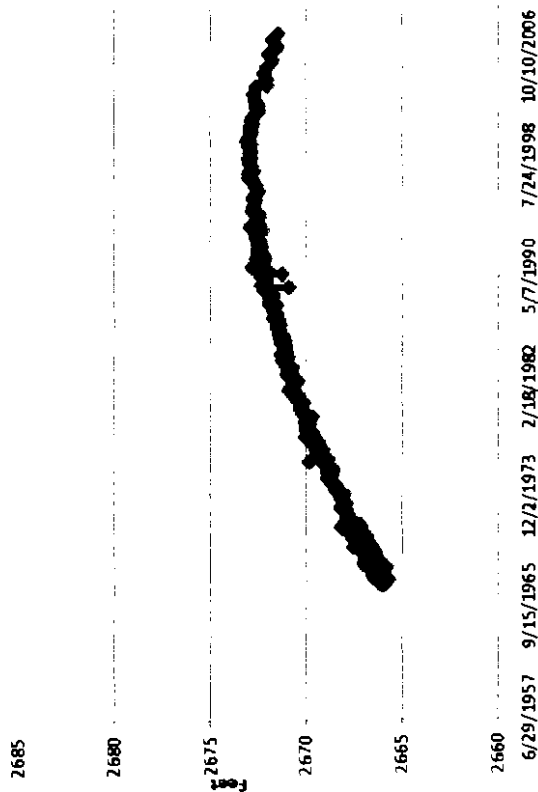


FIGURE 6a: GROUND WATER ELEVATION TRENDS OF WELLS IDENTIFIED IN FIGURE 5
USGS OBSERVATION WELL DATA
SHEKINAH INDUSTRIES GROUND WATER MODEL

01S 04E 30AAC1 (Well Depth 750 ft)
Static Water Level Elevation



02S 05E 3BAB1 (Well Depth --- ft)
Static Water Level

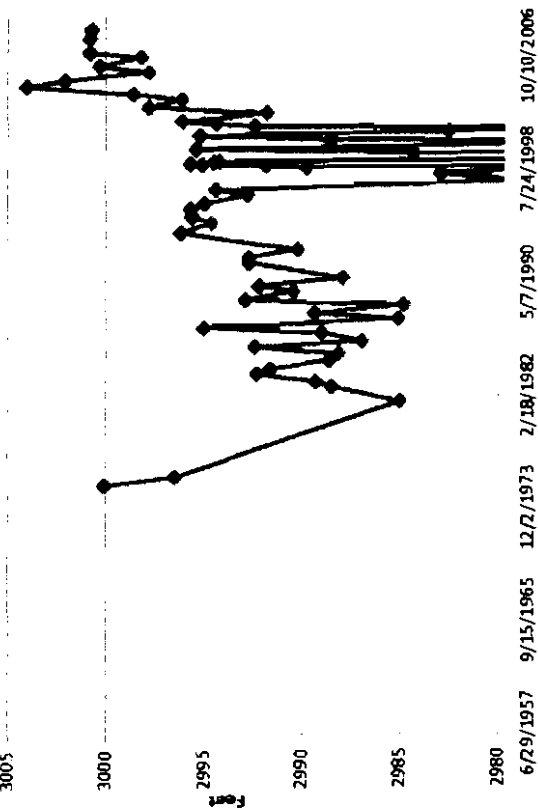


FIGURE 6b: GROUND WATER ELEVATION TRENDS OF WELLS IDENTIFIED IN FIGURE 5
USGS OBSERVATION WELL DATA
 SHEKINAH INDUSTRIES GROUND WATER MODEL



BROCKWAY ENGINEERING, PLLC
GEP - DEC 28, 2009



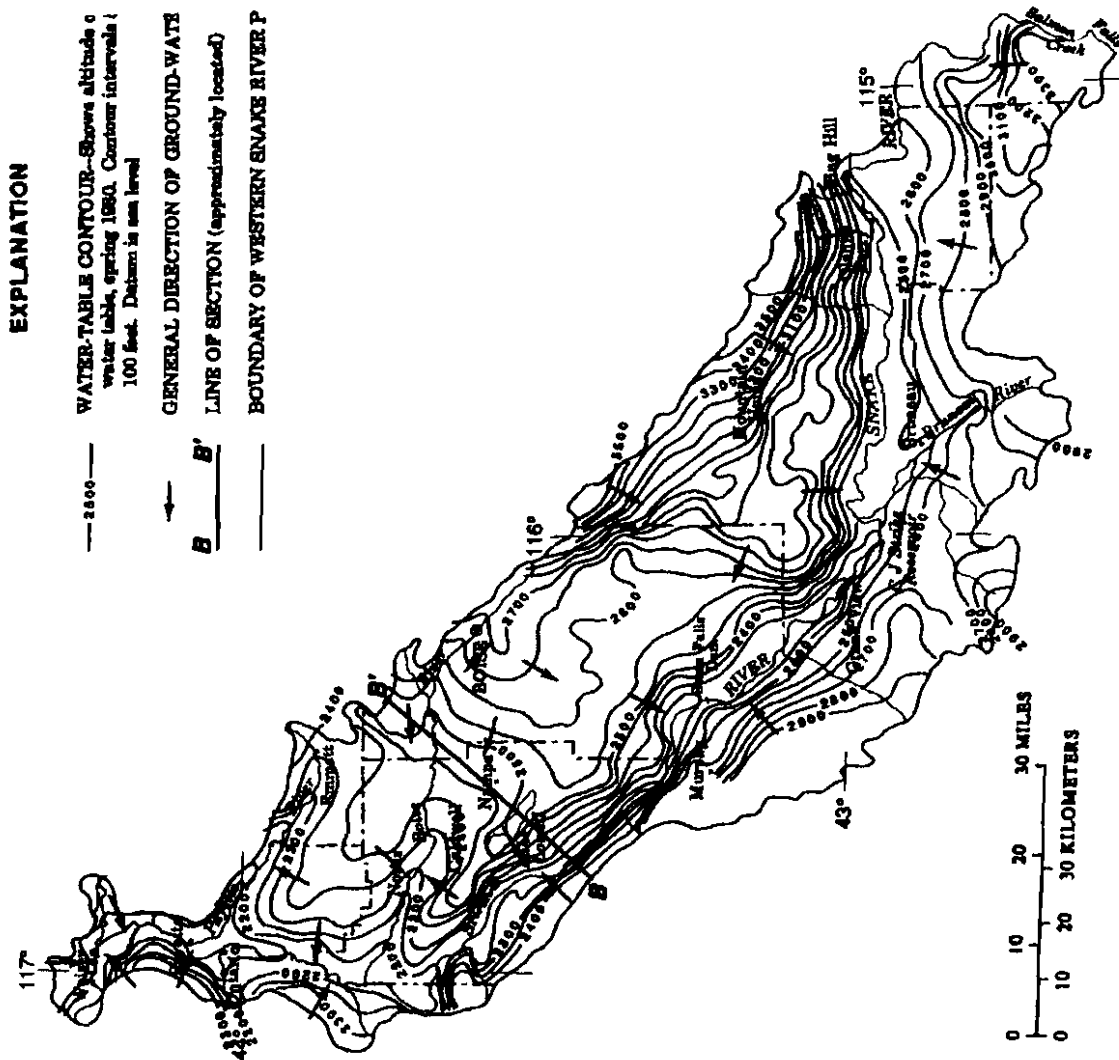


FIGURE 9: GROUNDWATER CONTOURS FROM SPRING 1980
 REPRODUCED FROM NEWTON (1991)
 SHEKINAH INDUSTRIES GROUND WATER MODEL

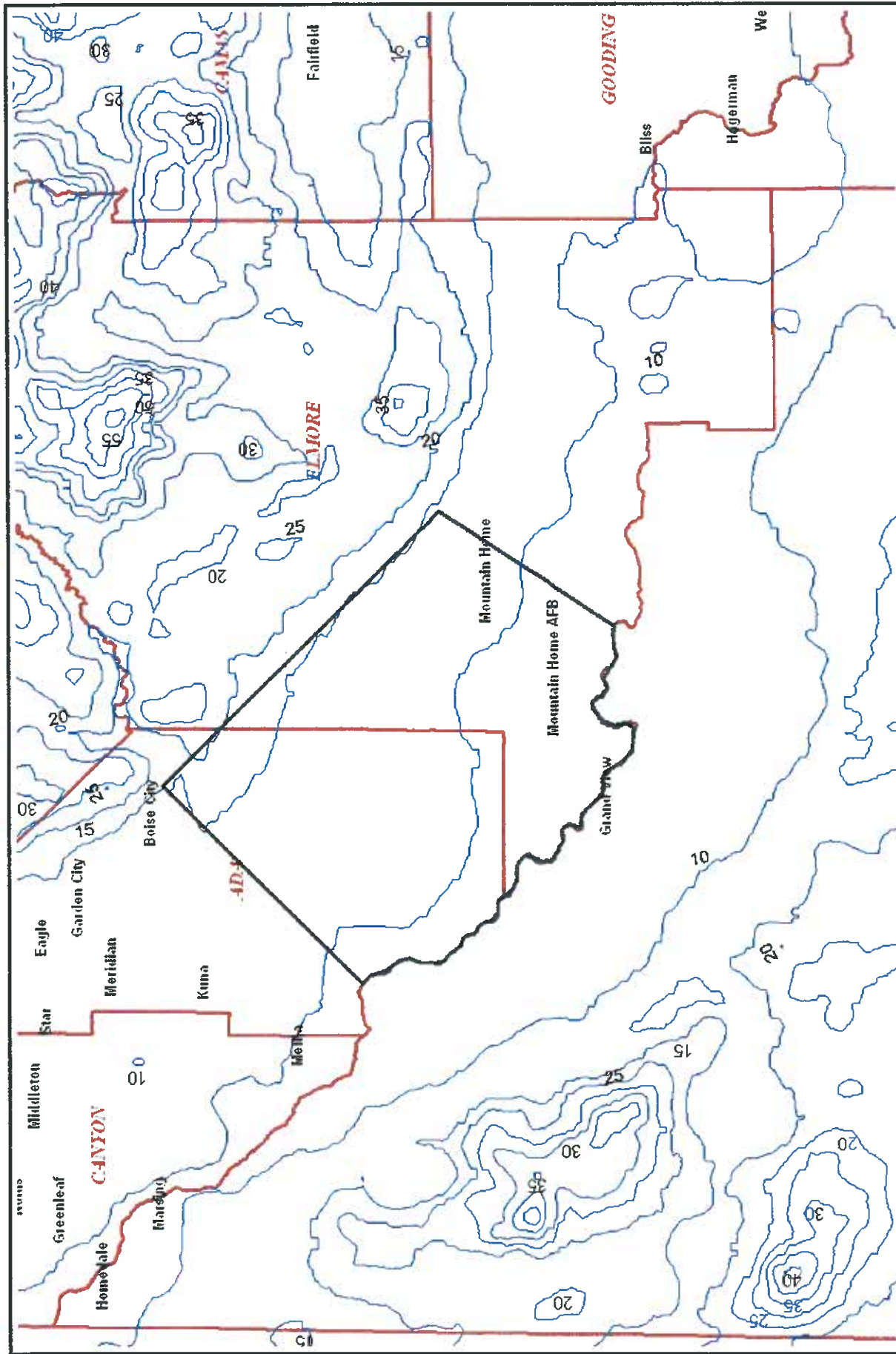


FIGURE 10: MODEL LOCATION WITH PRECIPITATION CONTOURS
IDWR PRECIPITATION DATA CONTOURS AT 5 FT INTERVALS
 SHEKINAH INDUSTRIES GROUND WATER MODEL

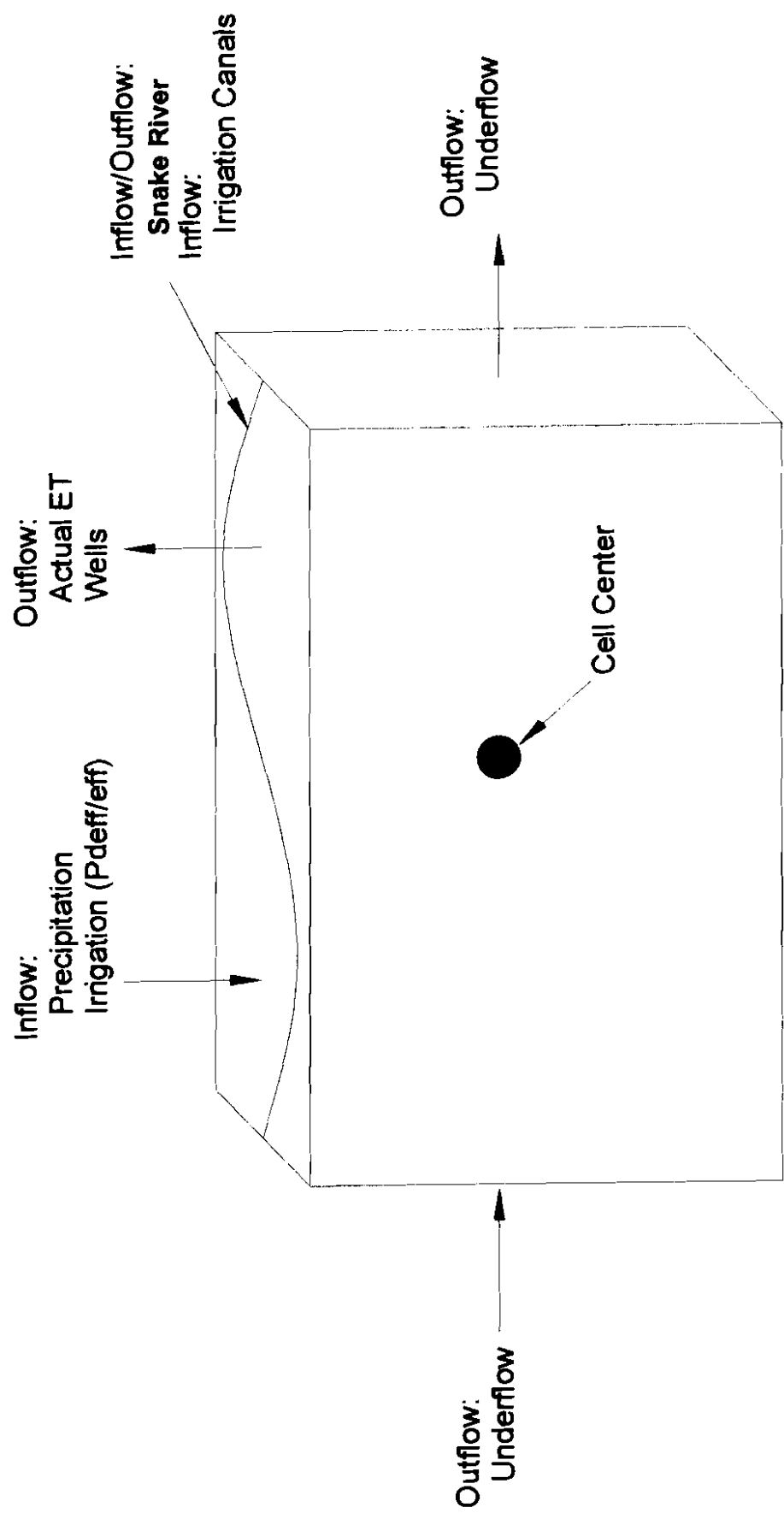
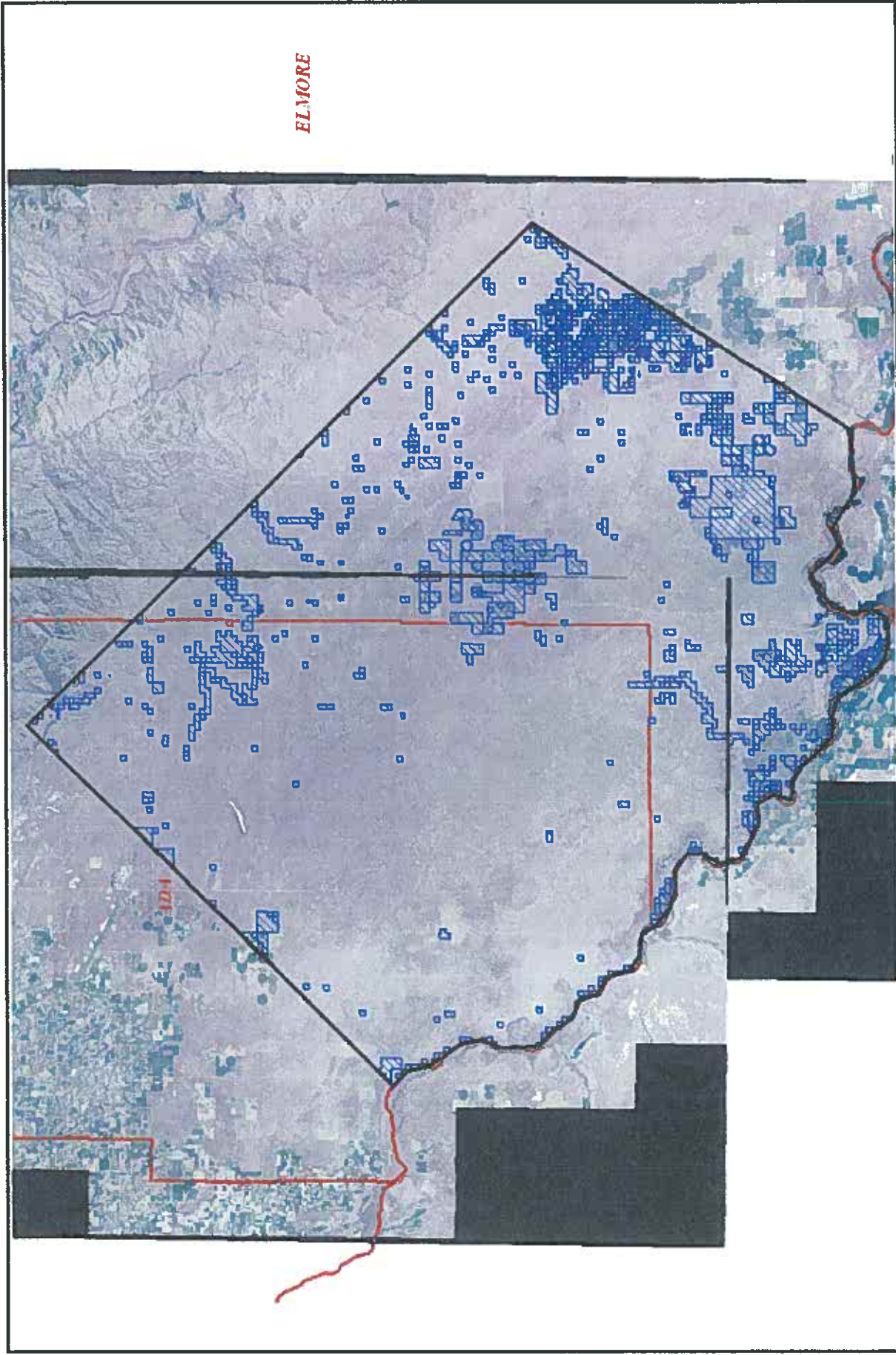


FIGURE 11: WATER BALANCE OF MODEL CELL
MODFLOW WATER BALANCE EXAMPLE
 SHEKINAH INDUSTRIES GROUND WATER MODEL



LEGEND

- COUNTY BOUNDARY
- MODEL BOUNDARY
- IRRIGATION

FIGURE 12: IDWR IRRIGATED AREA IDENTIFIED BY WATER RIGHT
ADA AND ELMORE COUNTIES
 SHEKINAH INDUSTRIES GROUND WATER MODEL

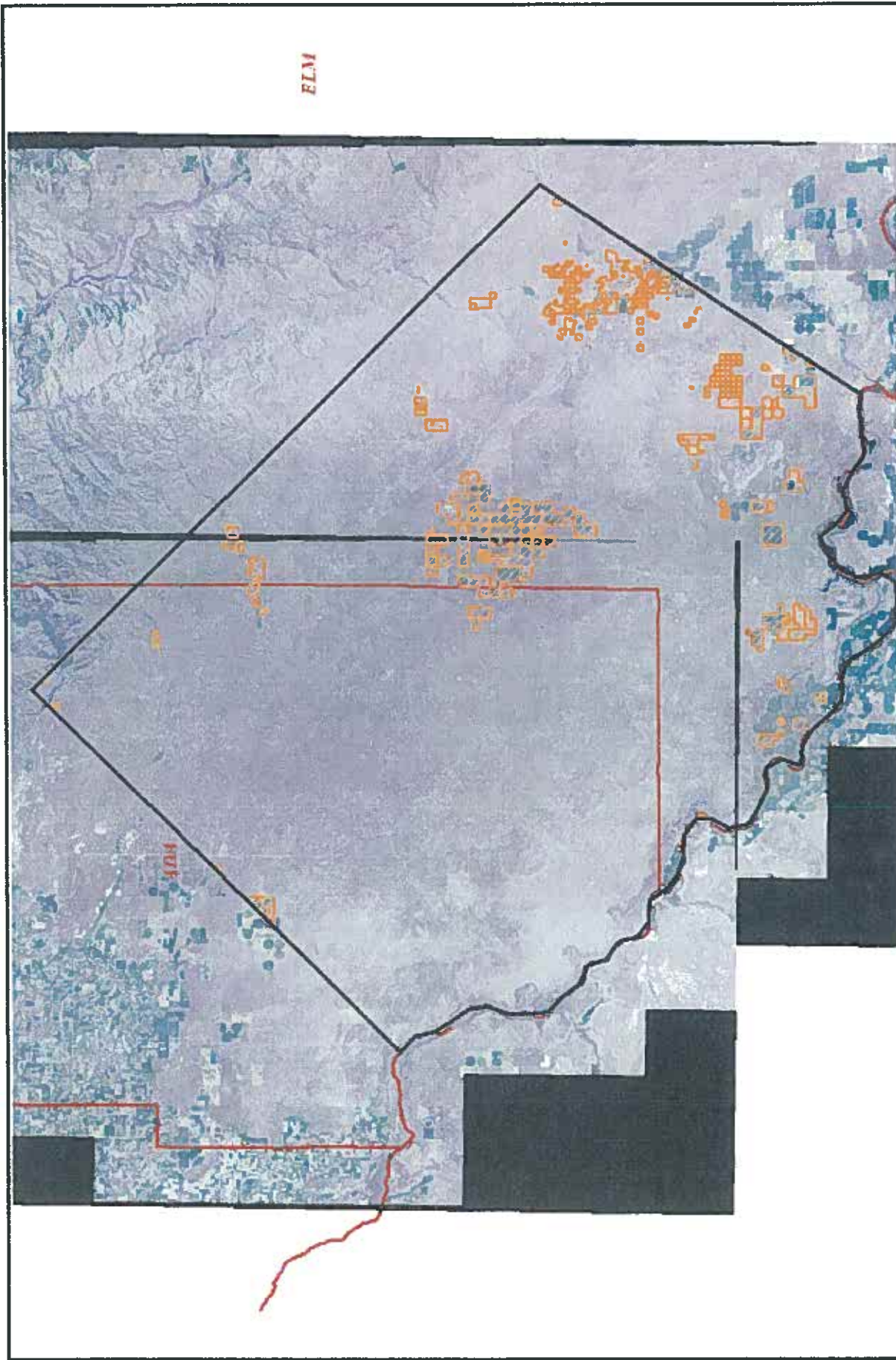


FIGURE 13: IDWR IRRIGATED AREA IDENTIFIED BY GROUND WATER RIGHT

ADA AND ELMORE COUNTIES
SHEKINAH INDUSTRIES GROUND WATER MODEL

LEGEND
 COUNTY BOUNDARY
 MODEL BOUNDARY
 GW IRRIGATION

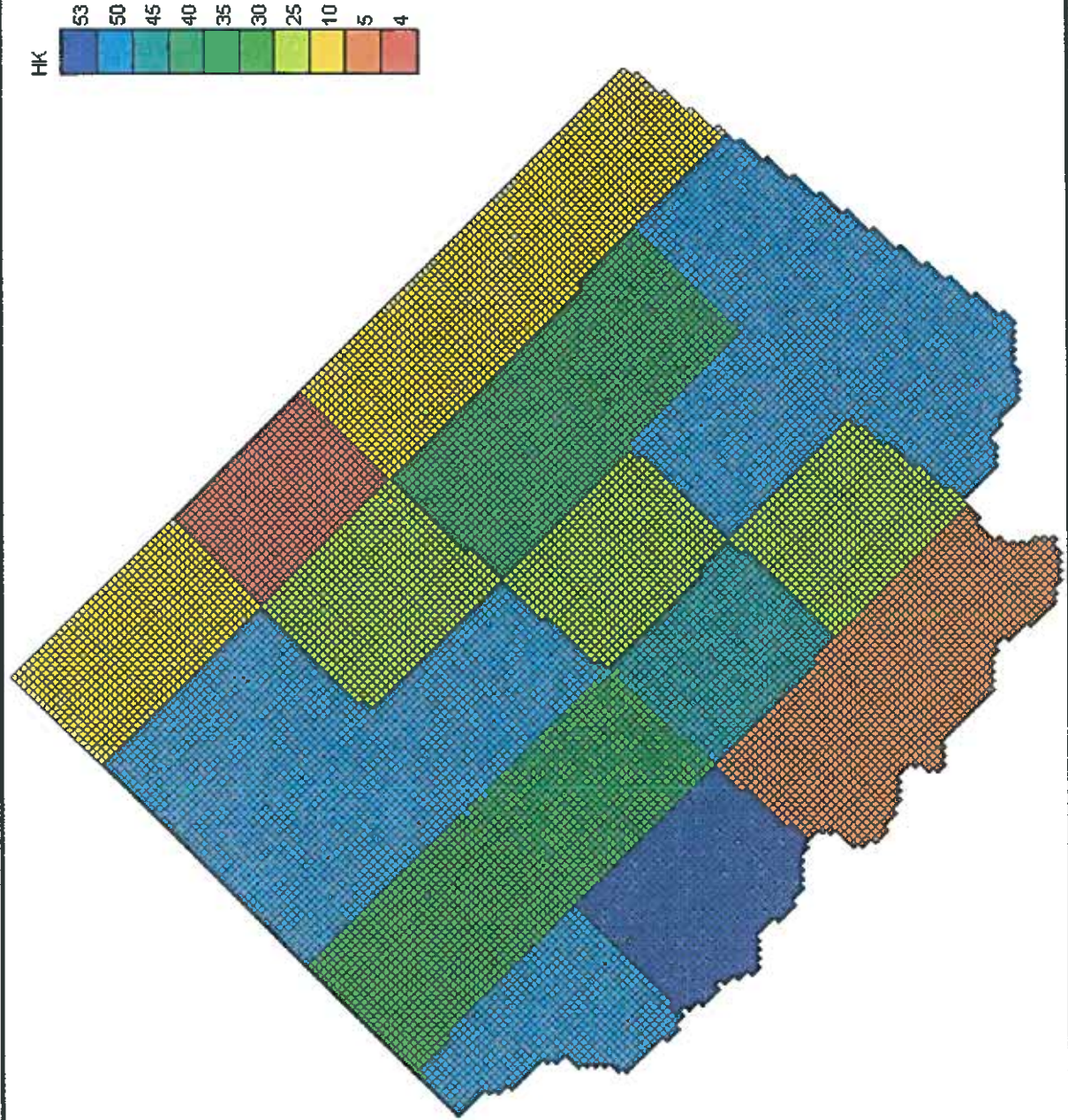


FIGURE 14: CALIBRATED HYDRAULIC CONDUCTIVITY ZONES
STEADY STATE CONDITION
 SHEKINAH INDUSTRIES GROUND WATER MODEL

Computed vs. Observed Values
Head

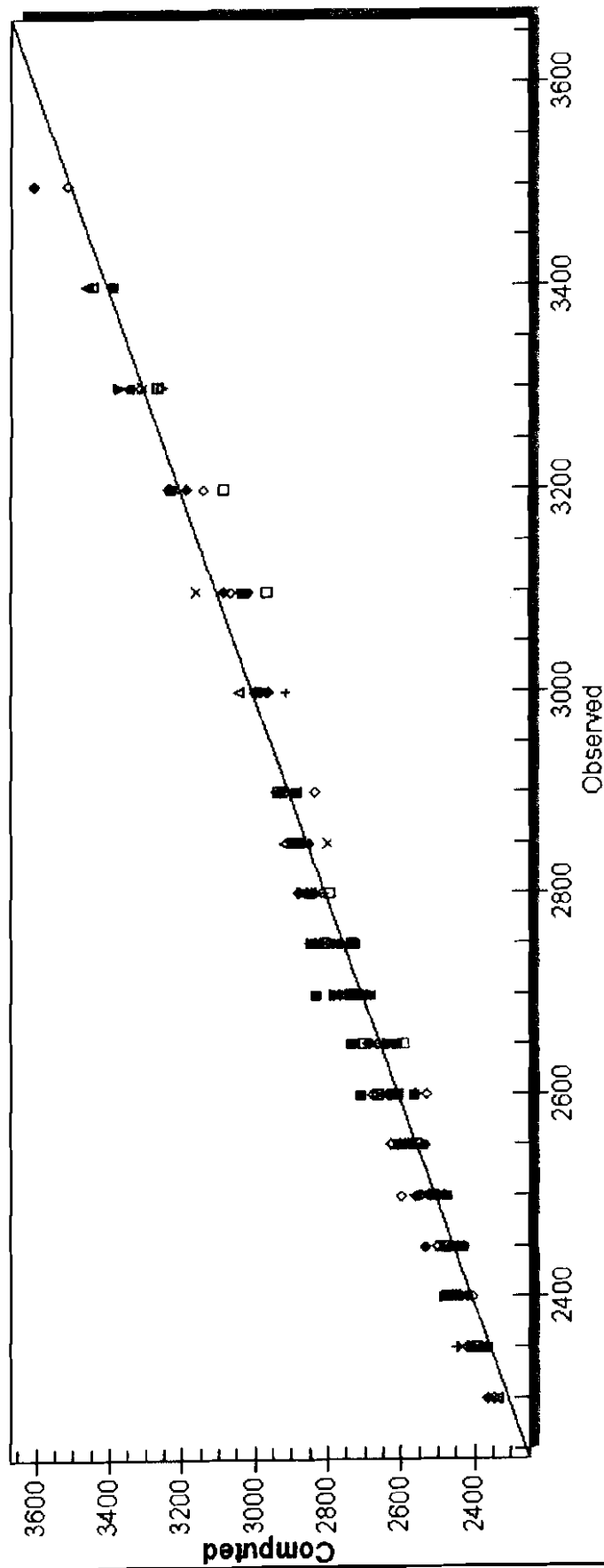


**FIGURE 15: PUBLISHED USGS (NEWTON, 1991)
GROUND WATER ELEVATIONS VS SIMULATED ELEVATIONS**
SHEKINAH INDUSTRIES GROUND WATER MODEL RESULTS

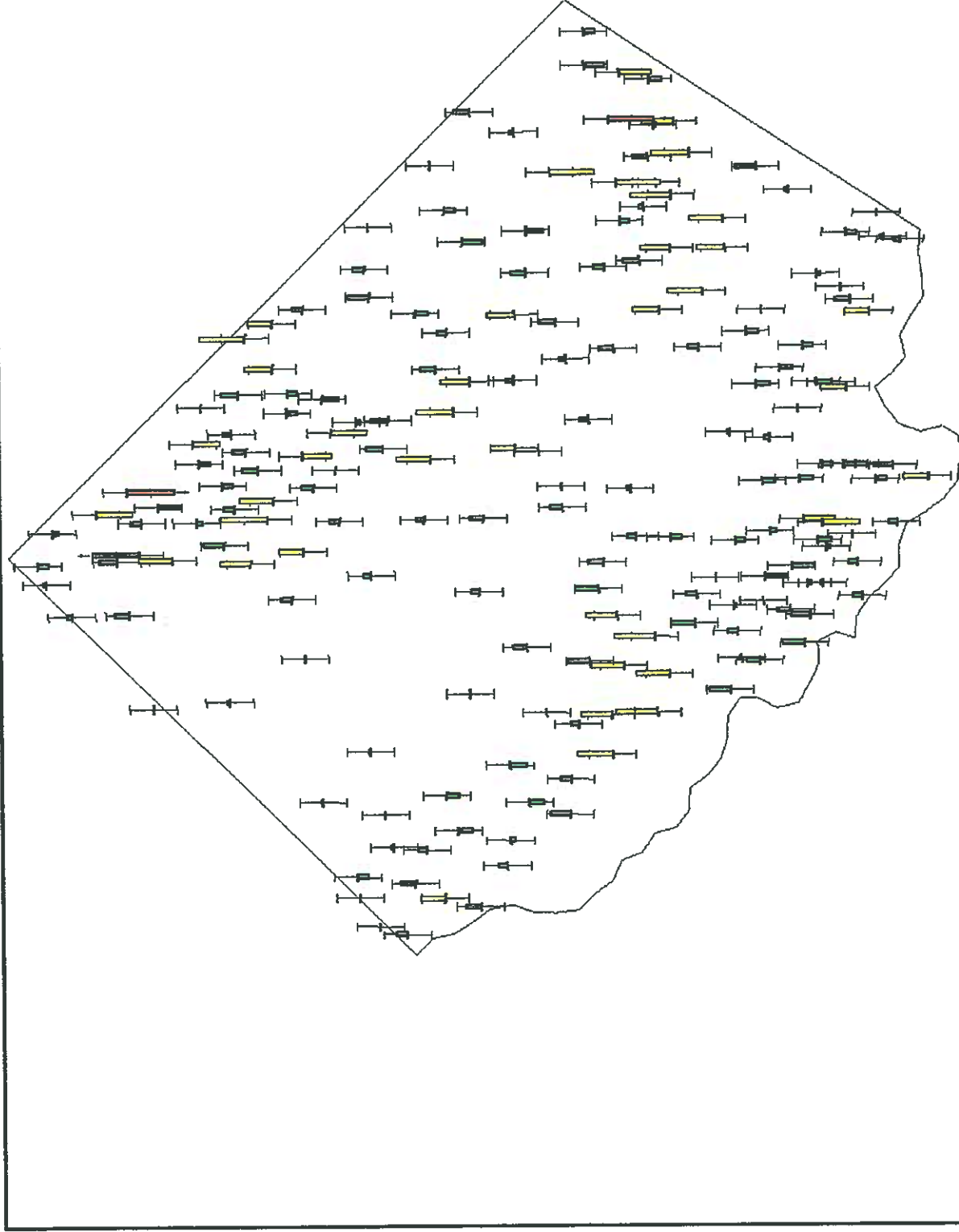


FIGURE 16: WHISKER PLOT OF OBSERVED WELLS
BARS INDICATE AREAS OF DIFFERENCES BETWEEN SIMULATED WATER LEVELS
AND PUBLISHED USGS WATER LEVELS
SHEKINAH INDUSTRIES GROUND WATER MODEL

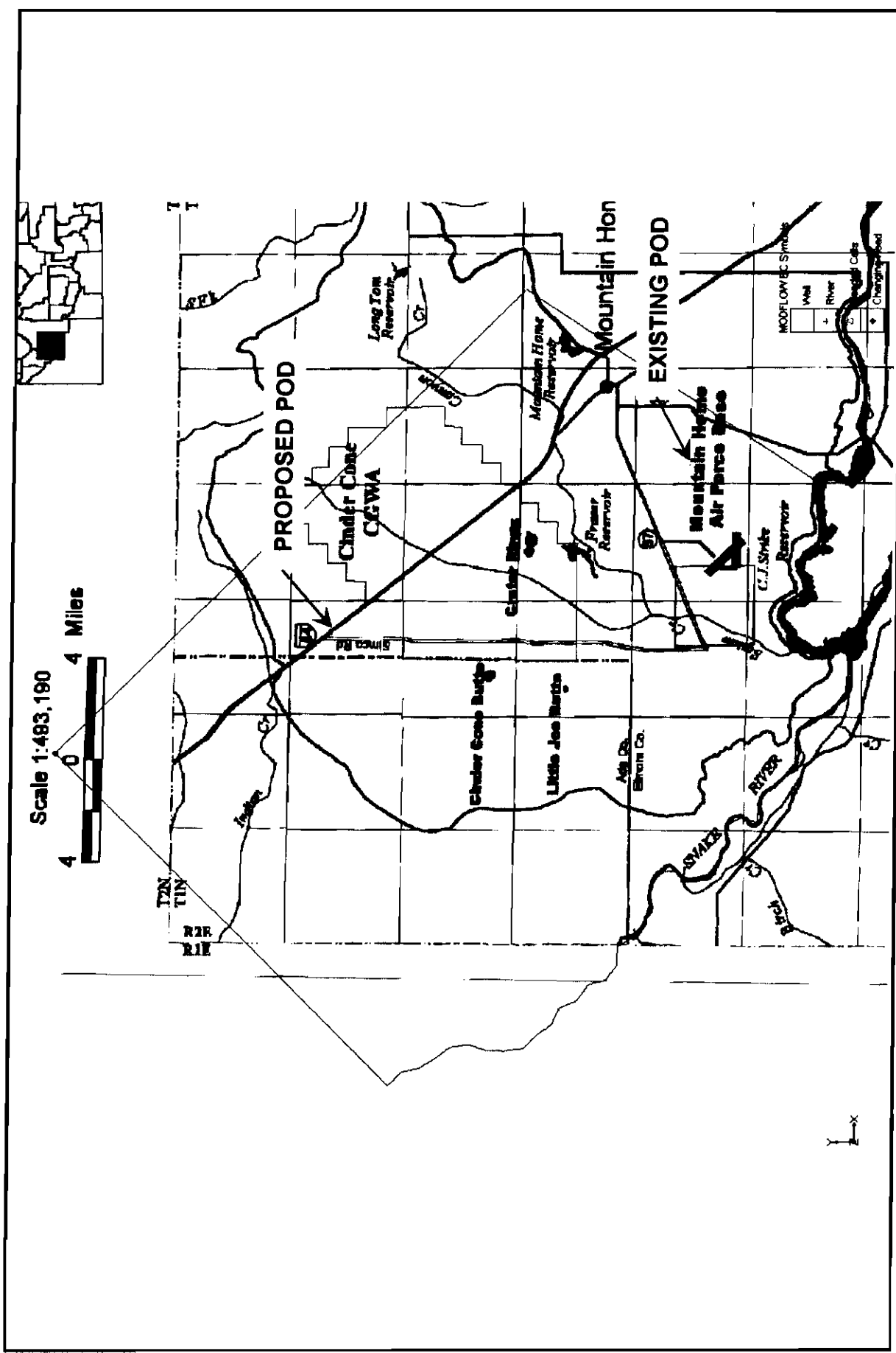
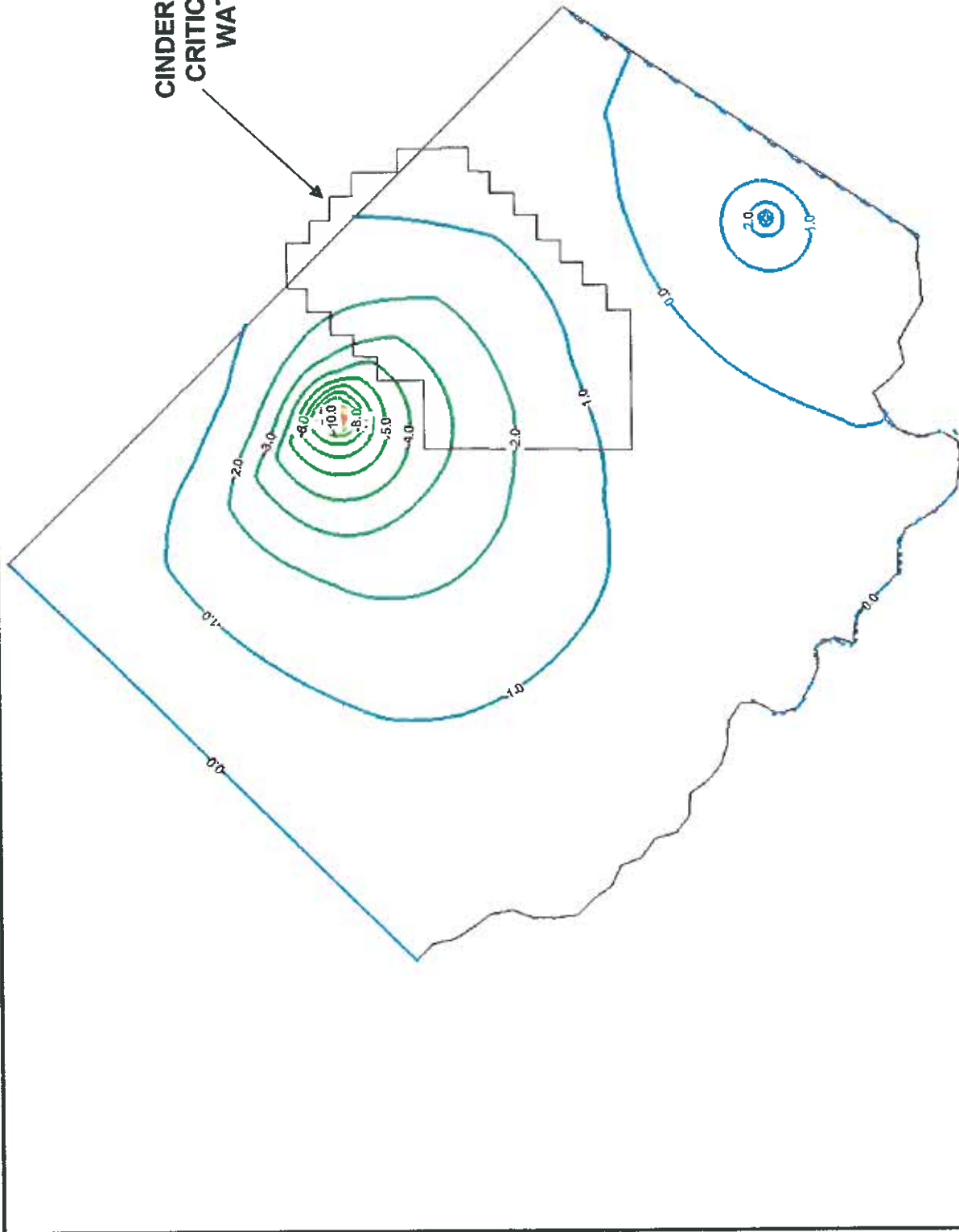


FIGURE 17: EXISTING AND PROPOSED POD
IDWR MAP OF CGWA AND GWMA
 SHEKINAH INDUSTRIES GROUND WATER MODEL



CINDER CONE BUTTE
CRITICAL GROUND
WATER AREA

**FIGURE 18: STEADY STATE CHANGES IN WATER SURFACE ELEVATION
FROM PROPOSED WATER RIGHT TRANSFER NO. 73811
SHEKINAH INDUSTRIES GROUND WATER MODEL**

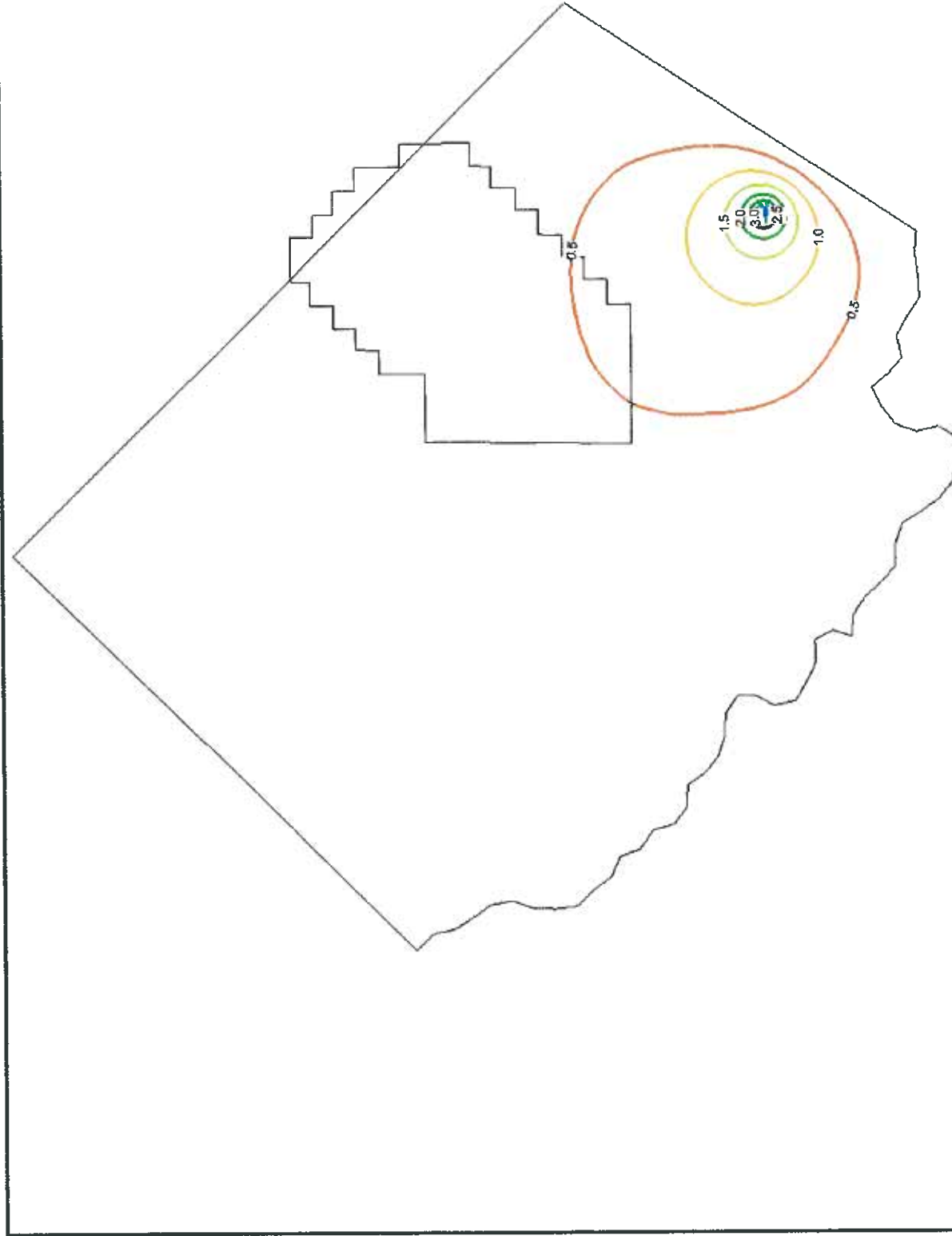


FIGURE 19: EFFECT OF CURRENT DECREED WATER RIGHT ON CGWA
WATER RIGHT TRANSFER NO. 73811
SHEKINAH INDUSTRIES GROUND WATER MODEL

Appendix A
IDWR Well Driller Logs

RECEIVED

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IDAHO DEPARTMENT OF WATER RESOURCES

WELL DRILLER'S REPORT

Use Typewriter
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Ball Point PenWATER RESOURCES
WESTERN REGION

(PAGE 1) OF 3 PAGES 95106

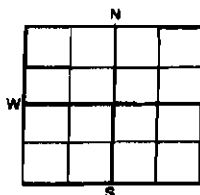
1. DRILLING PERMIT NO. 61-98-41-0075-000Other IDWR No. D000 7403

2. OWNER:

Name FRANK BONESSAAddress 1979 BORCHERS DRIVECity SAN JOSE State CA Zip 95124

3. LOCATION OF WELL by legal description:

Sketch map location must agree with written location.

T. 1S North ☐ or South ☒
R. 3E East ☒ or West ☐
Sec. 13 SE 1/4 NE 1/4 NE 1/4
Gov't Lot _____ County ADAAddress of Well Site 1 MILE WEST OF ORCHARD
ACCESS RD ON ORCHARD RANCH LANE; THEN
1 MILE NORTH
(Give at least Direction + Distance to Road or Landmark)

Lot No. _____ Block No. _____ Subd. Name _____

4. PROPOSED USE:

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

5. TYPE OF WORK

☒ New Well ☐ Modify or Repair ☐ Replacement ☐ Abandonment

6. DRILL METHOD

☐ Mud Rotary ☐ Air Rotary ☒ Cable ☐ Other _____

7. SEALING PROCEDURES

SEAL/FILTER PACK		AMOUNT		METHOD
Material	From	To	Sacks or Pounds	
NEAT CEMENT	124.41	127	17	DISPLACED THROUGH 8" Casing
GROUT	5	115	115	
BENTONITE	115	116	16	
NEAT CEMENT	116	117	16	

Was drive shoe seal tested? NO How? _____

8. CASING/LINER:

Diameter	From	To	Gauge	Casing	Liner	Steel	Plastic	Welded	Threaded
8 5/8	1.03	124.41	1/4	✓	✓	☒	☐	☒	☐
6 5/8	1	551	0.28	✓	✓	☐	☒	☒	☐
5 7/8	514	629.7	0.188	✓	✓	☒	☐	☒	☐
4 1/2	522.7	581.0	0.237	✓	✓	☒	☐	☒	☐

Final location of shoes 8" shoe at 124.41'Top Packer or Headpipe 514 Bottom Tailpipe 629.7

9. PERFORATIONS/SCREENS

☒ Perforations Method SAWED IN PVC, TUBES☒ Screens Type JOHN DEERE Material CONTINUOUS SLOT WIRE WOUND

From	To	Slot Size	Number	Diameter	Tele. Pipe Size	Casing	Liner
410	550	3/32	104	6 5/8	PIPE	☒	☐
562	570.45	0.020	1A	5 7/8	(6" TUBES)	☒	☐
582	581.0	1/16	78	4 1/2	PIPE	☐	☒

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JUN 25 1999

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10. WELL TESTS:

☒ Pump ☐ Bailor ☐ Air ☐ Flowing Artesian

Yield gal/min.	Drawdown	Pumping Depth	Time
9.7	< 1 FT	500.8	12 HRS

Temperature of water 66°F Was a water analysis done? Yes ☐ No ☒

By whom? _____

Water Quality (odor, etc.) EXCELLENTBottom Hole Temperature 66°F

11. STATIC WATER LEVEL:

500 ft. below surface Depth artesian flow found _____Artesian pressure _____ lb. Describe access port 8" CASING
BY REMOVING WELL CAP

12. LITHOLOGIC LOG: (Describe repairs or abandonment)

Bore Dia.	From	To	Remarks: Lithology, Water Quality & Temperature	WATER
8	0	551		1
6	551	634		
6	2	2	SOIL	
2	6	6	SOIL, SUBSOIL, CLAYEY HARDEN	
6	8	8	SANDY CLAY	
8	16	16	CLAY	
16	18	18	SAND	
18	21.5	21.5	SANDY CLAY	
21.5	35	35	BACK	
35	63	63	CLAYEY SAND	
63	64	64	GRAVEL	
64	69	69	CLAYEY SAND	
69	70	70	GRAVEL	
70	76	76	CLAYEY SAND	
76	107	107	GRAVEL	
107	116	116	CLAY	
116	122	122	GRAVEL	
122	124	124	BASALT	
124	127	127	RUBBLE & CINDERS	
127	216	216	BASALT	
216	217	217	BASALT, CRACKED, RED IN SEAMS	
217	257	257	BASALT	
257	257	257	BOULDERS, HARD, RED MATRIX	
257	272	272	BASALT, RED IN SEAMS	
272	273	273	RUBBLE & CINDERS	
273	311	311	BASALT	
311	311	311	RUBBLE & CINDERS	

Date: Started Nov 20, 1998 Completed SEE PAGE 3

13. DRILLER'S CERTIFICATION

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

Firm Name ARTESIAN CO Firm No. 318Firm Official HUGH HARDEN Date 7 June 1999Supervisor or Operator Hugh Harden Date 7 June 1999

(Sign once if Firm Official & Operator)

JUN 08 1999

WELL DRILLER'S REPORT

JUN 14 1999

(PAGE 2) OF 3 PAGES

95107

Department of Water Resources

1. DRILLING PERMIT REGION

Other IDWR No. D 000 7483

2. OWNER:

Name FRANK [REDACTED] BONESSA

Address _____

City _____ State _____ Zip _____

3. LOCATION OF WELL by legal description:

Sketch map location must agree with written location.

OFFICE USE ONLY	
T. _____	North ☐ or South ☐
R. _____	East ☐ or West ☐
Gov't Lot _____	County _____
1/4 _____	1/4 _____

Address of Well Site _____

(Give at least Direction + Distance to Road or Landmark)

Lot No. _____ Block No. _____ Subd. Name _____

4. PROPOSED USE:

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

5. TYPE OF WORK

- ☐ New Well ☐ Modify or Repair ☐ Replacement ☐ Abandonment

6. DRILL METHOD

- ☐ Mud Rotary ☐ Air Rotary ☐ Cable ☐ Other _____

7. SEALING PROCEDURES

SEAL/FILTER PACK			AMOUNT		METHOD
Material	From	To	Backs	Pounds	

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

8. CASING/LINER:

Diameter	From	To	Gauge	Casing	Liner	Steel	Plastic	Welded	Threaded
						☐	☐	☐	☐
						☐	☐	☐	☐
						☐	☐	☐	☐
						☐	☐	☐	☐

Final location of shoes 6" PVC COUPLING @ 551 FT

Top Packer or Headpipe _____ Bottom Tailpipe _____

9. PERFORATIONS/SCREENS

- ☐ Perforations Method _____
☐ Screens Type _____ Material _____

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

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AUG 25 1999

FORWARD WHITE COPY TO WATER RESOURCES

10. WELL TESTS:

- ☐ Pump ☐ Bailor ☐ Air ☐ Flowing Artesian

Yield gal/min.	Drawdown	Pumping Depth	Time

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

By whom? _____

Water Quality (odor, etc.) _____

Bottom Hole Temperature _____

11. STATIC WATER LEVEL:

_____ ft. below surface Depth artesian flow found _____

Artesian pressure _____ lb. Describe access port _____

Describe Controlling Devices: _____

12. LITHOLOGIC LOG: (Describe repairs or abandonment)

Bore Dia.	From	To	Remarks: Lithology, Water Quality & Temperature	2nd	3rd
	312	317	BASALT SOFTER, BROWN	✓	✓
	317	320	BASALT HARD, GREY	✓	✓
	320	323	BASALT SOFTER, BROWN	✓	✓
	323	325	BASALT MED. HARD, GREY	✓	✓
	325	328	RUBBLE & CINDER, BROWN	✓	✓
	328	330	CLAY, BROWN	✓	✓
	330	332	BASALT, HARD, BROWN	✓	✓
	332	335	SANDSTONE, TAN	✓	✓
	335	338	CLAY, TAN	✓	✓
	338	340	SAND, TAN	✓	✓
	340	342	CLAY, TAN	✓	✓
	342	344	CLAYEY SAND, TAN	✓	✓
	344	346	CLAY, TAN	✓	✓
	346	348	SANDY CLAY, TAN	✓	✓
	348	350	CONGLOMERATE, TAN	✓	✓
	350	352	CLAYEY SAND, TAN	✓	✓
	352	354	CONGLOMERATE TAN	✓	✓
	354	356	CLAYEY SAND, TAN	✓	✓
	356	358	CLAY, TAN	✓	✓
	358	360	SAND, TAN	✓	✓
	360	362	CLAYEY SAND, TAN	✓	✓
	362	364	SAND TAN	✓	✓
	364	366	CLAYEY SAND TAN	✓	✓
	366	368	SAND TAN	✓	✓
	368	370	CLAYEY SAND & CLAY	✓	✓
	370	372	SAND TAN	✓	✓
	372	374	CLAYEY SAND TAN	✓	✓

Date: Started PAGE 1 Completed PAGE 3

13. DRILLER'S CERTIFICATION

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

Firm Name ARTESIAN CO Firm No. 318Firm Official Neph Hadden Date 7 June 1999

Supervisor or Operator _____ Date _____

(Sign once if Firm Official & Operator)

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JUN 08 1999

IDAHO DEPARTMENT OF WATER RESOURCES

WELL DRILLER'S REPORT

Use Typewriter
or
Ball Point PenWATER RESOURCES
WESTERN REGION

61-98-W-0075-000

PAGE 3

OF 3 PAGES

95108

1. DRILLING PERMIT NO.

Other IDWR No. D 0000 7403

2. OWNER:

Name FRANK BONESSA
Address 1979 BURNING DRIVE
City SAN JOSE State CA Zip 95124

3. LOCATION OF WELL by legal description:

Section, Township, Range, and Meridian location.

OFFICE USE ONLY

Section	1/4	1/4	1/4	1/4
10 acres	40 acres	160 acres		

North ☐ or South ☐
East ☐ or West ☐
County San Jose

Address of Well Site

(Give at least Direction + Distance to Road or Landmark)

Lot No. Block No. Subd. Name

4. PROPOSED USE:

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

5. TYPE OF WORK

- ☐ New Well ☐ Modify or Repair ☐ Replacement ☐ Abandonment

6. DRILL METHOD

- ☐ Mud Rotary ☐ Air Rotary ☐ Cable ☐ Other

7. SEALING PROCEDURES

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

Was drive shoe seal tested? ☐ YES ☐ NO How?

8. LINER: HANGER

Diameter	From	To	Gauge	Casting	Liner

5" COUPLING CUT OFF
SEWED TO INSIDE
HEADPIPE
HARDWARE
GROUND
SMOOTH

Final location of shoes - 4" LINER - NO SHOES

Top Packer or Headpipe Bottom Tailpipe

9. PERFORATIONS/SCREENS PIPE AXES, CHAMFERED

- ☐ Perforations ☐ Method INTERNALLY & GROUND
☐ Screens ☐ Type INTERNAL ☐ Material

From	To	Slot Size	Number	Diameter	Top Pipe Size

Casting Liner

☐ ☐☐ ☐☐ ☐☐ ☐☐ ☐☐ ☐☐ ☐☐ ☐☐ ☐☐ ☐☐ ☐☐ ☐☐ ☐☐ ☐☐ ☐☐ ☐

10. WELL TESTS:

- ☐ Pump ☐ Bailor ☐ Air ☐ Flowing Artesian

Yield gal/min.	Drawdown	Pumping Depth	Time

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

By whom? _____

Water Quality (odor, etc.) _____

Bottom Hole Temperature _____

11. STATIC WATER LEVEL:

_____ ft. below surface Depth artesian flow found _____

Artesian pressure _____ lb. Describe access port _____

Describe Controlling Devices: _____

12. LITHOLOGIC LOG: (Describe repairs or abandonment)

Bore Dia.	From	To	Remarks: Lithology, Water Quality & Temperature	Y	N
			5750 SAND, TAN	✓	
			5850 CLAYEY SAND, TAN		✓
			5950 SAND, TAN	✓	
			6050 CLAYEY SAND, TAN		✓
			6150 SAND, TAN	✓	
			6250 ROCK BASALT? 8' 1/2"		✓
			6350 SAND, TAN	✓	
			6450 SANDY CLAY, TAN		✓
			6550 SAND, TAN	✓	
			6650 ROCK CONGLOMERATE? TAN		✓
			6750 CLAY, TAN		✓
			6850 CONGLOMERATE? TAN		✓
			6950 CLAYEY GRAVEL	✓	✓
			7050 CLAYEY SAND, TAN	✓	✓
			7150 ALTERNATING LAYERS SAND/CLAY	✓	✓
			7250 CLAYEY GRAVEL, TAN		✓
			7350 CLAY, TAN	✓	✓
			7450 SAND, TAN	✓	
			7550 ALTERNATING LAYERS SAND/CLAY	✓	✓

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JUN 14 1999

Department of Water Resources

Date: Started SEE PAGE 1 Completed JUNE 1, 1999

13. DRILLER'S CERTIFICATION

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

Firm Name ARTESIAN CO Firm No. 318Firm Official Hugh Harden Date JUNE 7, 1999

and Supervisor or Operator _____ Date _____

(Sign once if Firm Official & Operator)

FORWARD WHITE COPY TO WATER RESOURCES

Form 238-7
3/95-C96

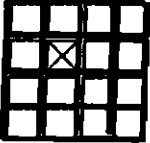
IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

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

1. DRILLING PERMIT NO. _____
Other IDWR No. D0018029

2. OWNER:
Name Chris Reninger
Address P.O. Box 190782
City Boise State ID Zip 83719

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

W  E
Twp. 1 North ☐ or South ☒
Rge. 4 East ☒ or West ☐
Sec. 1 1/4 SW 1/4 NW 1/4
10 acres 40 acres 160 acres
Gov't lot _____ County Elmore

Lat: _____ Long: _____
Address of Well Site Baseline Rd just past
Old Hwy. 30 cut-off City Boise
(Give at least name of road + Distance to Road or Landmark)
Lt. _____ Blk. _____ Sub. Name _____

4. USE:

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

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

6. DRILL METHOD

☒ Air Rotary ☐ Cable ☐ Mud Rotary ☐ Other _____

7. SEALING PROCEDURES

SEAL/FILTER PACK		AMOUNT		METHOD
Material	From	To	Sacks or Pounds	
bentonite	0'	18'	25 sacks	overbore

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

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

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
6"	+2'	502'	.250	steel	☒	☐	☒	☐
					☐	☐	☐	☐
					☐	☐	☐	☐

Length of Headpipe 12' Length of Tailpipe _____

9. PERFORATIONS/SCREENS

☐ Perforations Method pull back

☒ Screens Screen Type telescoping

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
504'	514'	.020		5.5"	StSt	☐	☐
						☐	☐
						☐	☐

10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

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

11. WELL TESTS:

Yield gal/min	Drawdown	Pumping Level	Time
70 GPM		500'	2 hrs.

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

Depth first Water Encountered 355'

12. LITHOLOGIC LOG: (Describe repair or abandonment)

Water				Y	N
Bore Dia	From	To	Remarks: Lithology, Water Quality & Temp.		
10"	0'	2'	brown top soil		
10"	2'	4'	brown hard pan		
10"	4'	6'	hard brown clay		
10"	6'	8'	coarse brown sand		
10"	8'	18'	brown clay		
8"	18'	21'	brown clay		
8"	21'	65'	brown clay & coarse sand strips		
8"	65'	72'	brown & white decomposed granite		
8"	72'	85'	bron clay		
8"	85'	150'	soft brown & white granite		
8"	150'	166'	soft white granite		
8"	166'	203'	black & brown granite		
8"	203'	240'	soft white granite		
8"	240'	290'	brown clay & coarse sand strips		
8"	290'	305'	white & brown granite		
8"	305'	312'	hard brown clay		
8"	312'	355'	brown clay & coarse white sand strip		
8"	355'	358'	white & brown sand		
8"	358'	361'	brown clay		
6"	361'	381'	brown clay		
6"	381'	384'	brown sand		
6"	384'	397'	brown clay		
6"	397'	415'	coarse brown sand w/sandy clay strip		
6"	415'	448'	coarse white & brown sand		
6"	448'	457'	brown clay		
6"	457'	461'	crse/fine brn & wht sand w/gravel		
6"	461'	470'	sandy clay & sm sand & gravel strips		
6"	470'	502'	coarse/fine brown sand packed		
6"	502'	504'	brown clay		
6"	504'	515'	white sand & small gravel		

Completed Depth: 516 (Measurable)

Date: Started 4-3-01 Completed 4-10-01

13. DRILLER'S CERTIFICATION

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

Firm Name SOS Well Drilling Firm No. _____

Firm Official Tony Hackett Date 5-17-00

Supervisor or Operator James King Date 5-17-0

(Sign once if Firm Official & Operator)
RECEIVED

Date: 5/16/01 Time: 9:18 AM

JUN - 4 2001

Department of Water Resources

IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

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

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

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

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

W

			X

 E Twp. 1 North ☐ or South ☒
Rge. 4 East ☒ or West ☐
Sec. 2 1/4 NE 1/4 NE 1/4
Gov't lot _____ County Elmore

Lat: _____ Long: _____
Address of Well Site Prairie Grass Rd. off baseline rd.
City Mtn Home
(Give at least name of road + Distance to Road or Landmark)

Lt. _____ Blk. _____ Sub. Name _____

4. USE:

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

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

☒ New Well ☐ Modify ☐ Abandonment ☐ Other

6. DRILL METHOD

☒ Air Rotary ☐ Cable ☐ Mud Rotary ☐ Other

7. SEALING PROCEDURES

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

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

8. CASING/LINER:

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

Length of Headpipe N/A Length of Tailpipe _____

9. PERFORATIONS/SCREENS

☐ Perforations Method _____
☒ Screens Screen Type Johnson

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

10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

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

11. WELL TESTS:

Yield gal/min.	Drawdown	Pumping Level	Time
30			1

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

Depth first Water Encountered 409'

12. LITHOLOGIC LOG: (Describe repair or abandonment)

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

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NOV 13 2002

WATER RESOURCES
WESTERN REGION

Completed Depth: 434' (Measurable)

Date: Started 10-28-02 Completed 11-01-02

13. DRILLER'S CERTIFICATION

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

Firm Name Hiddleston & Son, Inc.

Firm No. 35

Firm Official [Signature]

Date 11-11-02

Supervisor or Operator [Signature]

Date 11-11-02

(Sign once if Firm Official & Operator)

Date 6/17/99

IDaho DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

799883

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

1. DRILLING PERMIT NO. _____
Other IDWR No. D0029374
2. OWNER:
Name Jack Buchanan
Address 731 S. Prairie Grass Rd.
City Boise State ID _____ Zip 83716
3. LOCATION OF WELL by legal description:
Sketch map location must agree with written location

N
 1
 W E
 Twp. ~~15~~ North ☐ or South X
 Rge. 4 East X or West ☐
 Sec. 2 $\frac{1}{4}$ SE $\frac{1}{4}$ NE $\frac{1}{4}$
 10 acres 40 acres 160 acres
 Gov't lot County Adm

Lat: : : Long: : :
Address of Well Site 731 S. Prairie Grass Rd.
City Boise
(Give at least name of road & distance to road or landmark)
L.t. Blk. Sub. Name

- 4. USE:**
☒ Domestic ☐ Municipal ☐ Monitor ☐ Irrigation
☐ Thermal ☐ Injection ☐ Other _____
- 5. TYPE OF WORK** check all that apply (Replacement etc.)
☒ New Well ☐ Modify ☐ Abandonment ☐ Other _____
- 6. DRILL METHOD**
☒ Air Rotary ☐ Cable ☐ Mud Rotary ☐ Other _____
- 7. SEALING PROCEDURES**

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

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

8. CASING/LINER:

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

Length of Headpipe 20' Length of Tailpipe N/A

9. PERFORATIONS/SCREENS

☐ Perforations Method _____
☒ Screens Screen Type Johnson

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

10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

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

11. WELL TESTS:

☐ Pump ☐ Bailer ☒ Air ☐ Flowing Artesian

Yield gal/min	Drawdown	Pumping Level	Time
50			1 hr

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

12. LITHOLOGIC LOG: (Describe repair or abandonment)

[illegible]

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

13. DRILLER'S CERTIFICATION

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

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

Form 238-7
3/95-C96

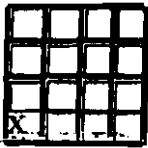
IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

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

1. DRILLING PERMIT NO. _____
Other IDWR No. D0015631

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

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

W  E
Twp. 1 North ☐ or South X
Rge. 4 East X or West ☐
Sec. 2 1/4 SW 1/4 SW 1/4
Gov't lot _____ County Elmore

Lat: _____ Long: _____
Address of Well Site Base Line Rd.
City Mtn Home

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

Lt. _____ Blk. _____ Sub. Name _____

4. USE:

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

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

☒ New Well ☐ Modify ☐ Abandonment ☐ Other _____

6. DRILL METHOD

☒ Air Rotary ☐ Cable ☐ Mud Rotary ☐ Other _____

7. SEALING PROCEDURES

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

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

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

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
6.625	+2	608	250	Steel	X	☐	X	☐
5.563	602	608			☐	X	X	☐
5.563	618	633	188	Steel	☐	X	X	☐

Length of Headpipe 6' Length of Tailpipe 15'

9. PERFORATIONS/SCREENS

☐ Perforations Method _____

X Screens Screen Type Johnson

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
608	618	.010		5.563	SS	☐	X
						☐	☐
						☐	☐

10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

388 ft. below ground Artesian Pressure _____ lb
Depth flow encountered ft. Describe access port or control

11. WELL TESTS:

☐ Pump ☐ Bailor ☐ Air ☐ Flowing Artesian

Yield gal/min.	Drawdown	Pumping Level	Time
20			

Water Temp. _____ Bottom hole temp. _____

Water Quality test or comments: _____

Depth first Water Encountered _____

12. LITHOLOGIC LOG: (Describe repairs or abandonment)

Water				Y	N
Bore Dia.	From	To	Remarks: Lithology, Water Quality & Temp.		
10	0	2	Top Soil		X
10	2	18	Sandy Clay		X
6	18	120	Tan Sand & Clay Seams		X
6	120	175	Brown Sand & Clay		X
6	175	200	Sand Stone		X
6	200	290	Tan Clay & Sand Seam		X
6	290	400	Tan Sand & Clay Seams		X
6	400	465	Tan Clay & Sand Seams		X
6	465	500	Tan Sand & Clay Seam		X
6	500	510	Coarse Sand - Rusty	X	
6	510	540	Tan Clay & Sand Seam		X
6	540	551	Brown Clay		X
6	551	620	Gray Sand	X	
6	620	633	Gray Sand & Hard Clay Seam		X

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DEC 16 2000

DEC 08 2000

Department of Water Resources

WATER RESOURCES
WESTERN REGION

Completed Depth: 633 (Measurable)

Date: Started 11-09-00 Completed 11-17-00

13. DRILLER'S CERTIFICATION

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

Firm Name Hiddleston & Son, Inc. Firm No. 35

Firm Official _____ Date 12-5-00

Supervisor or Operator _____ Date 11-30-00
(Sign once if Firm Official & Operator)

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

1. DRILLING PERMIT NO. _____
Other IDWR No. D0030779

2. OWNER:

Name Big View Builders
Address 5006 Man O War
City Nampa State ID Zip 83686

3. LOCATION OF WELL by legal description:

Sketch map location must agree with written location

W  E

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

Gov't lot County Elmore

Lat: _____ Long: _____
Address of Well Site 1020 Desert Wind Rd

City Mountain Home,
(Give at least name of road + Distance to Road or Landmark)

Lt. Blk. Sub. Name

4. USE:

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

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

☒ New Well ☐ Modify ☐ Abandonment ☐ Other

6. DRILL METHOD

☒ Air Rotary ☐ Cable ☐ Mud Rotary ☐ Other

7. SEALING PROCEDURES

SEAL/FILTER PACK			AMOUNT	METHOD
Material	From	To	Sacks or Pounds	
Bentonite	0	20	12	overbore

Was drive shoe used? ☒ Y ☐ N Shoe Depth(s) 278

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

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Linear	Welded	Threaded
6"	+2	278	250	steel	☒	☐	☒	☐
5"	684	491	188	steel	☐	☒	☒	☐
					☐	☐	☐	☐

Length of Headpipe _____ Length of Tailpipe _____

9. PERFORATIONS/SCREENS

Perforations Method

☒ Screens	Screen Type sand blocker
---	--------------------------

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
492	504	n/a	n/a	4"	stst	☐	☐
						☐	☐
						☐	☐

10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

363 ft. below ground Artesian Pressure _____ lb
Depth flow encountered 485 ft. Describe access point or control
devices:

11. WELL TESTS:

☒ Pump ☐ Bailer ☒ Air ☐ Flowing Artesian

Yield gal/min	Drawdown	Pumping Level	Time
15	50	415	3 hrs

Water Temp. _____ Bottom hole temp. _____

Water Quality test or comments:

Depth first Water Encountered 408

12. LITHOLOGIC LOG: (Describe repairs or abandonment)

Water

[illegible]

Completed Depth: 504 (Measurable)

Date: Started 01/12/04 Completed 02/15/04

13. DRILLER'S CERTIFICATION

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

Firm Name Skinner & Son Well Drilling Firm No. 635

Firm Official: [Signature] Date 3-2-0

Supervisor or Operator [Signature] Date 3-2-09
(Sign once if Firm Official & Operator)

Date: 3/2/04 Time: 3:50 PM

C POOR QUALITY

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

RECEIVED

AUG 03 1993

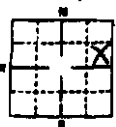
USE TYPEWRITER OR
BALLPOINT PEN

WELL DRILLER'S REPORT

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

Permit 721499

(2)

1. WELL OWNER Name <u>RONALD & ROSEANNA CASTLE</u> Address <u>HC 85, BX 237 GRANDVIEW, ID 83624</u> Drilling Permit No. <u>53-93-C-0031-000</u> Water Right Permit No. <u>61-07683 (upon approval)</u>		7. WATER LEVEL Static water level <u>338</u> feet below land surface. Flowing? ☐ Yes ☒ No G.P.M. flow _____ Artesian closed-in pressure _____ p.s.i. Controlled by: ☐ Valve ☐ Cap ☐ Plug Temperature <u>65</u> °F. Quality <u>Good</u> Describe artesian or temperature zones below.																																																																																																																	
2. NATURE OF WORK <u>NEW WELL</u> ☐ New well ☐ Deepened ☐ Replacement ☐ Well diameter increase ☐ Modification ☐ Abandoned (describe abandonment or modification procedures such as liners, screen, materials, plug depths, etc. in lithologic log, section 9.)		8. WELL TEST DATA <u>Air</u> ☐ Pump ☐ Bailor ☐ Air ☐ Other _____ <table border="1"><thead><tr><th>Discharge G.P.M.</th><th>Pumping Level</th><th>Hours Pumped</th></tr></thead><tbody><tr><td><u>50</u></td><td><u>3.5</u></td><td><u>1</u></td></tr></tbody></table>		Discharge G.P.M.	Pumping Level	Hours Pumped	<u>50</u>	<u>3.5</u>	<u>1</u>																																																																																																										
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3. PROPOSED USE <u>NON-DOMESTIC</u> ☐ Domestic ☐ Irrigation ☐ Monitor ☐ Industrial ☐ Stock ☐ Waste Disposal or Injection ☐ Other _____ (specify type)		9. LITHOLOGIC LOG <u>081538</u> <table border="1"><thead><tr><th rowspan="2">Bore Diam.</th><th colspan="2">Depth</th><th rowspan="2">Material</th><th colspan="2">Water</th></tr><tr><th>From</th><th>To</th><th>Yes</th><th>No</th></tr></thead><tbody><tr><td>4</td><td>5</td><td>5</td><td>BLEACHY</td><td></td><td>X</td></tr><tr><td>5</td><td>50</td><td>50</td><td>CLAY & DECOMPOSED</td><td></td><td>X</td></tr><tr><td></td><td></td><td></td><td>GRANITE AND SAND MIX</td><td></td><td>X</td></tr><tr><td>50</td><td>80</td><td>80</td><td>SAND</td><td></td><td>X</td></tr><tr><td>80</td><td>90</td><td>90</td><td>CLAY AND SAND MIXED</td><td></td><td>X</td></tr><tr><td>90</td><td>140</td><td>140</td><td>BOULDERS & SAND</td><td></td><td>X</td></tr><tr><td>140</td><td>225</td><td>225</td><td>CLAY & SAND MIXED</td><td></td><td>X</td></tr><tr><td>225</td><td>240</td><td>240</td><td>HARD GRANITE</td><td></td><td>X</td></tr><tr><td>240</td><td>270</td><td>270</td><td>DECOMPOSED GRANITE</td><td></td><td>X</td></tr><tr><td>270</td><td>275</td><td>275</td><td>BROWN CLAY</td><td></td><td>X</td></tr><tr><td>275</td><td>330</td><td>330</td><td>DECOMPOSED GRANITE</td><td></td><td>X</td></tr><tr><td>330</td><td>400</td><td>400</td><td>SAND</td><td></td><td>X</td></tr><tr><td>400</td><td>487</td><td>487</td><td>CLAY</td><td></td><td>X</td></tr><tr><td>487</td><td>510</td><td>510</td><td>LAVA ROCK</td><td>X</td><td></td></tr><tr><td>510</td><td>550</td><td>550</td><td>SWITCHED TO AIR ROTARY</td><td></td><td></td></tr><tr><td></td><td></td><td></td><td>BROKEN LAVA ROCK, &</td><td></td><td></td></tr><tr><td></td><td></td><td></td><td>SOME ROUND LAVA</td><td>X</td><td></td></tr></tbody></table>		Bore Diam.	Depth		Material	Water		From	To	Yes	No	4	5	5	BLEACHY		X	5	50	50	CLAY & DECOMPOSED		X				GRANITE AND SAND MIX		X	50	80	80	SAND		X	80	90	90	CLAY AND SAND MIXED		X	90	140	140	BOULDERS & SAND		X	140	225	225	CLAY & SAND MIXED		X	225	240	240	HARD GRANITE		X	240	270	270	DECOMPOSED GRANITE		X	270	275	275	BROWN CLAY		X	275	330	330	DECOMPOSED GRANITE		X	330	400	400	SAND		X	400	487	487	CLAY		X	487	510	510	LAVA ROCK	X		510	550	550	SWITCHED TO AIR ROTARY						BROKEN LAVA ROCK, &						SOME ROUND LAVA	X	
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4. METHOD DRILLED <u>AIR & MUD ROTARY</u> ☐ Rotary ☐ Air ☐ Auger ☐ Reverse rotary ☐ Cable ☐ Mud ☐ Other _____ (backhoes, hydraulic, etc.)																																																																																																																			
5. WELL CONSTRUCTION Casing schedule: ☒ Steel ☐ Concrete ☐ Other _____ <table border="1"><thead><tr><th>Thickness</th><th>Diameter</th><th>From</th><th>To</th></tr></thead><tbody><tr><td><u>3.25</u> inches</td><td><u>8</u> inches</td><td><u>1</u> feet</td><td><u>490</u> feet</td></tr><tr><td>_____ inches</td><td>_____ inches</td><td>_____ feet</td><td>_____ feet</td></tr><tr><td>_____ inches</td><td>_____ inches</td><td>_____ feet</td><td>_____ feet</td></tr></tbody></table> Was casing drive shoe used? ☐ Yes ☒ No Was a packer or seal used? ☐ Yes ☒ No Perforated? ☐ Yes ☒ No How perforated? ☐ Factory ☐ Knife ☐ Torch ☐ Gun Size of perforation? _____ inches by _____ inches <table border="1"><thead><tr><th>Number</th><th>From</th><th>To</th></tr></thead><tbody><tr><td>_____ perforations</td><td>_____ feet</td><td>_____ feet</td></tr><tr><td>_____ perforations</td><td>_____ feet</td><td>_____ feet</td></tr><tr><td>_____ perforations</td><td>_____ feet</td><td>_____ feet</td></tr></tbody></table> Well screen installed? ☐ Yes ☒ No Manufacturer _____ Type _____ Top Packer or Headpipe _____ Bottom of Tailpipe _____ Diameter _____ Slot size _____ Set from _____ feet to _____ feet Diameter _____ Slot size _____ Set from _____ feet to _____ feet Gravel packed? ☐ Yes ☒ No ☐ Size of gravel _____ Placed from _____ feet to _____ feet Surface seal depth _____ Material used in seal: ☐ Cement grout ☒ Bentonite ☐ Pudding clay ☐ _____ Sealing procedure used: ☐ Slurry pit ☐ Overbore to seal depth ☐ Temp. surface casing ☐ Threaded ☒ Welded Method of joining casing: ☐ Solvent Weld ☐ Cemented between struts Describe access port <u>WELL CAP</u>		Thickness	Diameter	From	To	<u>3.25</u> inches	<u>8</u> inches	<u>1</u> feet	<u>490</u> feet	_____ inches	_____ inches	_____ feet	_____ feet	_____ inches	_____ inches	_____ feet	_____ feet	Number	From	To	_____ perforations	_____ feet	_____ feet	_____ perforations	_____ feet	_____ feet	_____ perforations	_____ feet	_____ feet																																																																																						
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6. LOCATION OF WELL Sketch map location must agree with written location.  Subdivision Name _____ Lot No. _____ Block No. _____ County <u>ELMORE</u> Address of Well Site <u>HC 34 MAYFIELD STAGE BOX</u> (give at least name of road) T. <u>01S</u> N ☐ or S ☐ SE <u>1/4</u> NE <u>1/4</u> Sec. <u>9</u> R. <u>24E</u> E ☐ or W ☐		11. DRILLER'S CERTIFICATION I/We certify that all minimum well construction standards were complied with at the time the rig was removed. Firm Name <u>FITE CORP. DRILL FIRM</u> No. <u>312</u> Address <u>2305 W. CHINDEN</u> Date <u>7/29/93</u> Signed by Drilling Supervisor <u>[Signature]</u> and _____ (Operator) _____ (If different than the Drilling Supervisor)																																																																																																																	

61
Form 238-7
6/02

IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

845971

Office Use Only
Well ID No. 411604D
Inspected by _____
Twp _____ Rge _____ Sec _____
1/4 1/4 1/4
Lat: : : Long: : :

1. WELL TAG NO. D DOO47942 DOO47941
DRILLING PERMIT NO. _____
Water Right or Injection Well No. _____

2. OWNER:
Name Homan Land Development
Address 2229 W. State St. Suite B
City Boise State 10 Zip 83702

3. LOCATION OF WELL by legal description:

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

Twp. 4 North ☐ or South ☒
Rge. 4 East ☒ or West ☐
Sec. 3 SE 1/4 SE 1/4 NE 1/4
Gov't Lot _____ County _____

Lat: 43° 21' 55.2" Long: 112° 57' 2.9"
Address of Well Site 30 yds. north on Regia on west
Size of land 0.5 Acres City Boise

Lt. _____ Blk. _____ Sub. Name _____

4. USE:

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

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

☒ New Well ☐ Modify ☐ Abandonment ☐ Other _____

6. DRILL METHOD:

☒ Air Rotary ☐ Cable ☐ Mud Rotary ☐ Other _____

7. SEALING PROCEDURES

Seal Material	From	To	Weight / Volume	Seal Placement Method
<u>Bentonite</u>	<u>0</u>	<u>380</u>	<u>2050 lb</u>	<u>Overbore</u>

Was drive shoe used? ☒ Y ☐ N Shoe Depth(s) 396
Was drive shoe seal tested? ☒ Y ☐ N How? Air

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
<u>6"</u>	<u>12</u>	<u>396</u>	<u>.250</u>	<u>Steel</u>	☒	☐	☒	☐
<u>4 1/2"</u>	<u>16</u>	<u>476</u>	<u>.250</u>	<u>PVC</u>	☐	☒	☐	☒

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

9. PERFORATIONS/SCREENS PACKER TYPE

Perforation Method _____
Screen Type & Method of Installation PVC Checkback Set in

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
<u>476</u>	<u>556</u>	<u>.020</u>		<u>4 1/2"</u>	<u>PVC</u>	☐	☒

10. FILTER PACK

Filter Material	From	To	Weight / Volume	Placement Method

11. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

417 ft. below ground Artesian pressure lb.

12. WELL TESTS:

☐ Pump ☐ Bailor ☒ Air ☐ Flowing Artesian

Yield gal./min.	Drawdown	Pumping Level	Time
<u>30</u>		<u>540</u>	<u>2 1/2 hr</u>

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

13. LITHOLOGIC LOG: (Describe repairs or abandonment)

Bore Dia.	From	To	Remarks: Lithology, Water Quality & Temperature	Y
<u>10</u>	<u>0</u>	<u>1</u>	<u>Top Soil</u>	
<u>10</u>	<u>1</u>	<u>18</u>	<u>Brown Clay</u>	
<u>8</u>	<u>18</u>	<u>251</u>	<u>Sandstone w/ clay seams</u>	
<u>8</u>	<u>251</u>	<u>256</u>	<u>Brown Clay</u>	
<u>8</u>	<u>256</u>	<u>380</u>	<u>Brown Sand w/ clay seams</u>	
<u>6</u>	<u>380</u>	<u>396</u>	<u>Brown Sand w/ clay seams</u>	
<u>6</u>	<u>396</u>	<u>414</u>	<u>Black Sandstone</u>	
<u>6</u>	<u>414</u>	<u>525</u>	<u>Fractured Sandstone</u>	
<u>6</u>	<u>525</u>	<u>554</u>	<u>Fractured Black Sandstone</u>	☒
<u>6</u>	<u>554</u>	<u>563</u>	<u>Fractured Tan Sandstone</u>	☒

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APR 16 2007

WATER RESOURCES
WESTERN REGION

Completed Depth 556 (Measure)
Date: Started 3-29-07 Completed 4-4-07

14. DRILLER'S CERTIFICATION

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

Company Name The Hole Company Firm No. 6

Principal Driller [Signature] Date 4-9-07
and [Signature] 0.16

601

Form 238-7
6/02IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT1. WELL TAG NO. D D0047942
DRILLING PERMIT NO. _____
Water Right or Injection Well No. _____2. OWNER:
Name Homan Land Development
Address 2229 W. State St. Suite B
City Boise State ID Zip 83702

3. LOCATION OF WELL by legal description:

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

Twp. 1 North ☐ or South ☒
Rge. 4 East ☒ or West ☐
Sec. 3 1/4 NE 1/4 SE 1/4
Gov't Lot _____ County ElmoreLat: 43° 21' 57.8" Long: 115° 57' 18.7"
Address of Well Site 1.2 miles SE of Truck stop on Desert Wind Rd. City Boise

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

Lt. _____ Blk. _____ Sub. Name _____

4. USE:

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

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

☒ New Well ☐ Modify ☐ Abandonment ☐ Other _____

6. DRILL METHOD:

☒ Air Rotary ☐ Cable ☐ Mud Rotary ☐ Other _____

7. SEALING PROCEDURES

Seal Material	From	To	Weight / Volume	Seal Placement Method
<u>Bentonite</u>	<u>0</u>	<u>418</u>	<u>51 bags</u>	<u>Over bore</u>

Was drive shoe used? ☒ Y ☐ N Shoe Depth(s) 157Was drive shoe seal tested? ☒ Y ☐ N How? At

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
<u>6"</u>	<u>+2</u>	<u>457</u>	<u>.150</u>	<u>Steel</u>	☒	☐	☒	☐
<u>4 1/2"</u>	<u>3</u>	<u>583</u>	<u>.250</u>	<u>PVC</u>	☐	☒	☐	☒

Length of Headpipe _____ Length of Tailpipe _____

Packer ☐ Y ☐ N Type _____

9. PERFORATIONS/SCREENS PACKER TYPE

Perforation Method _____

Screen Type & Method of Installation Cortado Set in

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
<u>483</u>	<u>583</u>	<u>.020</u>		<u>4 1/2"</u>	<u>PVC</u>	☐	☒

10. FILTER PACK

Filter Material	From	To	Weight / Volume	Placement Method

11. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

417 ft. below ground Artesian pressure _____ lb.

846175

Office Use Only

Well ID No. 416231

Inspected by _____

Twp _____ Rge _____ Sec _____

1/4 1/4 1/4

Lat: _____ Long: _____

12. WELL TESTS:

☐ Pump ☐ Bailer ☒ Air ☐ Flowing Artesian

Yield gal./min.	Drawdown	Pumping Level	Time
<u>30</u>		<u>580</u>	<u>2 Hrs.</u>

Water Temp. _____ Bottom hole temp. _____

Water Quality test or comments: _____

Depth first Water Encounter _____

13. LITHOLOGIC LOG: (Describe repairs or abandonment)

Bore Dia.	From	To	Remarks: Lithology, Water Quality & Temperature
<u>10</u>	<u>1</u>	<u>18</u>	<u>Brown Sand w/ C/Clay</u>
<u>8</u>	<u>18</u>	<u>338</u>	<u>Brown Sand w/ C/Clay</u>
<u>8</u>	<u>338</u>	<u>342</u>	<u>Sticky Brown Clay</u>
<u>8</u>	<u>342</u>	<u>409</u>	<u>Brown Sand</u>
<u>8</u>	<u>409</u>	<u>447</u>	<u>Blue Clay</u>
<u>6</u>	<u>447</u>	<u>583</u>	<u>Hard & Stiff Blue Sandstone</u>

RECEIVED

APR 16 2007

WATER RESOURCES
WESTERN REGIONCompleted Depth 583 (Measure)Date: Started 4-5-07 Completed 4-12-07

14. DRILLER'S CERTIFICATION

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

Company Name The Hole Company Firm No. 62Principal Driller [Signature] Date 4-16-07
and [Signature]

IDAHO DEPARTMENT OF WATER RESOURCES WELL DRILLER'S REPORT

874817 depth = 500' @ 23

Office Use Only SWL = 0

Inspected by _____

Twp _____ Rge _____ Sec _____

1/4 1/4 1/4

Lat: _____ Long: _____

1. DRILLING PERMIT NO 874817 - 789255

Other IDWR No. D0025927 CPS# 1675

2. OWNER:

Name Williams Pipeline West

Address 5921 Industrial Way

City American Falls State ID Zip 83202

3. LOCATION OF WELL by legal description:

Sketch map location must agree with written location

N

W

		X	

 E

Twp. 1 North ☐ or South X

Rge. 4 East X or West ☐

Sec. 7 1/4 NW 1/4 NE 1/4

10 acres 40 acres 160 acres

S Gov't lot _____ County Ada

Lat: _____ Long: _____

Address of Well Site Exit 71, 1/2 mile from Compressor

Station _____ City Boise

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

Lt. _____ Blk. _____ Sub. Name _____

4. USE:

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

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

☒ New Well ☐ Modify ☐ Abandonment ☐ Other _____

6. DRILL METHOD

☒ Air Rotary ☐ Cable ☐ Mud Rotary ☐ Other _____

7. SEALING PROCEDURES

SEAL/FILTER PACK		AMOUNT		METHOD
Material	From	To	Sacks or Pounds	
Bentonite	0	18	1200 lbs	Overbore
Coke	300	500	206	Overbore

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

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

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Linear	Welded	Threaded
10.750	0	74	363	Steel	X		X	
8.625	125	500	322	Steel		X	X	

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

9. PERFORATIONS/SCREENS

☒ Perforations Method Trachs

☐ Screens Screen Type _____

From	To	Slot Size	Number	Diameter	Material	Casing	Linear
300	100	1250	85	4	Steel		

10. STATIC WATER LEVEL OR ARTESIAN

PRESSURE:

0 ft. below ground

Artesian Pressure _____ lb

Depth flow encountered _____ ft.

Describe access port or control

device: _____

11. WELL TESTS:

Yield gal/min	Drawdown	Pumping Level	Time

Water Temp. _____ Bottom hole temp. _____

Water Quality test or comments: _____

Depth first Water Encountered _____

12. LITHOLOGIC LOG: (Describe repair or abandonment)

Water	Bore Dia.	From	To	Remarks: Lithology, Water Quality & Temp.	Y	N
	14"	0	8	Top Soil		X
	14"	8	18	Sand		X
	10.75	18	74	Sand & Clay Seam		X
	10.75	74	300	Gray Lava		X
	10.75	300	500	Decomposed Granite		X

RECEIVED

FEB 07 2003

WATER RESOURCES
WESTERN REGION

Completed Depth: 500'

(Measurable)

Date: Started 11-26-02

Completed 1-23-03

13. DRILLER'S CERTIFICATION

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

Firm Name Hiddleston & Son, Inc.

Firm No. 35

Firm Official _____

Date 2-4-02

Supervisor or Operator _____

(Sign once if Firm Official & Operator)

Date 2-4-03

USE TYPEWRIT
BALL POINT PEN

State Department of Administration

WELL DRILLER'S REPORT

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

① 14
Depth = 695'
SWC = 540'
yield = 25 gpm
S
Use = S, D, I

WELL OWNER

Name JOHN WEIMER
Address _____
Owner's Permit No. _____

7. WATER LEVEL

Static water level 540 feet below land surface
Flowing? ☐ Yes ☒ No G.P.M. flow _____
Temperature _____ ° F. Quality _____
Artesian closed-in pressure _____ p.s.i.
Controlled by ☐ Valve ☐ Cap ☐ Plug

2. NATURE OF WORK

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

8. WELL TEST DATA

☐ Pump ☒ Bailer ☐ Other
Discharge G.P.M. 25 Draw Down 12' Hours Pumped 15 BAILED

3. PROPOSED USE

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

4. METHOD DRILLED

☒ Cable ☐ Rotary ☐ Dug ☐ Other

5. WELL CONSTRUCTION

Diameter of hole 8 inches Total depth 695 feet

Casing schedule: ☒ Steel ☐ Concrete

Thickness	Diameter	From	To
<u>1/4"</u> inches	<u>10 1/2"</u> inches	<u>0</u> feet	<u>290</u> feet
<u>3/4"</u> inches	<u>8 1/2"</u> inches	<u>290</u> feet	<u>695</u> feet
<u>1 1/4"</u> inches	<u>6 1/2"</u> inches	<u>695</u> feet	<u>695</u> feet

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

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

Well screen installed? ☐ Yes ☒ No

Manufacturer's name _____

Type _____ Model No. _____

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

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

Gravel packed? ☐ Yes ☒ No Size of gravel _____

Placed from _____ feet to _____ feet

Surface seal? ☒ Yes ☐ No To what depth 290 feet

Material used in seal ☒ Cement grout ☒ Puddling clay

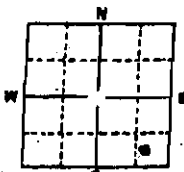
9. LITHOLOGIC LOG

028862

Hole Diam.	Depth		Material	Water	
	From	To		Yes	No
10"	0	3	TOP SOIL		X
10"	3	31	SANDY CLAY		X
10"	31	80	COURSE SAND GRAVEL		X
10"	80	84	SOFT LAWA		X
10"	84	102	VERY HARD BLK. LAWA		X
10"	102	136	LAWA GRAY NOT SO HARD		X
10"	136	138	RED GRAY		X
10"	138	143	GRAY LAWA HARD		X
10"	143	173	RED AND BLK. CINDER		X
10"	173	180	HARD GRAY LAWA		X
10"	180	206	RED LAWA		X
10"	206	235	BLK. LAWA HARD		X
10"	235	254	RED LAWA		X
10"	254	272	GRAVEL AND BRICKLY		X
8"	272	345	SANDY GRAVEL		X
8"	345	400	SANDY CLAY		X
8"	400	500	DRY SAND		X
8"	500	570	SANDY CLAY GRAVEL		X
8"	570	600	SANDY CLAY		X
8"	600	665	BLUE CLAY		X
8"	665	695	FINE SAND		X
8"	695	695	COURSE SAND GRAVEL		X

6. LOCATION OF WELL

Sketch map location must agree with written location.



10. Work started 27 APR. '1 finished JUNE 8th

11. DRILLER'S CERTIFICATION

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

Russell Cowie
Driller's Firm's Name _____ Number _____

Address _____

Signed By _____ Date _____

County Ado

NE x SE x Sec. 7 T. 15 N. R. 4E E/W

Form 238-7
6/07

Pg 1 of 2

IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

903350-850338

1. WELL TAG NO. D 0052831

Drilling Permit No. 903350-850338

Water right or injection well # 63-33036

2. OWNER

Name Pacific West Land, LLC Test Well #1

Address 911 Hildebrand Lane NE #203

City Bainbridge Island State WA Zip 98110

3. WELL LOCATION:

Twp. 1 North ☐ or South ☒ Rge. 4 East ☒ or West ☐

Sec. 8 NW 1/4 SW 1/4 NE 1/4

Gov't Lot _____ County Ada

Lat. N43° 21.237" (Deg. and Decimal minutes)

Long W116° 0.243" (Deg. and Decimal minutes)

Address of Well Site 2.3 mi. S of I84 on S. Orchard Access Rd. &

200 ft. E. of Orchard City Boise

Plot or map name of road - Distance to Road or Landmark

Lot _____ Blk. _____ Sub. Name _____

4. USE:

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

☒ Other Piezometer Nest

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

☒ New Well ☐ Replacement well ☐ Modify existing well

☐ Abandonment ☐ Other Well Design by Hydro Logic, Inc.

6. DRILL METHOD:

☐ Air Rotary ☒ Mud Rotary ☐ Cable ☐ Other AR 110' to 310'

7. SEALING PROCEDURES

See material	From (ft)	To (ft)	Quantity (lbs or ft³)	Placement method/procedure
3/4" Baroid Chips	0'	19'	11.9 ft.	Poured

8. CASING/LINER:

Diameter (nominal)	From (ft)	To (ft)	Gauge/Schedule	Material	Casing	Liner	Threaded	Welded
16"	0'	19'	.250	Steel	☒	☐	☐	☒
12"	0'	110'	.375	Steel	☒	☐	☐	☒
10"	+2'	295'	.250	Steel	☒	☐	☐	☒

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

9. PERFORATIONS/SCREENS:

Perforations ☐ Y ☒ N Method _____

Manufactured screen ☒ Y ☐ N Type 2" PVC Sch80 Slotted

Method of installation _____

From (ft)	To (ft)	Slot size	Number/ft	Diameter (nominal)	Material	Gauge or Schedule
932'	1052'	.020	Zone1	2"	PVC	Sch80
732'	822'	.020	Zone2	2"	PVC	Sch80
575'	645'	.020	Zone3	2"	PVC	Sch80

Length of Headpipe None Length of Tailpipe None

Packer ☐ Y ☒ N Type _____

10. FILTER PACK:

Filter Material	From (ft)	To (ft)	Quantity (lbs or ft³)	Placement method
See Table Pg. 2				

11. FLOWING ARTESIAN:

Flowing Artesian? ☐ Y ☒ N Artesian Pressure (PSIG) See Pg. 2

Describe control device Locked Steel Enclosure

12. STATIC WATER LEVEL and WELL TESTS:

Depth first water encountered (ft) 516' Static water level (ft) See Pg. 2

Water temp (°F) See Pg. 2 Bottom hole temp. (°F) 78.59°F

Describe access port 3 - 2" Tube Wells inside Locked Well Head

Well test:

Test method:

Drawdown (feet)	Discharge or yield (gpm)	Test duration (minutes)	Pump	Boiler	Air	Flowing artesian
No Pump	Testing	Other	☐	☒	☒	☐
Than	Air-Lifting	and				
Pump	Samples					

Water Quality test or comments: See Table Pg. 2

13. LITHOLOGIC LOG and/or repairs or abandonment:

Bore Dia. (in)	From (ft)	To (ft)	Remarks, lithology or description of repairs or abandonment, water temp	Water Y	N
20	0	19	Tan & Brown Sand		X
16	19	26	Tan & Brown Sand		X
16	26	47	Tan Coarse Sand		X
16	47	68	Tan Coarse Sand & Clay		X
16	68	73	Tan Coarse Sand		X
16	73	86	Gravel with Some Sand		X
16	86	105	Sticky Tan Clay		X
16	105	107	Basalt		X
16	107	110	Tan Clay & Dark Brown Cinders		X
12	110	119	Black Basalt & Hard Cinders		X
12	119	154	Black Fractured Basalt		X
12	154	176	Red Basalt Cinders		X
12	176	200	Basalt		X
12	200	208	Sand, Gravel, & Basalt		X
12	208	220	Brown Clay, Sand & Reddish-Brown Cinders		X
12	220	300	Coarse Sand & Gravel		X
10	300	338	Coarse Sand & Gravel		X
10	338	396	Tan Clay		X
10	396	432	Coarse Sand & Tan Clay		X
10	432	451	Coarse Sand		X
10	451	527	Dark Tan Clay		X
10	527	568	Small & Coarse Sand		X
10	568	616	Clayey Tan Sand		X
10	616	652	White Sand with Tan Clay Beds		X
10	652	697	Large White Coarse Sand		X
10	697	708	Small Sand		X
10	708	732	Gray & Clayey Tan Sand		X
10	732	748	Medium Gray Sand		X
10	748	772	Sticky Grayish Sandy Blue Clay		X
10	772	824	Small Gray Sand		X
10	824	927	Grayish Sandy Blue Clay		X
10	924	992	Medium Dark Gray Sand		X

Completed Depth (Measurable) 1082'

Date: Started 1/7/2008 Completed 3/21/2008

14. DRILLER'S CERTIFICATION

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

Company Name Treasure Valley Drilling Co. No. 560

*Principal Driller Date 4/2/2008

*Driller Date 4/2/2008

*Operator II Date _____

Operator I Date _____

* Signature of Principal Driller and rig operator are required

IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

1. WELL TAG NO. D 0052631

Drilling Permit No. 903350-850338

Water right or injection well # 83-33036

2. OWNER

Name Pacific West Land, LLC Test Well #1

Address 911 Hildebrand Lane NE #203

City Bainbridge Island State WA Zip 98110

3. WELL LOCATION:

Twp 1 North ☐ or South ☒ Rge. 4 East ☒ or West ☐Sec. 8 NW 1/4 SW 1/4 NE 1/4
0 acres 40 acres 160 acres

Gov't Lot County Ada

Lat. N 43° 21.237' (Deg. and Decimal minutes)

Long. W 116° 0.243' (Deg. and Decimal minutes)

Address of Well Site 2.3 mi. S of 184 on S. Orchard Access Rd. & 200 ft. E. of Orchard City Boise

Name of land owner or owner's agent

Lot B& Sub. Name

4. USE:

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

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

☒ New Well ☐ Replacement well ☐ Modify existing well
☐ Abandonment ☐ Other Well Design by Hydo Logic, Inc.

6. DRILL METHOD: Direct

☐ Air Rotary ☒ Mud Rotary ☐ Cable ☐ Other AR 110' to 310'

7. SEALING PROCEDURES

Seal material	From (ft)	To (ft)	Quantity (lbs or ft)	Placement method/procedure
3/4" Baroid Chips	0'	19'	11.9 ft.	Poured

8. CASING/LINER:

Diameter (nominal)	From (ft)	To (ft)	Gauge/Schedule	Material	Casing	Liner	Threaded	Welded
2"	+2'	932	Sch80	PVC	☒	☐	☒	☐
2"	+2'	732	Sch80	PVC	☒	☐	☒	☐
2"	+2'	575	Sch80	PVC	☒	☐	☒	☐

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

9. PERFORATIONS/SCREENS:

Perforations ☐ Y ☒ N MethodManufactured screen ☐ Y ☒ N Type PVC Sch80 Slotted

Method of installation Lowered & Tagged into Place

From (ft)	To (ft)	Slot size	Number/R	Diameter (nominal)	Material	Gauge or Schedule
932'	1052'	.020	Zone1	2"	PVC	Sch80
732'	822'	.020	Zone2	2"	PVC	Sch80
575'	645'	.020	Zone3	2"	PVC	Sch80

Length of Headpipe None Length of Tailpipe None

Packer ☐ Y ☒ N Type

10. FILTER PACK:

Filter Material	From (ft)	To (ft)	Quantity (lbs or ft)	Placement method
			See Table	

11. FLOWING ARTESIAN:

Flowing Artesian? ☐ Y ☒ N Artesian Pressure (PSIG) See Table

Describe control device Locked Steel Enclosure

12. STATIC WATER LEVEL and WELL TESTS:

Depth first water encountered (ft) 518' Static water level (ft) See Below

Water temp. (°F) See Below Bottom hole temp. (°F) 78.50°F

Describe access port 3 - 2" Tube Wells inside Locked Well Head

Well test:

Test method:

Drawdown (feet)	Discharge or yield (gpm)	Test duration (minutes)	Pump	Boiler	Air	Flowing artesian
No Pump	Testing	Other	☐	☒	☒	☐
Than	Air-Lifting	and				
Pump	Samples					

Water Quality test or comments: See Table Below

13. LITHOLOGIC LOG and/or repairs or abandonment:

Bore Dia. (in)	From (ft)	To (ft)	Remarks, lithology or description of repairs or abandonment, water temp.	Water Y N
10	992	1027	Medium Sand with Some Blue Clay	X
10	1027	1063	Medium Gray Sand	X
10	1063	1087	Sticky Blue Clay	X
SEALING PROCEDURES:				
0	19	11.9 Ft	3/4" Bentonite Chips	Poured
105	110	1.9 Ft	3/4" Bentonite Chips	Poured
0	105	4.0 CY	Cement Grout	Pumped
0	300	3.2 CY	Cement Grout	Pumped
895	877	8.3 Ft	30% Bentonite Grout	Pumped
877	862	6.7 Ft	Cement Grout	Pumped
862	828	9.9 Ft	30% Bentonite Grout	Pumped
709	689	8.2 Ft	30% Bentonite Grout	Pumped
689	672	6.7 Ft	Cement Grout	Pumped
672	645	9.5 Ft	30% Bentonite Grout	Pumped
532	493	9.9 Ft	30% Bentonite Grout	Pumped
0	493	7.2 CY	Cement Grout	Pumped

FILTER PACK:

1082	895	"Birdseed" #8-#16	
828	728	"Birdseed" #8-#16	
645	532	"Birdseed" #8-#16	

WATER LEVEL, TEMPERATURE, CHEMISTRY

2-1	1052	932	SWL=523.8, 70.0F pH=8.53; 275µS
2-2	822	732	SWL=522.6; 65.0F; pH=8.50; 256µS
2-3	645	575	SWL=516.21; not meas.; not meas;

ARTESIAN PRESSURES:

2-1	371	Ft. or 161 psig
2-2	186	Ft. or 81 psig
2-3	16	Ft. or 7 psig

Completed Depth (Measurable) 1082'

Date: Started 1/7/2008 Completed 3/21/2008

14. DRILLER'S CERTIFICATION

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

Company Name Treasure Valley Drilling Co. No. 580

Principal Driller Date 4/2/2008

Driller Date 4/2/2008

Operator II Date

Operator I Date

* Signature of Principal Driller and rig operator are required.

CORRECTED 94796

Form 238-7
3/95-C96IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

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

1. DRILLING PERMIT NO.

Other IDWR No. D0007514

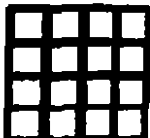
2. OWNER:

Name Jim HiseAddress Mayfield Stage, HC-34City Boise State ID Zip 83706

3. LOCATION OF WELL by legal description:

Sketch map location must agree with written location

N

Twp. 1 North ☐ or South ☒Rge. 4 East ☒ or West ☐Sec. 10 1/4 SE 1/4 SE 1/4Gov't lot _____ County Elmore

Lat: _____ Long: _____

Address of Well Site Mayfield Stage, HC-34City Boise

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

Lt. _____ Blk. _____ Sub. Name _____

4. USE:

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

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

- ☒ New Well ☐ Modify ☐ Abandonment ☐ Other

6. DRILL METHOD

- ☒ Air Rotary ☐ Cable ☐ Mud Rotary ☐ Other

7. SEALING PROCEDURES

SEAL/FILTER PACK		AMOUNT		METHOD
Material	From	To	Sacks or Pounds	
Bentonite	2'	40'	16	Overhaul

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

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
6"	+1'	541'	250'	Steel	☒	☐	☒	☐
4.5"	532'	542'	3040	PVC	☐	☐	☐	☐

Length of Headpipe _____ Length of Tailpipe _____

9. PERFORATIONS/SCREENS

- ☒ Perforations Method gww
☐ Screens Screen Type _____

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
539'	542'		80	4.5"	PVC	☐	☐
						☐	☐

10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

350ft. below ground

Depth flow encountered _____ ft.

Artesian Pressure _____ lb

Describe access port or control devices: _____

11. WELL TESTS:

- ☐ Pump ☐ Bailor ☒ Air ☐ Flowing Artesian

Yield gal/min	Drawdown	Running Level	Time
10		400'	1hr
40		520'	1hr
50		540'	1hr

Water Temp. _____ Bottom hole temp. _____

Water Quality test or comments: _____

Depth first Water Encountered 358'

12. LITHOLOGIC LOG: (Describe repairs or abandonment)

Bore Dia.	From	To	Remarks: Lithology, Water Quality & Temp.	Water	Y	N
10"	0'	1'	brown top soil			
10"	1'	2'	lt brown hardpan			
10"	2'	8"	coarse brown sand			
10"	8"	18"	brown sandy clay			
10"	18"	20"	coarse brown sand			
8"	20"	205'	brown clay/coarse sand strips			
8"	205'	223'	brown brown & black granite			
8"	223'	307'	brown & white granite			
8"	307'	328'	cemented quartz sand			
8"	328'	358'	white & clear granite			
8"	358'	396'	brown clay w/sand strips			
6"	396'	410'	coarse white & brown sand			
6"	410'	422'	brown clay			
6"	422'	432'	coarse white sand			
6"	432'	453'	lt brown clay w/small cracks			
6"	453'	464'	hard brown clay			
6"	464'	467'	coarse brown sand			
6"	467'	484'	lt brown sand w/sm. cracks			
6"	484'	501'	dirty brown sand w/clay strips			
6"	501'	532'	brown clay w/small cracks			
6"	532'	538'	grey clay w/grey sand			
6"	538'	542'	grey clay			
6"	542'	545'	blue/grey & white sand			

RECEIVED

RECEIVED

MAR 26 1999

MAR 30 1999

WATER RESOURCES
WESTERN REGION

Department of Water Resources

Completed Depth: 542

(Measurable)

Date: Started 09-16-98

Completed 09-23-98

13. DRILLER'S CERTIFICATION

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

Firm Name SOS Well Drilling & PumpingFirm No. 212

Firm Official _____

Date 3/24/99

Supervisor or Operator _____

(Sign once if Firm Official & Operator)

Date 3/24/99

Date: 03/24/99 Time: 12:30 PM

MICROFILMED

JUN 08 1999

WELL DRILLER REPORT CORRECTION

94797

THE WELL DRILLER'S REPORT SUBMITTED FOR THE WELL OWNED

BY: Jim Hise

HAS BEEN SUGGESTED BY THE FOLLOWING AGENCY OR PERSON SOS Well
Drilling

TO BE LOCATED IN A DIFFERENT LOCATION THAN WAS REPORTED ON THE ORIGINAL
WELL LOG. A MICROFICHE RECORD OF THE WELL LOG IS FILED IN:

TS 01S R 04E SEC 29 $\frac{1}{4}$ $\frac{1}{4}$ NW $\frac{1}{4}$ SW. THE LOCATION CHANGED TO:

TS 01S R 04E SEC 10 $\frac{1}{4}$ $\frac{1}{4}$ SE $\frac{1}{4}$ SE.

THE CORRECT LOCATION WAS VERIFIED BY: STATE OFFICE & SOS well
Drilling

THIS DOCUMENT HAS BEEN PREPARED ON THIS DATE 3-31-99 AND SENT TO BE
MICROFILMED.

MICROFILMED

JUN 08 1999

IDAHO DEPARTMENT OF WATER RESOURCES WELL DRILLER'S REPORT

66897

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

1. DRILLING PERMIT NO.

Other IDWR No. D0007514

2. OWNER:

Name Jim Hise

Address Mayfield Stage, HC-34

City Boise State ID Zip 83706

3. LOCATION OF WELL by legal description:

Sketch map location must agree with written location
N

W	E	S	Gov't lot	Twp. 1	North ☐	or	South ☒
				Rge. 4	East ☒	or	West ☐
				Sec. 29	1/4	NW 1/4	SW 1/4

Lat: _____ Long: _____

Address of Well Site Mayfield Stage, HC-34

City Boise

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

Lt. _____ Blk. _____ Sub. Name _____

4. USE:

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

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

☒ New Well ☐ Modify ☐ Abandonment ☐ Other

6. DRILL METHOD

☒ Air Rotary ☐ Cable ☐ Mud Rotary ☐ Other

7. SEALING PROCEDURES

SEAL/FILTER PACK		AMOUNT		METHOD
Material	From	To	Sacks or Pounds	
Bentonite	2'	40+'	16	Overbore

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

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

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
6"	+1'	541'	250	Steel	☒	☐	☒	☐
4.5"	532'	542'	Sc40	PVC	☐	☐	☐	☐

Length of Headpipe _____ Length of Tailpipe _____

9. PERFORATIONS/SCREENS

☒ Perforations Method saw
☐ Screens Screen Type _____

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
539'	542'		80	4.5"	PVC	☐	☐
						☐	☐

10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

350ft. below ground _____ Artesian Pressure _____ lb
Depth flow encountered _____ ft. Describe access port or control devices: _____

11. WELL TESTS:

Yield gal/min	Drawdown	Pumping Level	Time
10		400'	1hr
40		520'	1hr
50		540'	1hr

Water Temp. _____ Bottom hole temp. _____

Water Quality test or comments: _____

Depth first Water Encountered 358'

12. LITHOLOGIC LOG: (Describe repairs or abandonment)

Bore Dia	From	To	Remarks: Lithology, Water Quality & Temp.	Water	Y	N
10"	0'	1'	brown top soil			
10"	1'	2'	lt brown hardpan			
10"	2'	8'	coarse brown sand			
10"	8'	18'	brown sandy clay			
10"	18'	20'	coarse brown sand			
8"	20'	205'	brown clay/coarse sand strips			
8"	205'	225'	brown brown & black granite			
8"	225'	307'	brown & white granite			
8"	307'	328'	cemented quartz sand			
8"	328'	358'	white & clear granite			
8"	358'	396'	brown clay w/sand strips			
6"	396'	410'	coarse white & brown sand			
6"	410'	422'	brown clay			
6"	422'	432'	coarse white sand			
6"	432'	453'	lt brown clay w/small cracks			
6"	453'	464'	hard brown clay			
6"	464'	467'	coarse brown sand			
6"	467'	484'	lt brown sand w/sm. cracks			
6"	484'	501'	dirty brown sand w/clay strips			
6"	501'	532'	brown clay w/small cracks			
6"	532'	538'	grey clay w/grey sand			
6"	538'	542'	grey clay			
6"	542'	545'	blue/grey & white sand			

RECEIVED

RECEIVED

MICROFILMED DEC 14 1998

DEC 07 1998

IDAHO DEPARTMENT OF WATER RESOURCES
WATER RESOURCES
WESTERN REGION

Completed Depth: 542

(Measurable)

Date: Started 09-16-98

Completed 09-23-98

13. DRILLER'S CERTIFICATION

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

Firm Name SOS Well Drilling & Pumping

Firm No. 212

Firm Official _____

Date 12-2-98

Supervisor or Operator _____

(Sign once if Firm Official & Operator)

Date 12-4-98

Date: 12/03/98 Time: 12:56 PM

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.

[illegible]

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

56757

1. DRILLING PERMIT NO. 61-94-W-0027-000
Other IDWR No. _____

2. OWNER:

Name LEONARD EISEMAN
Address 802 East Pennsylvania Ave.
City Boise State ID Zip 83706

3. LOCATION OF WELL by legal description:

Sketch map location must agree with written location.


 Twp. 1 North ☐ or South ☒
 Rge. 4 East ☒ or West ☐
 Sec. 15 $\frac{1}{4}$ NE $\frac{1}{4}$ NR $\frac{1}{4}$
 Gov't Lot _____ County Elmore

Address of Well Site Sinco Rd.
City Mountain Home

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

U. Blk. Sub. Name

4. PROPOSED USE:

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

5. TYPE OF WORK

☒ New Well ☐ Modify or Repair ☐ Replacement ☐ Abandonment

DRILL METHOD

☐ Mud Rotary ☒ Air Rotary ☐ Cable ☐ Other _____

7. SEALING PROCEDURES

SEAL/FILTER PACK			AMOUNT	METHOD
Material	From	To	Gallons or Pounds	
Pentonite	0	250*	20	overcure

Was drive shoe used? ☒ Y ☐ N ☐ O

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

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Coating	Line	Welded	Threaded
8.625	0	250'	250	steel	☒	☒	☐	☐
6.625	2'	425'	250	steel	☒	☒	☐	☐
5.57	436'	448'	188	steel	☐	☒	☒	☒

Length of Headpipe 7' Length of Tailpipe 5'

9. PERFORATIONS/SCREENS

☐ Perforations Method _____

☒ Screens Screen Type **V-wire**

From	To	Shot Size	Number	Diameter	Material	Casing	Lines
453'	448'	.040		5.57	S.S.	☐	10
436'	431'	.030		5.57	S.S.	☐	20
						☐	

10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

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

11. WELL TESTS:

☐ Pump ☐ Bailer ☒ Air ☐ Flowing Artesian

Yield gal./min.	Drawdown	Pumping Level	Time
35			5hr.

Water Temp. _____ Bottom hole temp. _____

Water Quality test or comments:

12. LITHOLOGIC LOG: (Describe repairs or abandonment)

Bore Dia.	From	To	Remarks: Lithology, Water Quality & Temperature	Y	N
8"	0'	2'	Topsoil		
"	2'	11'	Brown Clay		
"	11'	18'	Sand & Gravel		
"	18'	21'	Brown Clay		
"	21'	43'	Sand & Gravel		
"	43'	65'	Clay w/Sand		
"	65'	80'	Coarse Sand		
"	80'	84'	Sandy clay		
"	84'	108'	Sand w/gravel		
"	108'	140'	Sandy clay		
"	140'	150'	Coarse sand		
"	150'	155'	Sand w/gravel		
"	155'	161'	Sandy clay		
"	161'	190'	Coarse sand w/clay		
"	190'	203'	Cemented sand & gravel		
"	203'	228'	Clay w/sand & gravel		
"	228'	240'	Coarse Sand		
"	240'	330'	Sandstone		
"	330'	340'	Coarse sand		
"	340'	356'	Brown clay		
"	356'	365'	Coarse sand		
"	365'	375'	Brown clay		
"	375'	386'	Coarse sand		
"	386'	409'	Clay w/sand seams		
"	409'	415'	Brown clay		
"	415'	428'	Coarse sand		X
"	428'	430'	Brown clay		
5"	430'	439'	Coarse sand		X
"	439'	441'	Brown clay		
"	441'	458'	Sand & Gravel		X
"	458'	467'	Brown clay		

Department of Water Resources

Completed Depth **458'** (Measurable)
Date: Started **June 11, 1994** Completed **June 26, '94**

13. DRILLER'S CERTIFICATION

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

Firm Name Riddleston & Son, Inc. Firm No. 35

Firm Official [Signature] Date 7/19/94

Supervisor or Operator _____ Date _____

(Sign once if Firm Official & Operator)

FORWARD WHITE COPY TO WATER RESOURCES

WELL DRILLER'S REPORT

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

19 (17)

1. WELL OWNER Name <u>El Paso Natural Gas</u> Address _____ Owner's Permit No. _____		7. WATER LEVEL Static water level <u>450</u> feet below land surface Flowing? ☐ Yes ☐ No G.P.M. flow _____ Temperature _____ ° F. Quality _____ Artesian closed-in pressure _____ p.s.i. Controlled by ☐ Valve ☐ Cap ☐ Plug																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
2. NATURE OF WORK <u>Armed Bed</u> ☒ New well ☐ Deepened ☐ Replacement ☐ Abandoned (describe method of abandoning) <u>Not a Water Well</u>		8. WELL TEST DATA ☐ Pump ☐ Sailer ☐ Other Discharge G.P.M. _____ Draw Down _____ Hours Pumped _____ <u>None</u> <u>Was not tested</u>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
3. PROPOSED USE ☐ Domestic ☐ Irrigation ☐ Test ☐ Municipal ☐ Industrial ☐ Stock <u>Not a Water Well</u>		9. LITHOLOGIC LOG 028863 <table border="1"><thead><tr><th rowspan="2">Hole Diam.</th><th colspan="2">Depth</th><th rowspan="2">Material</th><th colspan="2">Water</th></tr><tr><th>From</th><th>To</th><th>Yes</th><th>No</th></tr></thead><tbody><tr><td>12</td><td>0</td><td>8</td><td>Surface</td><td></td><td></td></tr><tr><td>12</td><td>8</td><td>114</td><td>Clay Fine gravel bed</td><td></td><td></td></tr><tr><td>12</td><td>114</td><td>118</td><td>Gravel</td><td></td><td></td></tr><tr><td>12</td><td>118</td><td>177</td><td>Black Basalt</td><td></td><td></td></tr><tr><td>12</td><td>177</td><td>187</td><td>Red Basalt</td><td></td><td></td></tr><tr><td>12</td><td>187</td><td>197</td><td>Gravel</td><td></td><td></td></tr><tr><td>12</td><td>197</td><td>223</td><td>Red Basalt</td><td></td><td></td></tr><tr><td>12</td><td>223</td><td>237</td><td>Red Basalt</td><td></td><td></td></tr><tr><td>12</td><td>237</td><td>277</td><td>Gravel bed</td><td></td><td></td></tr><tr><td>12</td><td>277</td><td>284</td><td>Clay gravel & sand</td><td></td><td></td></tr><tr><td>12</td><td>284</td><td>288</td><td>Gravel & sand</td><td></td><td></td></tr><tr><td>10</td><td>288</td><td>360</td><td>Upper clay & white sand</td><td></td><td></td></tr><tr><td>10</td><td>360</td><td>450</td><td>hard & dry</td><td></td><td></td></tr><tr><td>10</td><td>450</td><td>550</td><td>Water bearing</td><td></td><td></td></tr><tr><td>10</td><td>550</td><td>571</td><td>Clay with sand</td><td></td><td></td></tr><tr><td>10</td><td>571</td><td>580</td><td>hard gravelly</td><td></td><td></td></tr><tr><td>10</td><td>580</td><td>580</td><td>Water at 580?</td><td></td><td></td></tr><tr><td>10</td><td>580</td><td>580</td><td>Casing 5.50-5.58</td><td></td><td></td></tr><tr><td>10</td><td>580</td><td>580</td><td>Clay</td><td></td><td></td></tr><tr><td>10</td><td>580</td><td>580</td><td>Clay was 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IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

66557

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

1. DRILLING PERMIT NO. 61-97-W-0029-000

Other IDWR No. _____

2. OWNER:

Name Sherry Haug

Address 28901 HC 34

City Boise

State ID

Zip 83704

3. LOCATION OF WELL by legal description:

Sketch map location must agree with written location

N

W  E
Twp. 1 North ☐ or South ☒
Rge. 4 East ☒ or West ☐
Sec. 18 1/4 SE 1/4 SE 1/4
10 acres 10 acres 100 acres

Gov't lot _____ County Ada

Lat: _____ Long: _____

Address of Well Site E Orchard Access Rd.

City Mnt. Home/Bois

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

Lt. _____ Blk. _____ Sub. Name _____

4. USE:

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

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

- ☒ New Well ☐ Modify ☐ Abandonment ☐ Other

6. DRILL METHOD

- ☒ Air Rotary ☐ Cable ☐ Mud Rotary ☐ Other

7. SEALING PROCEDURES

SEAL/FILTER PACK		AMOUNT		METHOD
Material	From	To	Sacks or Pounds	
bentonite	0	520	65	overbore

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

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

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing Liner	Welded	Threaded
6"	+1	702	.250	steel	☒	☐	☐
					☐	☐	☐
					☐	☐	☐

Length of Headpipe _____ Length of Tailpipe _____

9. PERFORATIONS/SCREENS

- ☐ Perforations Method _____

- ☐ Screens Screen Type _____

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

10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

320 ft. below ground

Artesian Pressure _____ lb

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

11. WELL TESTS:

Yield gal/min.	Drawdown	Pumping Level	Time
15+		700'	5 hrs.

Water Temp. _____ Bottom hole temp. _____

Water Quality test or comments: _____

Depth first Water Encountered 530

12. LITHOLOGIC LOG: (Describe repair or abandonment).

Water	From	To	Remarks: Lithology, Water Quality & Temp.	Y	N
	0	3	brown top soil		
	3	5	brown clay		
	5	16	brown sand		
	16	73	brown clay w/strips coarse brn sand		
	73	116	coarse brown sand w/strips brn clay		
	116	121	black lava		
	121	125	black lava		
	125	127	brown clay		
	127	136	black lava		
	136	138	broken black lava		
	138	152	black lava		
	152	155	broken black lava		
	155	175	black lava		
	175	177	broken black lava		
	177	205	black lava		
	205	225	red/black lava		
	225	227	crack		
	227	245	lava		
	245	247	crack		
	247	280	broken lava		
	280	460	lava		
	460	475	solid lava		
	475	478	broken lava		
	478	512	solid lava		
	512	522	broken lava		
	522	525	white sand		
	525	546	white clay & sand		
	546	554	brown clay & sand		
	554	575	brown clay		
	575	609	med. white sand		

RECEIVED

AUG 15 1997

WATER RESOURCES
WESTERN REGION

RECEIVED

Completed Depth: 703 (Measurable)

Date: Started 06/12/97 Completed 07/09/97

13. DRILLER'S CERTIFICATION

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

Firm Name SOS Welldrilling & Pump Co

Firm No. 212

Firm Official Signed on pg. 2 Date _____

Supervisor or Operator Signed on pg. 3 Date _____
(Sign once if Firm Official & Operator)

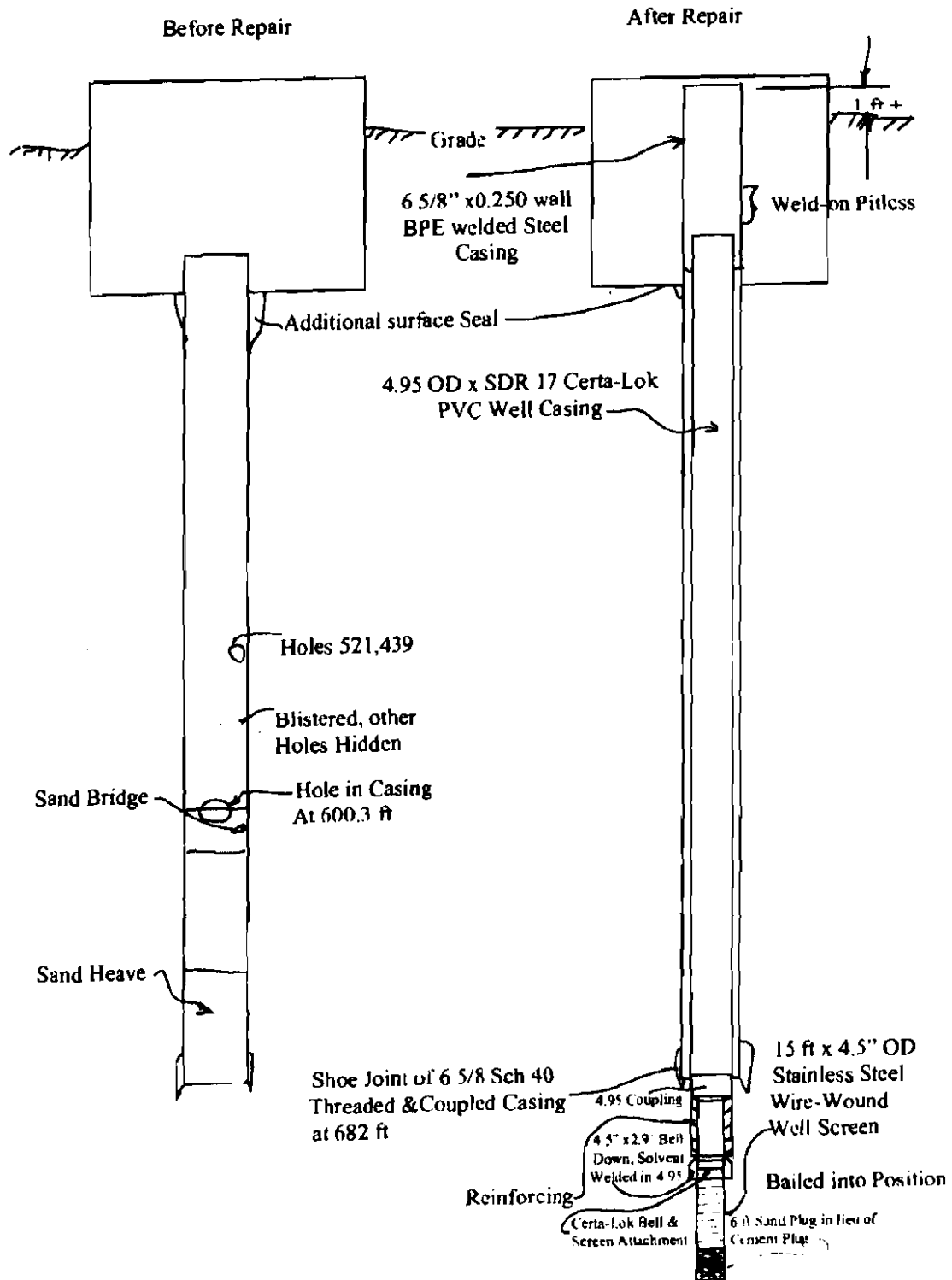
Date: 07/28/97 Time: 12:45 PM

850958

Answer 1	Notes
----------	-------

D0052733

As-Built Repair of John W. Clark Well--Old Kueneman Homesite
30221 Orchard Access Road--Orchard, Ada County



IDAHO DEPARTMENT OF WATER RESOURCES

WELL DRILLER'S REPORT --Page 1 of 2 Pages

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

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

2. OWNER:
 Name O. D. Kueneman
 Address Orchard Access Rd at Orchard Ranch Rd
 City Orchard State ID Zip _____

3. LOCATION OF WELL by legal description:
 You must provide address or Lot, Blk, Sub. or Directions to well.
 Twp. 1S North ☐ or South ☒
 Rge. 4E East ☒ or West ☐
 Sec. 20 NW 1/4 NW 1/4 NW 1/4 NW 1/4
 Gov't Lot _____ County _____
 Lot: _____ Long: _____
 Address of Well Site
 Orchard Access Rd @ Orchard Ranch Rd City Orchard
 (Check in top corner of tract - Otherwise in Block or Lot)
 Lt. _____ Blk. _____ Sub. Name _____

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

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

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

7. SEALING PROCEDURES

Seal Material	From	To	Weight / Volume	Seal Placement Method

Was drive shoe used? ☒ Y ☐ N Shoe Depth(s) 875.4 ft
 Was drive shoe seal tested? ☒ Y ☐ N How? Sealed in clay. Hole quit heaving.

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Line	Welded	Threaded
6 5/8	+1.0	875.4	0.280	Steel	☒	☐	☐	☒
					☐	☐	☐	☐
					☐	☐	☐	☐

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

9. PERFORATIONS/SCREENS PACKER TYPE

Perforation Method _____
 Screen Type & Method of Installation _____

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

10. FILTER PACK

Filter Material	From	To	Weight / Volume	Placement Method

11. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

557 ft. below ground Artesian pressure _____ lb./sq.in.
 Depth flow encountered _____ ft. Describe access port or control devices: _____
 Casing I.D. by removing well cap. _____

12. WELL TESTS:

Yield gal./min.	Drawdown	Pumping Level	Time
5	10 ft	567	

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

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

Box	From	To	Remarks: Lithology, Water Quality & Temperature	Y	N
12"	0	22			
10"	22	117			
8"	117	504			
6"	504	0+BH			
0	3	Topsoil			
3	30	Clay w/ some Gravel			
30	33	Rock			
33	46	Clay w/ some Gravel			
46	49	Rock			
49	68	Clay & Rock			
68	106	Clay & Gravel			
106	117	Gravel & Clay--Caves			
117	146	Basalt, Medium Hard, Grey			
146	146+	Crevice			
146	158	Basalt, Medium Hard, Grey			
158	203	Basalt, Very Hard Blue-Gray to Blue			
203	215	Red Rock			
215	227	Basalt, Medium Hard, Grey			
227	276	Red Rock			
276	286	Rock, Red & Grey			
286	296	Basalt, Medium Hard, Grey			
296	340	Clay, Red w/ Small Gravel			
340	455	Clay, Yellow w/ small Gravel			
455	473	Clay & Coarse Sand			
473	489	Basalt, Medium Hard, Grey			
489	489+	Cavern			
489	491	Basalt, Medium Hard, Grey			
491	503	Basalt, Porous			
503	504	Clay & Sand- Hole Swells Shut			
504	532	Basalt, Medium Hard, Grey			
532	560	Clay			
560	566	Sand, very fine, Water & Clay, raises 25' caves		x	
566	575	Clay			x
Completed Depth 582 ft (Measurable)					
Date: Started October 30, 1950 Completed January 26, 1951					

14. DRILLER'S CERTIFICATION

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

Company Name Harden & Co. Firm No. 1

Principal Driller Harvey Stone Date Jan 26, 1951

and
 Driller or Operator II Harvey Stone Date Jan 26, 1951

Operator I (excepted by Hugh Harden) Date Mar 9, 2008

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

FORWARD WHITE COPY TO WATER RESOURCES

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

771187

X			

(Sign once if Firm Official or Operator)

IDAHO DEPARTMENT OF WATER RESOURCES WELL DRILLER'S REPORT

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

771187

1. DRILLING PERMIT NO. _____

Other IDWR No. D0018592

2. OWNER:

Name Linda McFain

Address 250 S. Bobwhite Ct., Ste #350

City Boise State ID _____ Zip 83706

3. LOCATION OF WELL by legal description:

Sketch map location must agree with written location

N

W	X	E	Twp. <u>1</u> North ☐ or South <u>X</u>
			Rge. <u>4</u> East <u>X</u> or West ☐
S	X	E	Sec. <u>20</u> 1/4 SW 1/4 NW 1/4
			10 acres 40 acres 160 acres

Gov't lot _____ County Ada

Lat: _____ Long: _____

Address of Well Site 30000 Orchard Access Rd

City Boise

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

Lt. _____ Blk. _____ Sub. Name _____

4. USE:

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

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

☒ New Well ☐ Modify ☐ Abandonment ☐ Other _____

6. DRILL METHOD

☒ Air Rotary ☐ Cable ☐ Mud Rotary ☐ Other _____

7. SEALING PROCEDURES

SEAL/FILTER PACK		AMOUNT		METHOD
Material	From	To	Sacks or Pounds	
Bentonite	0	120	40scks	overbore

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

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

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
8.625	+1	120	332	Steel	☒	☐	☐	☐
6.625	+2	736	250	Steel	☒	☐	☐	☐

Length of Headpipe _____ Length of Tailpipe _____

9. PERFORATIONS/SCREENS

☐ Perforations Method _____
☐ Screens Screen Type _____

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

10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

505ft. below ground Artesian Pressure _____ lb

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

11. WELL TESTS:

☐ Pump ☐ Bailor ☒ Air ☐ Flowing Artesian

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

Water Temp. _____ Bottom hole temp. _____

Water Quality test or comments: _____

Depth first Water Encountered 610'

12. LITHOLOGIC LOG: (Describe repairs or abandonment)

Bore Dia	From	To	Remarks: Lithology, Water Quality & Temp.	Water	Y	N
10	0	2	Topsoil		X	
10	2	60	Sand & gravel		X	
10	60	65	Brown clay		X	
10	65	89	Sand & gravel		X	
10	89	93	Brown clay		X	
10	93	120	Sand & gravel		X	
10	120	300	Gray lava		X	
8	300	320	Red sandstone		X	
8	320	340	Coarse sand		X	
8	340	400	Fine sand		X	
8	400	580	Gray lava		X	
6	580	610	Brown clay		X	
6	610	680	Fine sand	X		
6	680	684	Brown clay		X	
6	684	715	Coarse sand		X	
6	715	718	Brown clay		X	
6	718	730	Coarse sand		X	
6	730	736	Brown clay		X	
6	736	745	Sand, coarse	X		

RECEIVED

NOV 14 2001

WATER RESOURCES
WESTERN REGION

Completed Depth: 736' (Measurable)

Date: Started 09/20/01 Completed 10/05/01

13. DRILLER'S CERTIFICATION

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

Firm Name Hiddleston & Son, Inc - Boise Firm No. 35

Firm Official [Signature] Date 11/12/01

Supervisor or Operator [Signature] Date 11/12/01

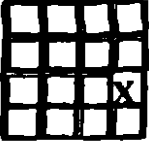
(Sign once if Firm Official & Operator)

778010

IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

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

1. DRILLING PERMIT NO. _____
Other IDWR No. D0025092
2. OWNER:
Name Mike Eisman
Address 2988 S. Owyhee
City Boise State ID Zip 83705
3. LOCATION OF WELL by legal description:
Sketch map location must agree with written location
N

W  E
Twp. 1 North ☐ or South ☒
Rge. 4 East ☒ or West ☐
Sec. 22 1/4 NE 1/4 SE 1/4
Gov't lot _____ County Elmore

Lat: _____ Long: _____
Address of Well Site 1639 S. Simco Rd.
City Boise
(Give at least name of road + Distance to Road or Landmark)
Lt. _____ Blk. _____ Sub. Name _____

4. USE:
☒ Domestic ☐ Municipal ☐ Monitor ☐ Irrigation
☐ Thermal ☐ Injection ☐ Other _____
5. TYPE OF WORK check all that apply (Replacement etc.)
☒ New Well ☐ Modify ☐ Abandonment ☐ Other _____
6. DRILL METHOD
☒ Air Rotary ☐ Cable ☐ Mud Rotary ☐ Other _____

7. SEALING PROCEDURES				
SEAL/FILTER PACK			AMOUNT	METHOD
Material	From	To	Sacks or Pounds	
Bentonite	0	18	500 lbs	Overhead

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

8. CASING/LINER:

Diameter	From To	Gauge	Material	Casing	Liner	Welded	Threaded
6.625	+1 625	250	Steel	☒	☐	☒	☐
8"	+1 175	322	Steel	☒	☐	☒	☐

Length of Headpipe _____ Length of Tailpipe _____

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

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
625	635	.025		5"	SS	☐	☐
						☐	☐

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

11. WELL TESTS:

Yield gal/min	Drawdown	Pumping Level	Time
40			2 hrs.

Water Temp. 63 degrees Bottom hole temp. _____
Water Quality test or comments: _____
Depth first Water Encountered _____

12. LITHOLOGIC LOG: (Describe repair or abandonment)

Bore Dia	From	To	Remarks: Lithology, Water Quality & Temp.	Y	N
12"	0	2	Top Soil		☒
12"	2'	7'	Clasche		☒
12"	7'	18'	Sand & Brown Clay		☒
8"	18'	70'	Tan Sand		☒
8"	70'	80'	Brown Clay		☒
8"	80'	130'	Coarse Sand		☒
8"	130'	134'	Brown Clay		☒
8"	134'	150'	Gray Lava		☒
8"	150'	155'	Brown Coarse Sand		☒
8"	155'	174'	Brown Clay		☒
8"	174'	230'	Gray Lava		☒
6"	230'	240'	Reddish Brown Clinders		☒
6"	240'	350'	Coarse Tan Sand		☒
6"	350	351	Tan Clay		☒
6"	351	396	Decomposed Granite		☒
6"	396	760	Brown Sandstone		☒
6"	460'	570'	Brown Clay		☒
6"	570'	600'	Brown Clay w/ Sand Seams	☒	
6"	600'	640'	Coarse Tan Sand	☒	

RECEIVED

JUL 24 2002

WATER RESOURCES
WESTERN REGION

Completed Depth: 640' (Measurable)
Date: Started 6-19-02 Completed 6-20-02

13. DRILLER'S CERTIFICATION

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

Firm Name Hiddleston & Son, Inc. Firm No. 35

Firm Official [Signature] Date 2-16-00

Supervisor or Operator [Signature] Date 7/16/02
(Sign once if Firm Official & Operator)

3

869262-771970

Form 238-7
3/95-C96

IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

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

1. DRILLING PERMIT NO. _____
Other IDWR No. D0019345 CP5N1635

2. OWNER:
Name Williams Pipeline West
Address 5821 Industrial Way
City American Falls State ID Zip 83202

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

W

X		

 E

 Twp. 1 North or South X
Rge 4 East X or West
Sec. 23 1/4 SW/4 NW 1/4
Gov't lot _____ County Elmore

Lat: _____ Long: _____
Address of Well Site 3 miles South on Simco Rd.
City Mtn Home
(Give in front of road & distance to Road or Landmark)
Lt. _____ Blk. _____ Sub. Name _____

4. USE:
☐ Domestic ☐ Municipal ☐ Monitor ☐ Irrigation
☐ Thermal ☐ Injection ☒ Other Cathodic
5. TYPE OF WORK check all that apply (Replacement etc.)
☒ New Well ☐ Modify ☐ Abandonment ☐ Other _____

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

SEAL/FILTER PACK		AMOUNT		METHOD
Material	From	To	Sacks or Pounds	
Bentonite	0	18	1200 lbs	Overbore

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

Diameter	From	To	Quantity	Material	Casing	Liner	Welded	Threaded
8.625	+2	55	250	PVC	X		X	
8.625	-50	500	362	Steel	X		X	

Length of Headpipe _____ Length of Tailpipe _____

9. PERFORATIONS/SCREENS						
☐ Perforations		Method _____				
☐ Screens		Screen Type _____				
From	To	Slot Size	Number	Diameter	Material	Casing

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

11. WELL TESTS:

Yield gal/min	Drawdown	Pumping Level	Time
N/A			

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

12. LITHOLOGIC LOG: (Describe repair or abandonment)

Bore Dia	From	To	Remarks: Lithology, Water Quality & Temp.	Y	N
12	0	2	Top Soil		X
12-10	2	152	Sand & Gravel		X
10	152	175	Gray Lava		X
10	175	195	Sand & Red Clinder		X
10	195	228	Gray Lava		X
10	228	300	Tan Sand		X
10	300	321	Tan Clay		X
10	321	340	Tan Sand		X
10	340	345	Tan Clay		X
10	345	400	Tan Sand & Gravel		X
10	400	422	Tan Clay		X
10	422	492	Tan Sand		X
10	492	500	Tan Sand		X

RECEIVED

NOV 26 2001

WATER RESOURCES
WESTERN REGION

Completed Depth: 500' (Measurable)
Date: Started 10-26-01 Completed 10-30-01

13. DRILLER'S CERTIFICATION

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

Firm Name Hiddleston & Son, Inc. Firm No. 35
Firm Office [Signature] Date 11-19-01
Supervisor or Operator [Signature] Date 11/16/01
(Sign once if Firm Official & Operator)

23

USE TYPEWRITER
BALL POINT PEN

State of Idaho
Department of Water Administration

WELL DRILLER'S REPORT

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

WELL OWNER

Name Western Land State
Address Mayfield Western Land
Owner's Permit No. & Cattle

7. WATER LEVEL

Static water level 4.5 feet below land surface
Flowing? ☐ Yes ☒ No G.P.M. flow _____
Temperature _____ ° F. Quality _____
Artesian closed-in pressure _____ p.s.i.
Controlled by ☐ Valve ☐ Cap ☐ Plug

2. NATURE OF WORK

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

8. WELL TEST DATA

☒ Pump ☐ Bailor ☐ Other

Discharge G.P.M. Draw Down Hours Pumped

3.5 10.5 1.5

3. PROPOSED USE

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

4. METHOD DRILLED

☒ Cable ☐ Rotary ☐ Dug ☐ Other

5. WELL CONSTRUCTION

Diameter of hole 10 inches Total depth 17.5 feet

Casing schedule: ☒ Steel ☐ Concrete

Thickness	Diameter	From	To
<u>1/4</u> inches	<u>10</u> inches	<u>0</u> feet	<u>1.0</u> feet
<u>1/4</u> inches	<u>10</u> inches	<u>1.0</u> feet	<u>16.5</u> feet
<u>1/4</u> inches	<u>10</u> inches	<u>16.5</u> feet	<u>17.5</u> feet
<u>1/4</u> inches	<u>10</u> inches	<u>17.5</u> feet	<u>17.5</u> feet

Was a packer or seal used? ☐ Yes ☒ No
Perforated? ☒ Yes ☐ No
How perforated? ☒ Factory ☐ Knife ☐ Torch
Size of perforation 1/8 inches by 3 inches

Number	From	To
<u>1</u> perforations	<u>1.0</u> feet	<u>1.0</u> feet
<u>1</u> perforations	<u>1.0</u> feet	<u>16.5</u> feet
<u>1</u> perforations	<u>16.5</u> feet	<u>17.5</u> feet

Well screen installed? ☐ Yes ☒ No

Manufacturer's name _____

Type _____ Model No. _____

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

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

Gravel packed? ☒ Yes ☐ No Size of gravel 3/16

Placed from 0 feet to 17.5 feet

Surface seal depth 20 Material used in seal ☐ Cement grout

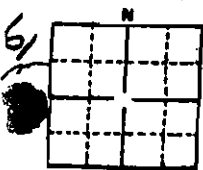
☒ Pudding clay ☐ Well cuttings

Sealing procedure used ☐ Slurry pit ☐ Temporary surface casing

☒ Overbars to seal depth

6. LOCATION OF WELL

Sketch map location must agree with written location.



Subdivision Name _____

Lot No. _____ Block No. _____

County Elmore

10.

Work started Jan 24 finished Feb 74

11. DRILLER'S CERTIFICATION

Firm Name USGS Firm No. 68

Address Mayfield Date _____

Signed by (Firm Official) Russell Carey

and David Nailon

(Operator)

MICROFILMED

IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

721965 27

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

1. WELL TAG NO. D 0012473

DRILLING PERMIT NO. _____

Other IDWR No. _____

2. OWNER:

Name Dan Holiday

Address 2215 Scyene Way

City Boise State ID Zip 83712

3. LOCATION OF WELL by legal description:

Sketch map location must agree with written location.

Map grid showing Township 1 North, Range 4 East, Section 28. Well location marked at SW 1/4, SW 1/4, SW 1/4.

Twp. 1 North ☐ or South ☒
Rge. 4 East ☒ or West ☐
Sec. 28 1/4 SW 1/4 SW 1/4
Gov't Lot _____ County Ada 10 acres
Lat _____ Long _____

Address of Well Site Exit 184, 5 m. s on

Orchard, 2.5 m. SE to 15222 Monroe City Boise

Lt. _____ Bkt. _____ Sub. Name _____

4. USE:

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

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

☒ New Well ☐ Modify ☐ Abandonment ☐ Other _____

6. DRILL METHOD:

☒ Air Rotary ☐ Cable ☐ Mud Rotary ☐ Other _____

7. SEALING PROCEDURES:

Seal/Filter Pack			AMOUNT	METHOD
Material	From	To	Sacks or Pounds	
Bentonite	0	20	400 lbs	Pour

Was drive shoe used? ☒ Y ☐ N Shoe Depth(s) 800

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

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
6	+2	800	250	Steel	☒	☐	☒	☐
4.5	580	662	250	PVC	☐	☒	☒	☐

Length of Headpipe _____ Length of Tailpipe _____

9. PERFORATIONS/SCREENS:

☒ Perforations Method _____
☐ Screens Screen Type _____

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
800	660	1/4	100	4.5	PVC	☐	☒

10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

450 ft. below ground Artesian pressure _____ lb.
Depth flow encountered 800-660 ft. Describe access port or control device: Cap

11. WELL TESTS:

☐ Pump ☐ Bailor ☒ Air ☐ Flowing Artesian

Yield gal./min.	Drawdown	Pumping Level	Time
50	800	600	4 hours

Water Temp. _____ Bottom hole temp. _____

Water Quality test or comments: _____

Depth first Water Encounter 460

12. LITHOLOGIC LOG: (Describe repairs or abandonment)

Bore Dia.	From	To	Remarks: Lithology, Water Quality & Temperature	Water
10	0	4	Top Soil	
10	4	165	Sand & clay strips	
8	165	335	Lava	
8	335	350	Cinders & gravel	
8	350	405	Lava	
8	405	410	Broken lava	
8	410	430	Lava	
8	430	440	Broken lava	
8	440	460	Lava	
8	460		Brown clay & sandstone	
			625 strips	X
6	625	650	Lava	X
6	650	656	Brown clay	
6	656	660	Sand & pea gravel	X

Thinking e-business?

Kathy, I had the well location

Completely wrong on this well - I was over the county line on the east instead of west. So this

Think is the correct legal - Thanks, China AS/400

RECEI

MAR 7

Department of Water

13. DRILLER'S CERTIFICATION:

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

Company Name Treasure Valley Drilling Firm No. 560

Firm Official [Signature] Date 12/7/99

Driller or Operator [Signature] Date 12/7/99

(Sign once if Firm Official & Operator)

IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

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

1. WELL TAG NO. D 0012473

DRILLING PERMIT NO. 601-99-W-0069-000

Other IDWR No. _____

2. OWNER:

Name Dan Holiday

Address 2215 Steinway

City Boise State ID Zip 83712

3. LOCATION OF WELL by legal description:

Sketch map location must agree with written location.

Map grid showing Township 2 North, Range 4 East, Section 1 SW 1/4, SW 1/4, SW 1/4. County Elmore. Address of Well Site Exit off I-84, 4 m. S

on Simco 1 m. SE on Simco Cutoff City Mountain Home

Lt. _____ Blk. _____ Sub. Name _____

4. USE:

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

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

☒ New Well ☐ Modify ☐ Abandonment ☐ Other

6. DRILL METHOD:

☒ Air Rotary ☐ Cable ☐ Mud Rotary ☐ Other

7. SEALING PROCEDURES:

Seal/Filter Pack		AMOUNT		METHOD
Material	From To	Sections or Pounds		
Bentonite	0 20	400 lbs	Pour	

Was drive shoe used? ☒ Y ☐ N Shoe Depth(s) 600

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

8. CASING/LINER:

Diameter	From To	Gauge	Material	Casing	Liner	Welded	Threaded
6	+2 600	250	Steel	☒	☐	☒	☐
4.5	580 662	250	PVC	☐	☒	☒	☐

Length of Headpipe _____ Length of Tailpipe _____

9. PERFORATIONS/SCREENS:

☒ Perforations ☐ Screens Method _____ Screen Type _____

From To	Slot Size	Number	Diameter	Material	Casing	Liner
600 660	1/4	100	4.5	PVC	☐	☒

10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

450 ft. below ground Artesian pressure _____ lb.

Depth flow encountered 600-660 ft. Describe access port or control

devices: Cap

11. WELL TESTS:

Yield gal./min.	Drawdown	Pumping Level	Time
50	600	600	4 hours

Water Temp. _____ Bottom hole temp. _____

Water Quality test or comments: _____

Depth first Water Encounter 460

12. LITHOLOGIC LOG: (Describe repairs or abandonment)

Core Dia.	From To	Remarks: Lithology, Water Quality & Temperature	Water
10	0 4	Top Soil	
10	4 165	Sand & clay strips	
8	165 335	Lava	
8	335 350	Cinders & gravel	
8	350 405	Lava	
8	405 410	Broken lava	
8	410 430	Lava	
8	430 440	Broken lava	
8	440 460	Lava	
8	460	Brown clay & sandstone	
		625 strips	X
6	625 650	Lava	X
6	650 656	Brown clay	
6	656 660	Sand & pea gravel	X

RECEIVED

DEC 20 1999

Department of Water Resources

RECEIVED

DEC 09 1999

WATER RESOURCES
WESTERN REGION

Completed Depth 662 (Measurable)
Date: Started 11/15/99 Completed 11/19/99

13. DRILLER'S CERTIFICATION:

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

Company Name Treasure Valley Drilling Firm No. 560

Firm Official [Signature] Date 12/7/99

and Driller or Operator [Signature] Date 12/7/99

(Sign once if Firm Official & Operator)

FORWARD WHITE COPY TO WATER RESOURCES

IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

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

1. WELL TAG NO. D 0025130

DRILLING PERMIT NO. _____

Other IDWR No. _____

2. OWNER:

Name Glora Gangler

Address 14800 E Monroe Dr.

City Boise

State ID Zip 83716

3. LOCATION OF WELL by legal description:

Sketch map location must agree with written location.

Map grid showing well location. Township 1 North ☐ or South ☒ Range 4 East ☒ or West ☐ Section 29 1/4 NE 1/4 SW 1/4
Gov't Lot _____ County Ada 10 acres 20 acres 160 acres
Lat _____ Long _____
Address of Well Site 14800 E Monroe

City Boise

(Circle at least two of road, distance to road or landmark)

LL _____ Bkr _____ Sub. Name _____

4. USE:

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

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

☒ New Well ☐ Modify ☐ Abandonment ☐ Other _____

6. DRILL METHOD:

☒ Air Rotary ☐ Cable ☐ Mud Rotary ☐ Other _____

7. SEALING PROCEDURES:

Seal/Filler Pack			AMOUNT	METHOD
Material	From	To	Sealant/Pack	
Bentonite	0	38	1000	overbore

Was drive shoe used? ☒ Y ☐ N Shoe Depth(s) 572

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

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
6	+2	572	.250	steel	☒	☐	☒	☐
					☐	☐	☐	☐
					☐	☐	☐	☐

Length of Headpipe _____

Length of Tailpipe _____

9. PERFORATIONS/SCREENS:

☐ Perforations

Method _____

☐ Screens

Screen Type _____

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

11. WELL TESTS:

☐ Pump ☐ Bailor ☒ Air ☐ Flowing Artesian

Yield gal/min.	Drawdown	Pumping Level	Time
35	580	580	1 hr

Water Temp. 58

Bottom hole temp. 58

Water Quality test or comments: _____

Depth first Water Encounter 580

12. LITHOLOGIC LOG: (Describe repairs or abandonment)

Bore Dia.	From	To	Remarks: Lithology, Water Quality & Temperature	Water
				Y N
10	0	4	Top Soil	
10	4	38	Brown Clay	
8	38	170	Brown Clay	
8	170	410	Lava	
8	410	490	Clay	
8	490	493	Lava	
6	493	500	Clay Brown	
6	500	551	Sand Stone	X
6	551	570	Brown Clay	
6	570	600	Lava Broken	X
6	600		Sand	X

RECEIVED

JUL 11 2002

WATER RESOURCES
WESTERN REGION

Completed Depth 600

(Measurable)

Date: Started 6/28/2002

Completed 7/2/2002

13. DRILLER'S CERTIFICATION:

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

Company Name Treasure Valley Drilling

Firm No. 580

Firm Official

Date 7/2/2002

and

Driller or Operator

Date 7/2/2002

(Sign once if Firm Official & Operator)

10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

477 ft. below ground

Artesian pressure _____ lb.

Depth flow encountered 600 ft. Describe access port or control

devices: cap

SCANNED

Form 238-7
(197)

OCT 17 2002

IDAHO DEPARTMENT OF WATER RESOURCES

WELL DRILLER'S REPORT

Page 1 of 2 Pages

1. WELL TAG NO. D 0019724

DRILLING PERMIT NO. _____

Other IDWR No. _____

2. OWNER:

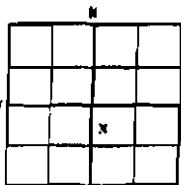
Name Kenneth W. Lange

Address 15888 E. Monroe Ave. HC34

City Boise State ID Zip 83716

3. LOCATION OF WELL by legal description:

Sketch map location must agree with written location.



Twp. 1 S. North or South ☐
 Rge. 4 E. East or West ☐
 Sec. 29 SW 1/4 NW 1/4 SE 1/4
 Gov't Lot _____ County Elmore
 Lat _____ Long _____

Address of Well Site 15888 E. Monroe Ave. 1 mile SE of

Orchard 3 town Site (NE Side of RR tracks)

City Orchard

LI. _____ Bk. _____ Sub. Name _____

RECEIVED

4. USE:

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

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

☐ New Well ☐ Modify ☐ Abandonment ☐ Other _____

6. DRILL METHOD

☐ Air Rotary ☒ Cable ☐ Mud Rotary ☐ Other _____

7. SEALING PROCEDURES

SEAL/RTER PACK	From	To	AMOUNT	METHOD
Material			Sacks or Pounds	
Bentonite &	4	168.6	550 lb	Open hole maintained
Naive clays	4	168.6	270 lb	with slurry—overlure—
				Casing Run into full hole

Was drive shoe used? ☒ Y ☐ N Shoe Depth(s) 168.6
 Was drive shoe seal tested? ☒ Y ☐ N How? Slurry did not leak into well

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
8 5/8	+ 1.4	168.6	0.250	Steel	☒	☐	☐	☐
6 3/8	+ 1.75	583.0	0.250	Steel	☒	☐	☐	☐
5 9/16	537.1	574.17	0.188	Steel Lap pipe	☐	☒	☐	☐
5 9/16	574.17	608.28	0.250	Steel	☐	☐	☐	☐

Length of Headpipe 71.18 ft Length of Tailpipe 0.97

9. PERFORATIONS/SCREENS

Perforations

Method

Screens

Screen Type Continuous Slot Wire Wound

From	To	Slot Size	Number	Diameter	Material	Casing	Liner	Assbly
608.28	618.53	0.025 inch	5	9/16	Stainless	☐	☒	☐

10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

485.0 ft. below ground Artesian pressure _____ lb.

Depth flow encountered _____ ft. Describe access port or control devices: 6" I.D. of casing by removing well cap.

11. WELL TESTS:

☒ Pump ☐ Bailor

Office Use Only

Inspected by _____

Twp _____

Rge _____

Sec _____

1/4 _____

1/4 _____

1/4 _____

Lat _____

Long _____

☐ Air ☐ Flowing Artesian

Yield gal./min.	Drawdown	Pumping Level	Time
13.0	1.2 ft	486.2	4.5 hours

Water Temp. _____

Excellent

Bottom hole temp. _____

Water Quality test or comments: _____

Depth first Water Encounter 526

12. LITHOLOGIC LOG: (Describe repairs or abandonment)

Water

Bore Dia	From	To	Remarks: Lithology, Water Quality & Temperature	Y	N
10	0	175 ft			N
8	175	426 ft			N
6	426	620 ft			N
	0	78	Sandy Clays & Clayey Sands, Tan		N
	78	80	Sand, Caving, Tan		
	80	88	Silty Sand, Tan		
	88	118	Sand, Caving, Tan		N
	118	119	Boulder and Sand		
	119	171	Silty Sand & Sandy Silt Layers, Tan		
	171	173	Sand, Caving, Tan		
	173	175	Silty Sand, Tan		
	175	178	Basalt, Grey		N
	178	179	Boulder		
	179	196	Basalt, Hard, Grey		
	196	197	Basalt, Soft, Grey		
	197	206	Basalt, Medium Hard, Grey		N
	206	209	Basalt, Very Hard, Creviced, w/Cinders		
	209	227	Rubble w/ Cinders, Grey		
	227	252	Basalt, Very Hard, Grey		
	252	253	Basalt, Broken, Soft, Reddish-Brown		N
	253	262	Basalt, Medium Hard, Brown		
	262	266	Rubble, w/ Cinders, Medium Hard, Brown		
	266	267	Basalt, Fractured, Brown		
	267	282	Basalt, Medium Hard, Grey		N
	282	282.3	Basalt, Fractured, Grey		
	282.3	288	Basalt, Hard, Grey		
	288	292	Basalt Boulders, Grey		
	292	322	Basalt, Very Hard, Grey		N
	322	326	Rubble, w/ Cinders		
	326	331	Basalt, Medium Hard, Grey		
	331	334	Basalt, Creviced, w/Cinders, Grey		
	331	334	Basalt, Creviced, w/ Cinders		N
	334	336	Clay, Red Burnt		

Completed Depth 619.5 ft (Measurable)

Date: Started March 11, 2002 Completed Sept. 3, 2002

13. DRILLER'S CERTIFICATION

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

Company Name Artesian Co.

Firm No. 318

Firm Official

Hugh Harden

Date

10/8/02

and

Driller or Operator

Hugh Harden

Date

October 8, 2002

IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT
Page 2 of 2 Pages

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

1. WELL TAG NO. D 0019724
DRILLING PERMIT NO. _____
Other IDWR No. _____

2. OWNER:
Name Kenneth W. Lange
Address 15888 E. Monroe Ave. — HC34
City Boise State ID 83716

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

Tw. 1 S. North or South
Rge. 4 E. East or West
Sec. 29 SW 1/4 NW 1/4 SE 1/4
Gov't Lot _____ County Elmore
Lat _____ Long _____

Address of Well Site 15888 E. Monroe Ave. — 1 mile SE of
Orchard Town Site (NE Side of RR tracks) City Orchard

Li. _____ Bk. _____ Sub. _____ Name _____

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

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

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

7. SEALING PROCEDURES

SEAL-ENTER PACK	AMOUNT	METHOD
Material: From To	Sacks or Pounds	
Bentonite & Naive clays 4 168.6	550 lb	Open hole maintained
4 168.6	2700 lb	with slurry — overbore — Casing Run into full hole

Was drive shoe used? ☒ Y ☐ N Shoe Depth(s) 168.6
Was drive shoe seal tested? ☒ Y ☐ N How? Slurry did not leak into well

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Linear	Welded	Threaded
8 5/8	+ 1.4	168.6	0.250	Steel	☒ X			
6 3/8	+ 1.75	363.0	0.250	Steel	☒ X			
5 9/16	537.1	574.47	0.188	Steel Lap pipe		☒ X		
5 1/16	574.17	608.28	0.175	Steel		☒ X		

Length of Headpipe 71.18 ft Length of Tailpipe 0.97

9. PERFORATIONS/SCREENS

From	To	Slot Size	Number	Diameter	Material	Casing	Linear	Assbly
608.28	618.53	0.025 in		5 9/16	Stainless			☒ X

10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:
485.0 ft. below ground Artesian pressure _____ lb.
Depth flow encountered _____ ft. Describe access port or control devices: 6" ID of casing by removing well cap.

11. WELL TESTS:

Yield gal. min.	Drawdown	Pumping Level	Time
13.0	1.2 ft	486.2	4.5 hours

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

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

Bore Dia	From	To	Remarks: Lithology, Water Quality & Temperature	Y	N
10	0	175 ft			N
8	175	426 ft			N
6	426	620 ft		Y	N
	336	357	Sands and Silts, Caving, Tan		N
	357	386	Basalt, Medium Hard, Grey		N
	386	401	Granitic Sand and Clay, Red Brown		N
	401	424	Basalt, Medium Hard, Grey		N
	424	523	Sandy Silts & Silty Sands, Brown-Tan		N
	523	526	Clay, Gravelly & Sandy, Brown		N
	526	532	Sand, Clayey, Brown	Y	
	532	534	Clay, Gravelly, Grey		N
	534	537	Clay, Gravelly, Brown		N
	537	547	Sand, Clayey, Brown	Y	
	547	562.5	Sandy Silts & Silty Sands, Brown	Y	N
	562.5	588	Basalt, Brown		N
	588	597	Cinders, Sand, then Clay, Brown	Y	
	597	609	Clay, Gravelly, Brown		N
	609	619	Sand, Coarse, Poorly Sorted	Y	
	619	619.5	Clay, Brown		N

RECEIVED

OCT 10 2002

WATER RESOURCES
WESTERN REGION

RECEIVED

OCT 18 2002

Department of Water Resources

Completed Depth 619.5 ft (Measurable)
Date: Started March 11, 2002 Completed Sept. 3, 2002

13. DRILLER'S CERTIFICATION

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

Company Name Artesian Co. Firm No. 318
Firm Official Hugh Harden Date 10/8/02
and Hugh Harden Date October 8, 2002
Driller or Operator _____ Date _____

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORTRECEIVED
NOV 21 1991
DEPARTMENT OF WATER RESOURCES
WESTERN REGIONAL OFFICEState law requires that this report be filed with the Director, Department of Water Resources, 1992
within 30 days after the completion or abandonment of the well.

R-2

1. WELL OWNER Name <u>Mark Miller</u> Address <u>PO Box 7275, Boise, ID 83707</u> Drilling Permit No. <u>61-91-6-053-NO</u> Water Right Permit No. _____		7. WATER LEVEL Department of Water Resources Western Regional Office Static water level <u>500</u> feet below land surface. Flowing? ☐ Yes ☒ No G.P.M. flow _____ Artesian closed-in pressure _____ p.s.i. Controlled by: ☐ Valve ☐ Cap ☐ Plug Temperature _____ OF. Quality _____ Describe artesian or temperature zones below.																																																																																																																									
2. NATURE OF WORK ☒ New well ☐ Deepened ☐ Replacement ☐ Well diameter increase ☐ Abandoned (describe abandonment procedures such as materials, plug depths, etc. in lithologic log)		8. WELL TEST DATA ☐ Pump ☐ Bailor ☒ Air ☐ Other _____ <table border="1"><thead><tr><th>Discharge G.P.M.</th><th>Pumping Level</th><th>Hours Pumped</th></tr></thead><tbody><tr><td>15</td><td></td><td>3</td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr></tbody></table>		Discharge G.P.M.	Pumping Level	Hours Pumped	15		3																																																																																																																		
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3. PROPOSED USE ☒ Domestic ☐ Irrigation ☐ Test ☐ Municipal ☐ Industrial ☐ Stock ☐ Waste Disposal or Injection ☐ Other _____ (specify type)		9. LITHOLOGIC LOG 89193 <table border="1"><thead><tr><th>Bore Diam.</th><th>Depth From</th><th>To</th><th>Material</th><th>Water Yes No</th></tr></thead><tbody><tr><td>10</td><td>0</td><td>2</td><td>Top soil</td><td></td></tr><tr><td>"</td><td>2</td><td>110</td><td>Sand-clay</td><td></td></tr><tr><td>10</td><td>110</td><td>136</td><td>Gray lava</td><td></td></tr><tr><td>8</td><td>136</td><td>295</td><td>Gray lava</td><td></td></tr><tr><td>"</td><td>295</td><td>308</td><td>Brown lava & water fair</td><td></td></tr><tr><td>"</td><td>308</td><td>321</td><td>Gray lava</td><td></td></tr><tr><td>"</td><td>321</td><td>333</td><td>Brown lava</td><td></td></tr><tr><td>"</td><td>333</td><td>350</td><td>Gray lava</td><td></td></tr><tr><td>"</td><td>350</td><td>354</td><td>Brown lava</td><td></td></tr><tr><td>"</td><td>354</td><td>400</td><td>Gray lava</td><td></td></tr><tr><td>"</td><td>400</td><td>410</td><td>Brown lava</td><td></td></tr><tr><td>"</td><td>410</td><td>438</td><td>Gray lava</td><td></td></tr><tr><td>8</td><td>438</td><td>440</td><td>Sand</td><td></td></tr><tr><td>6</td><td>440</td><td>504</td><td>Brown sandy clay</td><td></td></tr><tr><td>"</td><td>504</td><td>515</td><td>Sand and clay</td><td></td></tr><tr><td>"</td><td>515</td><td>520</td><td>Brown clay</td><td></td></tr><tr><td>"</td><td>520</td><td>535</td><td>Brown clay and sand</td><td></td></tr><tr><td>"</td><td>535</td><td>536</td><td>Brown clay</td><td></td></tr><tr><td>"</td><td>536</td><td>540</td><td>Brown clay and sand</td><td>X</td></tr><tr><td>"</td><td>540</td><td>550</td><td>Brown sand</td><td>X</td></tr><tr><td>"</td><td>550</td><td>555</td><td>Brown clay</td><td></td></tr><tr><td>"</td><td>555</td><td>565</td><td>Brown sand</td><td>X</td></tr><tr><td>6</td><td>565</td><td>570</td><td>White & brown sand & gravel</td><td>X</td></tr></tbody></table>		Bore Diam.	Depth From	To	Material	Water Yes No	10	0	2	Top soil		"	2	110	Sand-clay		10	110	136	Gray lava		8	136	295	Gray lava		"	295	308	Brown lava & water fair		"	308	321	Gray lava		"	321	333	Brown lava		"	333	350	Gray lava		"	350	354	Brown lava		"	354	400	Gray lava		"	400	410	Brown lava		"	410	438	Gray lava		8	438	440	Sand		6	440	504	Brown sandy clay		"	504	515	Sand and clay		"	515	520	Brown clay		"	520	535	Brown clay and sand		"	535	536	Brown clay		"	536	540	Brown clay and sand	X	"	540	550	Brown sand	X	"	550	555	Brown clay		"	555	565	Brown sand	X	6	565	570	White & brown sand & gravel	X
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4. METHOD DRILLED ☒ Rotary ☐ Air ☐ Hydraulic ☐ Reverse rotary ☐ Cable ☐ Dug ☐ Other _____																																																																																																																											
5. WELL CONSTRUCTION Casing schedule: ☒ Steel ☐ Concrete ☐ Other _____ <table border="1"><thead><tr><th>Thickness</th><th>Diameter</th><th>From</th><th>To</th></tr></thead><tbody><tr><td>.250 inches</td><td>8 5/8 inches</td><td>1 feet</td><td>138 feet</td></tr><tr><td>.250 inches</td><td>6 1/4 inches</td><td>3 feet</td><td>565 feet</td></tr><tr><td>_____ inches</td><td>_____ inches</td><td>_____ feet</td><td>_____ feet</td></tr><tr><td>_____ inches</td><td>_____ inches</td><td>_____ feet</td><td>_____ feet</td></tr></tbody></table> Was casing drive shoe used? ☒ Yes ☐ No Was a packer or seal used? ☐ Yes ☒ No Perforated? ☐ Yes ☒ No How perforated? ☐ Factory ☐ Knife ☐ Torch ☐ Gun Size of perforation _____ inches by _____ inches <table border="1"><thead><tr><th>Number</th><th>From</th><th>To</th></tr></thead><tbody><tr><td>_____ perforations</td><td>_____ feet</td><td>_____ feet</td></tr><tr><td>_____ perforations</td><td>_____ feet</td><td>_____ feet</td></tr><tr><td>_____ perforations</td><td>_____ feet</td><td>_____ feet</td></tr></tbody></table> Well screen installed? ☐ Yes ☒ No Manufacturer's name _____ Type _____ Model No. _____ Diameter _____ Slot size _____ Set from _____ feet to _____ feet Diameter _____ Slot size _____ Set from _____ feet to _____ feet Gravel packed? ☐ Yes ☒ No ☐ Size of gravel _____ Placed from _____ feet to _____ feet Surface seal depth <u>136</u> Material used in seal: ☐ Cement grout ☒ Bentonite ☐ Puddling clay ☐ _____ Sealing procedure used: ☐ Slurry pit ☐ Temp. surface casing ☒ Overbore to seal depth Method of joining casing: ☐ Threaded ☒ Welded ☐ Solvent Weld ☐ Cemented between strata Describe access port _____		Thickness	Diameter	From	To	.250 inches	8 5/8 inches	1 feet	138 feet	.250 inches	6 1/4 inches	3 feet	565 feet	_____ inches	_____ inches	_____ feet	_____ feet	_____ inches	_____ inches	_____ feet	_____ feet	Number	From	To	_____ perforations	_____ feet	_____ feet	_____ perforations	_____ feet	_____ feet	_____ perforations	_____ feet	_____ feet																																																																																										
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6. LOCATION OF WELL Sketch map location must agree with written location. <table border="1"><tr><td>N</td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td></tr></table> Subdivision Name _____ Lot No. _____ Block No. _____ County <u>Elmore</u> NE ☐ NW ☐ SE ☐ SW ☐ T. 1 N ☐ S ☐ R. 4 E ☐ W ☐		N																									10. Work started <u>11/4/91</u> finished <u>11/14/91</u>																																																																																																
N																																																																																																																											
11. DRILLERS CERTIFICATION I/We certify that all minimum well construction standards were complied with at the time the rig was removed. Firm Name <u>Hiddleston & Son, Inc.</u> Firm No. <u>35</u> Rt. <u>3</u> , Box <u>610-D</u> Address <u>Mtn Home, ID 83647</u> Date <u>11/15/91</u> Signed by (Firm Official) <u>Mark S. Hiddleston</u> and (Operator) <u>John H. Smith</u>																																																																																																																											

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

1. WELL OWNER

Name Jersey Marton
Address Box 48 Mayfield Stage
Owner's Permit No. 61-89-2-026 83707

7. WATER LEVEL

Static water level 460 feet below land surface.
Flowing? ☐ Yes ☒ No G.P.M. flow _____
Artesian closed-in pressure _____ p.s.i.
Controlled by: ☐ Valve ☐ Cap ☐ Plug
Temperature _____ °F. Quality _____
Describe artesian or temperature zones below.

2. NATURE OF WORK

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

8. WELL TEST DATA

☐ Pump ☐ Bailer ☒ Air ☐ Other _____

Discharge G.P.M.	Pumping Level	Hours Pumped
<u>25</u>		<u>2</u>

3. PROPOSED USE

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

4. METHOD DRILLED

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

5. WELL CONSTRUCTION

Casing schedule: ☒ Steel ☐ Concrete ☐ Other

Thickness	Diameter	From	To
<u>250</u> inches	<u>6 5/8</u> inches	<u>2</u> feet	<u>584</u> feet
_____ inches	_____ inches	_____ feet	_____ feet
_____ inches	_____ inches	_____ feet	_____ feet
_____ inches	_____ inches	_____ feet	_____ feet

Was casing drive shoe used? ☒ Yes ☐ No
Was a packer or seal used? ☐ Yes ☒ No
Perforated? ☐ Yes ☒ NoHow perforated? ☐ Factory ☐ Knife ☐ Torch ☐ Gun

Size of perforation _____ inches by _____ inches

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

Well screen installed? ☐ Yes ☒ No

Manufacturer's name _____

Type _____ Model No. _____

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

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

Gravel packed? ☐ Yes ☒ No ☐ Size of gravel _____

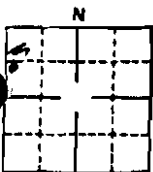
Placed from _____ feet to _____ feet

Surface seal depth 50 Material used in seal: ☐ Cement grout☒ Bentonite ☐ Pudding clay ☐ _____Sealing procedure used: ☐ Slurry pit ☐ Temp. surface casing
☒ Overbore to seal depthMethod of joining casing: ☒ Threaded ☐ Welded ☐ Solvent☐ Cemented between struts
Weld

Describe access port _____

6. LOCATION OF WELL

Sketch map location must agree with written location.



Subdivision Name _____

Lot No. _____ Block No. _____

County ElmoreS.W. x N.W. x Sec. 34, T. 1 S., R. 4 W.

11. DRILLERS CERTIFICATION

I/We certify that all minimum well construction standards were
complied with at the time the rig was removed.Firm Name Hindley & Son, Inc. Firm No. 25Address Mt. Home, Id. Date 11-12-89Signed by (Firm Official) Mark S. Hindley

and

(Operator) Mark S. Hindleyin Jason's work
but not on 10W2
6/25/09
AB

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.

32a 24.

128
3114

WELL OWNER

Name Wayne Russell

Address Garden City

Owner's Permit No. _____

7. WATER LEVEL

Static water level N/A feet below land surface.

Flowing? ☐ Yes ☒ No G.P.M. flow _____

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

Controlled by: ☐ Valve ☐ Cap ☐ Plug

Temperature _____ °F. Quality _____

2. NATURE OF WORK

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

3. PROPOSED USE

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

4. METHOD DRILLED

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

5. WELL CONSTRUCTION

Casing schedule: ☒ Steel ☐ Concrete ☐ Other _____

Thickness	Diameter	From	To
<u>250</u> inches	<u>8"</u> inches	<u>2</u> feet	<u>121</u> feet
_____ inches	_____ inches	_____ feet	_____ feet
_____ inches	_____ inches	_____ feet	_____ feet
_____ inches	_____ inches	_____ feet	_____ feet

Was casing drive shoe used? ☐ Yes ☒ No
Was a packer or seal used? ☐ Yes ☒ No
Perforated? ☐ Yes ☒ No
How perforated? ☐ Factory ☐ Knife ☐ Torch
Size of perforation _____ inches by _____ inches
Number _____ From _____ To _____
_____ perforations _____ feet _____ feet
_____ perforations _____ feet _____ feet
_____ perforations _____ feet _____ feet
Well screen installed? ☐ Yes ☒ No
Manufacturer's name _____
Type _____ Model No. _____
Diameter _____ Slot size _____ Set from _____ feet to _____ feet
Diameter _____ Slot size _____ Set from _____ feet to _____ feet
Gravel packed? ☐ Yes ☒ No ☐ Size of gravel _____
Placed from _____ feet to _____ feet
Surface seal depth 121 Material used in seal: ☐ Cement grout
☐ Puddling clay ☒ Wall cuttings
Sealing procedure used: ☐ Slurry pit ☐ Temp. surface casing
☒ Overbore to seal depth
Method of joining casing: ☐ Threaded ☒ Welded ☐ Solvent
☐ Weld
☐ Cemented between strata
Describe access port _____

8. LOCATION OF WELL

Sketch map location must agree with written location.

N

E

S

W

Subdivision Name _____

Lot No. _____ Block No. _____

County Elmore
SE 1/4 Sec. 36, T. 1 N, R. 4 W.

9. LITHOLOGIC LOG

73776

Hole Diam.	Depth		Material	Water	
	From	To		Yes	No
10"	0	4	Sand		☒
10"	4	121	Sand & Brk Clay		☒
8"	121	164	Lava Rock		☒
8"	164	170	Lava Rock & Red Clay		☒
8"	170	175	Lava Rock		☒
8"	175	555	Lava Rock & Cinders		☒
8"	555	575	Cinders		☒

RECEIVED

JAN 14 1982

Department of Water Resources

10.

Work started Oct. 12 finished Oct. 17, 1981

11. DRILLERS CERTIFICATION

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

Firm Name Gailey Drilling & Pump Co. Firm No. 291
Address Star Rt. B, Box 19-I Date Oct. 30, 1981
Mich. Home, MO
Signed by (Firm Official) [Signature]
and [Signature]
(Operator)

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

**USE TYPEWRITER OR
BALLPOINT PEN**

90.

326 (24)

[illegible]

Form 338-7
3/95-296

IDAHO DEPARTMENT OF WATER RESOURCES WELL DRILLER'S REPORT

065952

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

1. DRILLING PERMIT NO. 61-97-W-0033-000

Other IDWR No. _____

2. OWNER:

Name Rick Millington

Address 8011 Ustick Rd.

City Boise State ID Zip 83704

3. LOCATION OF WELL by legal description:

Sketch map location must agree with written location

N

W		Twp. <u>1</u> North ☐ or South ☒
		Rge. <u>5</u> East ☒ or West ☐
		Sec. <u>6</u> 1/4 NE 1/4 SW 1/4
S		Gov't lot _____ County <u>Elmore</u>

Lat: _____ Long: _____

Address of Well Site Baseline Rd

City Mayfield

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

Lt. _____ Blk. _____ Sub. Name _____

4. USE:

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

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

☒ New Well ☐ Modify ☐ Abandonment ☐ Other

6. DRILL METHOD

☒ Air Rotary ☐ Cable ☐ Mud Rotary ☐ Other

7. SEALING PROCEDURES

SEAL/FILTER PACK			AMOUNT		METHOD
Material	From	To	Sacks or Pounds		
bentonite	2	18	6		overbore

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

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

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
6"	+1	575	250	steel	☒	☐	☒	☐
8"	0	80	250	steel	☒	☐	☒	☐

Length of Headpipe _____ Length of Tailpipe _____

9. PERFORATIONS/SCREENS

☐ Perforations Method _____

☐ Screens Screen Type _____

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

10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

387 ft below ground

Artesian Pressure _____ lb

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

11. WELL TESTS:

☐ Pump ☐ Bailer ☒ Air ☐ Flowing Artesian

Yield gal/min.	Drawdown	Pumping Level	Time
30		560	2 hrs.

Water Temp. _____ Bottom hole temp. _____

Water Quality test or comments: _____

Depth first Water Encountered 455

12. LITHOLOGIC LOG: (Describe repair or abandonment)

Water

Bore Dia.	From	To	Remarks: Lithology, Water Quality & Temp.	Y	N
10"	0	1	brown top soil		
10"	1	3	brown clay		
10"	3	5	brown hardpan clay		
10"	5	20	brown sand		
8"	20	24	brown clay		
8"	24	60	brown clay & strips brown sand		
8"	60	114	white & brown soft granite		
8"	114	117	black granite		
8"	117	160	white & brown granite		
8"	160	175	brown granite chips		
8"	175	225	white & brown granite		
8"	225	338	brown clay		
8"	338	365	clear & white grnt. w/strips brn clay		
8"	365	402	brown fine sand		
8"	402	440	brn sand w/strips of clay		
6"	440	455	brown sandy clay		
6"	455	473	brown sand w/small gravel		
6"	473	495	brown clay		
6"	495	528	brown sand & small gravel		
6"	528	533	brown sandy clay		
6"	533	561	brown & white sand		
6"	561	566	light brown clay		
6"	566		gray sand		

RECEIVED

RECEIVED

SEP 11 1997

SEP - 4 1997

Department of Water Resources

WATER RESOURCES
WESTERN REGION

Completed Depth: 387 (Measurable)

Date: Started 07-11-97

Completed 07-18-97

13. DRILLER'S CERTIFICATION

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

Firm Name SOS Welldrilling & Pump Co

Firm No. 212

Firm Official Tral Spurrin

Date 9-2-97

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

Date 9-2-97

Date: 08/22/97 Time: 4:11 PM

MICROFILMED

SEP 18 1998

IDAHO DEPARTMENT OF WATER RESOURCES

WELL DRILLER'S REPORT

Use Typewriter or Ballpoint Pen

061830

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

1. DRILLING PERMIT NO. 601-97-W-0049-000
Other IDWR No. D0001188

2. OWNER:

Name Tony Vasquez
Address 3761 Clacton Way
City Boise State ID Zip 83712

3. LOCATION OF WELL by legal description:

Sketch map location must agree with written location.

N		Twp. <u>1</u>		North ☐	or	South ☒
W		Rge. <u>5</u>		East ☒	or	West ☐
E		Sec. <u>15</u>		SE 1/4	SE 1/4	1/4
S		Gov't Lot _____		County <u>Elmore</u>	160 acres	
		Lat: _____		Long: _____		
		Address of Well Site <u>85 Faulkener</u>		City _____		

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

Lt. 9 Blk. _____ Sub. Name Tipanuk

4. USE:

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

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

☒ New Well ☐ Modify ☐ Abandonment ☐ Other _____

6. DRILL METHOD

☒ Air Rotary ☐ Cable ☐ Mud Rotary ☐ Other _____

7. SEALING PROCEDURES

SEAL/FILTER PACK			AMOUNT		METHOD
Material	From	To	Gauge	Material	
Bentonite	0	19	2	OverBore	

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

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
65/8	+1	19	250	Steel	☒	☐	☐	☐

Length of Headpipe _____ Length of Tailpipe _____

9. PERFORATIONS/SCREENS

☐ Perforations Method _____
☐ Screens Screen Type _____

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
						☐	☐

10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

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

11. WELL TESTS:

☐ Pump ☐ Bailor ☐ Air ☐ Flowing Artesian

Yield gal./min.	Drawdown	Pumping Level	Time

Water Temp. _____ Bottom hole temp. _____

Water Quality test or comments: _____

Depth first Water Encountered _____

12. LITHOLOGIC LOG: (Describe repairs or abandonment)

Bore Dia.	From	To	Remarks: Lithology, Water Quality & Temperature	Y	N
8	0	1	Top soil		
	1	7	Clay		
8	7	19	Gray Lava		
6	19	30	Gray Lava		
0	30	42	Red Cinders		
6	42	140	Gray Lava		
6	140	142	Void Lost Circ		
6	142	278	Med		
6	278	350	Med Hard		
6	350	450	Brown-Black Cinders	X	
6	450	468	Gray Lava		
6	468	487	Red Cinders	X	
6	487	500	Gray Lava		

RECEIVED

NOV 12 1997

Department of Water Resources

RECEIVED

NOV - 6 1997

WATER RESOURCES
WESTERN REGIONCompleted Depth 500 (Measurable)
Date Started 10-17-97 Completed 10-30-97

13. DRILLER'S CERTIFICATION

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

Firm Name Hiddleston & Son Inc Firm No 35Firm Official [Signature] Date 10/29/97and Supervisor or Operator Matt Hiddleston Date 10/29/97

(Sign once if Firm Official & Operator)

FORWARD WHITE COPY TO WATER RESOURCES

IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

842347

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

1. WELL TAG NO. D 0047381
DRILLING PERMIT NO. 896626-842347
Other IDWR No. 61-7760

2. OWNER:
Name **Beacon Heights, LLC**
Address **2250 N. University Parkway #4830**
City **Provo** State **UT** Zip **84604**

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

North
Twp. 01 North or South X
Rge. 05 East X or West
Sec. 18 1/4 SW 1/4 SW 1/4
Gov't Lot 10 acres Elmore
Lat: 43 19.921' Long: 115 54.871'
Address of Well Site **2029 South Tyler Rd.**
City **Boise**

(Give at least name of road - Distance to Road or Landmark)
Lt. 8 Blk. 1 Sub. Name **Sunrider Ranch**

4. USE:
Domestic Municipal Monitor Irrigation
Thermal Injection X Other **Test PWS**

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

6. DRILL METHOD:
Air Rotary Cable X Mud Rotary Other

7. SEALING PROCEDURES:

Seal/Filter Pack	AMOUNT	METHOD
Material From To Sacks or Pounds		
Filter Sand 0 949'	3000 lbs	Poured

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

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
2"	19'	949'		Zin PVC Drop	X			X

Length of Headpipe Length of Tailpipe

9. PERFORATIONS/SCREENS:

Perforations Method
X Screens Screen Type **Zin PVC Screen**

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
949'	929'			2"	PVC		X

10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

385 ft. below ground Artesian pressure 264 lb
Depth flow encountered 950-970 ft Describe access port or control devices None

11. WELL TESTS:

Pump	Bailer	X Air	Flowing Artesian
Yield gal/min	Drawdown	Pumping Level	Time
7 gpm PVC	Airline Sampling	580 feet Tube	24 Hrs.

Water Temp. 63.6 F Bottom hole temp. 88 F
Water Quality test or comments: pH=8.0, DO=7.32, ORP=89 mV
Cond=244 u S Depth first Water Encounter Mud-Hole

12. LITHOLOGIC LOG: (Describe repairs or abandonment)

Bore Dia	From	To	Remarks: Lithology, Water Quality & Temperature	Water
8"	0	2'	Top Soil	
8"	2'	42'	Granite & Sand	
8"	42'	65'	Tan Sand	
8"	65'	235'	Tan Clay & Granite Sand	
8"	235'	255'	Granite Sand	
8"	255'	365'	Tan Clay & Sand Seams	
8"	365'	420'	Granite Sand	
8"	420'	465'	Tan Clay w/Granite Sand	
8"	465'	485'	Granite Sand (Clean)	X
8"	485'	510'	Clay & Granite Sand	
8"	510'	525'	Tan Clay	
8"	525'	575'	Brown Clay & Sand	
8"	575'	660'	Granite Sand	
8"	660'	770'	Clay & Granite Sand	
8"	770'	860'	Clay	
8"	860'	955'	Granite Sand	X
8"	955'	960'	Clay & Granite Sand	X
8"	960'	975'	Granite Sand	X
8"	975'	1010'	Tan Clay	X

RECEIVED

MAR 28 2008

WATER RESOURCES
WESTERN REGION

Well Designed by
Hydro Logic, Inc.

RECEIVED

MAY 22 2008

WATER RESOURCES
WESTERN REGION

Completed Depth 1010' (Measurable)
Date Started 9/27/2006 Completed 10/18/2006

13. DRILLER'S CERTIFICATION:

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

Company Name **Treasure Valley Drilling**

Firm No 560

Firm Official
and

Date 11/13/2006

Driller or Operator

Date 11/13/2006

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

1. WELL OWNER Name <u>FRED T. & FRANCES E. SMITH</u> Address <u>HC 34 SIMBO RD</u> <u>BOISE, ID 83706</u> Owner's Permit No. <u>61-90-W-002</u>		7. WATER LEVEL Static water level <u>334'</u> feet below land surface. Flowing? ☐ Yes ☒ No G.P.M. flow <u>5</u> Artesian closed-in pressure _____ p.s.i. Controlled by: ☐ Valve ☐ Cap ☐ Plug Temperature <u>58</u> °F. Quality <u>GOOD</u> Describe artesian or temperature zones below																																																													
2. NATURE OF WORK ☒ New well ☐ Deepened ☐ Replacement ☐ Well diameter increase ☐ Abandoned (describe abandonment procedures such as materials, plug depths, etc. in lithologic log)		8. WELL TEST DATA ☐ Pump ☒ Bailer ☐ Air ☐ Other _____ <table border="1"><thead><tr><th>Discharge G.P.M.</th><th>Pumping Level</th><th>Hours Pumped</th></tr></thead><tbody><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr></tbody></table>		Discharge G.P.M.	Pumping Level	Hours Pumped																																																									
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3. PROPOSED USE ☒ Domestic ☐ Irrigation ☐ Test ☐ Municipal ☐ Industrial ☐ Stock ☐ Waste Disposal or Injection ☐ Other _____ (specify type)		9. LITHOLOGIC LOG <table border="1"><thead><tr><th>Bore Diam.</th><th>Depth From To</th><th>Material</th><th>Water Yes/No</th></tr></thead><tbody><tr><td> </td><td>0 2</td><td>SURFACE SOIL</td><td> </td></tr><tr><td> </td><td>2 8</td><td>DECOMPOSED GRANITE</td><td> </td></tr><tr><td> </td><td>8 190</td><td>D.G. / CLAY</td><td> </td></tr><tr><td> </td><td>190 193</td><td>BOULDER SAND STONE</td><td> </td></tr><tr><td> </td><td>193 300</td><td>D.G. / CLAY</td><td> </td></tr><tr><td> </td><td>300 307</td><td>D.G.</td><td> </td></tr><tr><td> </td><td>307 334</td><td>D.G. / CLAY</td><td> </td></tr><tr><td> </td><td>334 340</td><td>SAND / WATER</td><td>✓</td></tr><tr><td> </td><td>340 376</td><td>SAND / CLAY</td><td> </td></tr><tr><td> </td><td>376 380</td><td>SAND</td><td>✓</td></tr><tr><td> </td><td>380 386</td><td>SAND / CLAY</td><td> </td></tr><tr><td> </td><td>386 400</td><td>SAND / WATER</td><td>✓</td></tr><tr><td> </td><td>400 427</td><td>SAND / CLAY</td><td> </td></tr><tr><td> </td><td>427 331</td><td>SAND / WATER</td><td>✓</td></tr></tbody></table>		Bore Diam.	Depth From To	Material	Water Yes/No		0 2	SURFACE SOIL			2 8	DECOMPOSED GRANITE			8 190	D.G. / CLAY			190 193	BOULDER SAND STONE			193 300	D.G. / CLAY			300 307	D.G.			307 334	D.G. / CLAY			334 340	SAND / WATER	✓		340 376	SAND / CLAY			376 380	SAND	✓		380 386	SAND / CLAY			386 400	SAND / WATER	✓		400 427	SAND / CLAY			427 331	SAND / WATER	✓
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	427 331	SAND / WATER	✓																																																												
4. METHOD DRILLED ☐ Rotary ☐ Air ☐ Hydraulic ☐ Reverse rotary ☒ Cable ☐ Dug ☐ Other _____		RECEIVED APR 25 1990 Department of Water Resources RECEIVED APR 19 1990 Department of Water Resources RECEIVED APR 23 1990 Department of Water Resources Western Regional Office																																																													
5. WELL CONSTRUCTION Casing schedule: ☒ Steel ☐ Concrete ☐ Other _____ <table border="1"><thead><tr><th>Thickness</th><th>Diameter</th><th>From</th><th>To</th></tr></thead><tbody><tr><td>125 inches</td><td>6 inches</td><td>2 feet</td><td>431 feet</td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr></tbody></table> Was casing drive shoe used? ☒ Yes ☐ No Was a packer or seal used? ☐ Yes ☒ No Perforated? ☐ Yes ☒ No How perforated? ☐ Factory ☐ Knife ☐ Torch ☐ Gun Size of perforation _____ inches by _____ inches <table border="1"><thead><tr><th>Number</th><th>From</th><th>To</th></tr></thead><tbody><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr></tbody></table> Well screen installed? ☐ Yes ☒ No Manufacturer's name _____ Type _____ Model No. _____ Diameter _____ Slot size _____ Set from _____ feet to _____ feet Diameter _____ Slot size _____ Set from _____ feet to _____ feet Gravel packed? ☐ Yes ☐ No ☐ Size of gravel _____ Placed from _____ feet to _____ feet Surface seal depth <u>10'</u> Material used in seal: ☐ Cement grout ☒ Bentonite ☐ Puddling clay ☐ _____ Sealing procedure used: ☐ Slurry pit ☒ Temp. surface casing ☐ Overbore to seal depth Method of joining casing: ☐ Threaded ☒ Welded ☐ Solvent Weld _____ ☐ Cemented between strata Describe access port _____				Thickness	Diameter	From	To	125 inches	6 inches	2 feet	431 feet													Number	From	To																																					
Thickness	Diameter			From	To																																																										
125 inches	6 inches			2 feet	431 feet																																																										
Number	From	To																																																													
6. LOCATION OF WELL Sketch map location must agree with written location <table border="1"><tr><td>N</td><td> </td><td>E</td></tr><tr><td>W</td><td> </td><td> </td></tr></table> Subdivision Name <u> </u> Lot No. <u> </u> Block No. <u> </u> County <u>Elmore</u> SW <u> </u> % SW <u> </u> % Sec. <u>18</u> T. <u>1</u> N <u> </u> S <u> </u> R. <u>5</u> W <u> </u>		N		E	W			10. Work started <u>6 FEB 90</u> finished <u>26 MAR 90</u>																																																							
N		E																																																													
W																																																															
11. DRILLERS CERTIFICATION I/We certify that all minimum well construction standards were complied with at the time the rig was removed. Firm Name <u>GEORGE GILLEY WISLA</u> Firm No. <u>47625</u> <u>12410 AIR ST SE RD</u> Address <u>MTN HOME, ID</u> Date <u>14 APR 90</u> Signed by (Firm Official) <u>George A. Gilley</u> and _____ (Operator) <u> </u>																																																															

FORWARD THE WHITE COPY TO THE DEPARTMENT

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

[illegible]

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

* Change made on Legal description

Form 235-1
4/88

Drilling Permit No. 61-77-2-023
Water Permit No. _____
Injection Permit No. _____

RECEIVED
SEP 27 1989

State of Idaho
Department of Water Resources

DRILLING PERMIT

RECEIVED
SEP 24 1989

Department of Water Resources (Authorizing Construction of a Well)*
Western Regional Office

1. Applicant Double Diamond Ranches
2. Address 200 Sunrise Rim Rd.
Boise Id 83785 Telephone _____
- (☒) Well Owner (☐) Well Operator (☐) Other, specify _____
3. Proposed well location NE 1/4 SW 1/4, or Gov't lot No. _____
Sec. _____, Twp. 1 S, Rge. 5 E, County Elmore
Lot, block and subdivision _____
4. Proposed use of well: (Check all that apply)
(☒) Domestic (☐) Stockwater (☐) Monitoring
(☐) Irrigation (☐) Industrial (☐) Municipal
(☐) Injection (☐) Other, Specify _____
5. Well construction information:
(☒) New well (☐) Deepen (☐) Replace
Proposed surface diameter 16" Maximum depth 300'
Anticipated bottom hole temperature: _____
(☒) 85°F or less (Cold water well)
(☐) 85°F to 212°F (Low temp. geothermal well)
(☐) 212°F or more (Geothermal well)
6. Anticipated construction start date 8-21-89
7. Well Driller (if known) Hiddleston & Son Inc #35
Address Rt. 3, Box 610-D, Mtn. Home Id
8. Applicant's signature Connie Salzman
Title Office Manager
Date 8/21/89

* After other pre-requisite approvals have been obtained.

* Fee is \$10 for single family domestic. Other uses may be \$100, \$50 or \$10.

(2)

I-26-67	I45' to I50'	Hard brown rock. Hopkins has lava ash in his log.
I-27-67	I50' to I54'	Hard, brown tuff. Drilling slow-worked I3 $\frac{1}{2}$ hrs. run rope socket.
I-28-67	I54' to I56'	Gray rock. Drilling slow, and rough. hole is lin off.
I-30-67	I56' to I I60'	Hard lava. Shet hole three times. Came back a little bit. This welded tuff is Lava.
I-3I-67	I60' to I68'	Brown ryalite, going better.
2-I-67	I68' to I75'	Lava ash. Drilling slow.
2-2-67	I75' to I84'	Lava ash. Drilling slow. The ground hog saw his shadow. He was doing what I wouldnt do to a dog.
2-3-67	I84' to I92'	Brown ryalite.
	I92' to 200'	Clay and red rock. Worked I4 hrs.
2-4-67	200' to 206'	Ryalite and rock. Run rope socket. Drilling fair.
2-6-67	206' to 2I8'	Looks like lava. No water.
2-7-67	2I8' to 222'	Lava. Water at 222'.
	222' to 235'	Brown clay. Water at 222'
2-8-67	235' to 260'	Clay caving. Hard to stop.
2-I0-67	260'--ee	Came back and ran casing, wouldnt go all the way.
2-II-67		Trjed to ream the hole, for 4 hrs.
2-I3-67		Brought under digger bit. Worked to II p.m.
2-I4-67		Chasing the dog with underdigger.
2-I5-67		" " " " " " worked 6 hrs.
2-I6-67		Came back, Roads bad. Got in at three P.M. Pulled the casing. Tore down the tools.
2-I7-67		Run the ripper all day.
2-I8-67		Started at 7 a.m. Still running the ripper.
2-20-67		Got Pitman out off shop. Run ripper all day.
2-2I-67		Run ripper.
2-22-67		Run ripper.
2-23-67		Run ripper and run dummy.

REPORT OF WELL DRILLER
State of Idaho

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

WELL OWNER:

Name Corp of Engineers

Address Missile Site - 171

Sunny Side Area

Owner's Permit No. _____

NATURE OF WORK (check): Replacement well ☐

New well ☒ Deepened ☐ Abandoned ☐

Water is to be used for: Test Hole

METHOD OF CONSTRUCTION: Rotary ☐ Cable ☒

Dug ☐ Other _____

(explain) _____

CASING SCHEDULE: Threaded _____ Welded _____

30 "Diam. from 0 ft. to 6 ft.

20 "Diam. from 163 ft. to 214 ft.

16 "Diam. from 314 ft. to 417 ft.

"Diam. from _____ ft. to _____ ft.

Thickness of casing: _____ Material: _____

Steel ☒ concrete ☐ wood ☐ other ☐

(explain) _____

PERFORATED? Yes ☐ No ☒ Type of perforator used: _____

Size of perforations: _____ " by _____ "

perforations from _____ ft. to _____ ft.

perforations from _____ ft. to _____ ft.

perforations from _____ ft. to _____ ft.

perforations from _____ ft. to _____ ft.

WAS SCREEN INSTALLED? Yes ☐ No ☐

Manufacturer's name _____

Type _____ Model No. _____

Diam. _____ Slot size _____ Set from _____ ft. to _____ ft.

Diam. _____ Slot size _____ Set from _____ ft. to _____ ft.

CONSTRUCTION: Well gravel packed? Yes ☐

No ☒ size of gravel _____ Gravel

placed from _____ ft. to _____ ft. Surface seal

provided? Yes ☐ No ☐ To what depth? _____

ft. Material used in seal: _____

Did any strata contain unusable water? Yes ☐

No ☐ Type of water: _____

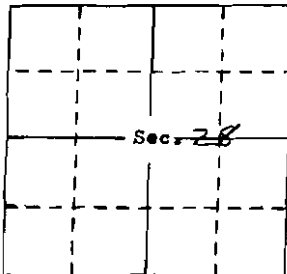
Depth of strata _____ ft. Method of sealing

strata off: _____

Surface casing used? Yes ☐ No ☐

Cemented in place? Yes ☐ No ☐

Locate well in section



LOCATION OF WELL: County _____

* * * Sec. 28 T. 1 S. R. 5 E. W.

Use other side for additional remarks

Size of drilled hole: 30 " Total

depth of well: 447 Standing water

level below ground: _____ Temp. _____

Fahr. _____ Test delivery: _____ gpm

or _____ cfs Pump? ☐ Bail ☐

Size of pump and motor used to make test: _____

Length of time of test: _____ Hrs. _____ Min.

Drawdown: _____ ft. Artesian pressure: ft.

above land surface _____ Give flow _____ cfs

or _____ gpm. Shutoff pressure: _____

Controlled by: Valve ☐ Cap ☐ Plug ☐

No control ☐ Does well leak around casing?

Yes ☐ No ☐

DEPTH _____ MATERIAL 104260 WATER

FROM _____ YES OR NO

FEET FEET

0 Coarse sand very dirty

1 Sand, very dirty, fine to coarse

116 basalt grains to pebbles, some

117 quartz grains

118 Clay, yellow with some quartz

119 Sand

120 Sand, very dirty, quartz grains

121 Clay, yellow

122 Sand, coarse to gravel clean

123 very little water, quartz with

124 mica

125 Clay, sandy yellow

126 Clay, sticky brown

127 Gravel and sand

128 white quartz grains

129 Clay, sandy brown to buff

130 Sand, granitic with clay

131 Clay buff, sticky, some

132 sand

133 Granite - Hard

134 Hole bottomed in granite

Rock identified in Geologic lab

by R.R. Galt, Geol. Techn.

Techn.

Work started: Aug 28, 1958

Work finished: Sept 12, 1958

Well Driller's Statement: This well was

drilled under my supervision and this report

is true to the best of my knowledge.

Name: Copied by Phil R. Plummer

Address: from top of Eng. Publ. well

Signed by: Log

License No. _____ Date: 2-12-69

Drilled by Strasser

USGS

IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

Office Use Only		
Well ID No.	800153	
Inspected by		
Twp	Rge	Sec
1/4	1/4	1/4
Lat	:	Long

1. WELL TAG NO. 0029447

DRILLING PERMIT NO.

Water Right or Injection Well No.

2. OWNER:

Name Chris Sirani
Address 19711 N. Cain Pl.
City Mandan State ND Zip

3. LOCATION OF WELL by legal description:

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

Twp. 1 North ☐ or South ☒
Rge. 5 East ☒ or West ☐
Sec. 29 SW 1/4 SE 1/4 T88 S8E
Gov't Lot County Mc
Lat: Long:
Address of Well Site Same as Above City

(Show at least north or south, east or west, or longitude)

Lt. Blk. Sub. Name

4. USE:

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

5. TYPE OF WORK check all that apply

☐ New Well ☒ Modify ☐ Abandonment

(Replacement etc.)

☒ Other Bring up
to min stand

6. DRILL METHOD:

☐ Air Rotary ☒ Cable ☐ Mud Rotary ☐ Other

7. SEALING PROCEDURES

Seal Material	From	To	Weight / Volume	Seal Placement Method

Was drive shoe used? ☒ Y ☐ N Shoe Depth(s) 440
Was drive shoe seal tested? ☐ Y ☐ N How? oil test

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
6"	22	440	250	Steel	☒	☐	☒	☐
					☐	☐	☐	☐
					☐	☐	☐	☐

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

9. PERFORATIONS/SCREENS PACKER TYPE

Perforation Method Screen Type & Method of Installation

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

10. FILTER PACK

Filter Material	From	To	Weight / Volume	Placement Method

11. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

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

12. WELL TESTS:

☐ Pump ☐ Bailor ☐ Air ☐ Flowing Artesian

Yield gal./min.	Drawdown	Pumping Level	Time
<u>0</u>	<u>0</u>	<u></u>	<u></u>

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

13. LITHOLOGIC LOG: (Describe repairs or abandonment)

Bore Dia.	From	To	Remarks: Lithology, Water Quality & Temperature	Y	N
			This well ~~was~~ Had Been drilled by Ransom Water well Drilling was not to min well Stand Pulled 60' off 6" casing out of Bottom of Hole Pulled 16' of 8" steel casing Pulled 60' of 8" Pipe Ran casing to 410		
	390	410	Sand & gravel	x	
	410	490	tan clay		x
	490	500	Pe conosed gravel		x
			Dry Hole Filled Annular space with bentonite chips 1 ton bentonite welded by steel Plate on top		
			RECEIVED JUL 14 2003 WATER RESOURCES WESTERN REGION		

Completed Depth 500 (Measurable)Date: Started 4/29/2001 Completed 5/20/2003

14. DRILLER'S CERTIFICATION

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

Company Name Ed L Holder Firm No. 578Principal Driller Ed L Holder Date 5/20/2003and Driller or Operator II Date Operator I Date

Principal Driller and Rig Operator Required.

Operator I must have signature of Driller/Operator II.

FORWARD WHITE COPY TO WATER RESOURCES

IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

Office Use Only		
Well ID No.	807062	
Inspected by		
Twp	Rge	Sec
1/4	1/4	1/4
Lat:	:	Long:

1. WELL TAG NO. D 0029937
DRILLING PERMIT NO. _____
Water Right or Injection Well No. _____

2. OWNER:
Name Barclay Const
Address 4916 Oaklark Ave
City Boise State ID Zip 83703

3. LOCATION OF WELL by legal description:

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

Twp. 1 North ☐ or South ☒
Rge. 5 East ☒ or West ☐
Sec. 29 1/4 SE 1/4 SW 1/4
Gov't Lot _____
County Elmore
Lat: _____ Long: _____
Address of Well Site 15399 Sales Pk Rd

City Meridian
Lt. _____ Blk. _____ Sub. Name Sales Rest

4. USE:

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

5. TYPE OF WORK check all that apply

☐ New Well ☐ Modify ☐ Abandonment ☒ Other D0018632 (Replacement etc.)

6. DRILL METHOD:

☒ Air Rotary ☐ Cable ☐ Mud Rotary ☐ Other _____

7. SEALING PROCEDURES

Seal Material	From	To	Weight / Volume	Seal Placement Method
<u>Bentonite</u>	<u>0</u>	<u>360</u>	<u>2900 #</u>	<u>overbore</u>

Was drive shoe used? ☒ Y ☐ N Shoe Depth(s) 540'

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

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
<u>6"</u>	<u>+2</u>	<u>540</u>	<u>250</u>	<u>Steel</u>	☒	☐	☒	☐

Length of Headpipe _____ Length of Tailpipe _____

Packer ☐ Y ☐ N Type _____

9. PERFORATIONS/SCREENS PACKER TYPE

Perforation Method _____

Screen Type & Method of Installation Open -

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

10. FILTER PACK

Filter Material	From	To	Weight / Volume	Placement Method

11. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

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

12. WELL TESTS:

☐ Pump ☐ Bailor ☒ Air ☐ Flowing Artesian

Yield gal./min.	Drawdown	Pumping Level	Time
<u>50</u>			<u>1 hour</u>

Water Temp. _____ Bottom hole temp. _____

Water Quality test or comments: no tested

Depth first Water Encounter 400'

13. LITHOLOGIC LOG: (Describe repairs or abandonment)

Bore Dia.	From	To	Remarks: Lithology, Water Quality & Temperature	Y	N
"	0	3	top soil		
"	3	28	silt & clay		
"	28	51	clay		
"	51	89	loam		
"	89	103	clay		
"	103	291	granite & clay		
"	291	400	clay, granite & lava layers		
"	400	412	sand	X	
"	412	426	clay		
"	426	443	clay & sand layers	X	
"	443	463	clay		
"	463	471	clay & sand	X	
"	471	477	clay		
"	477	486	sand & gravel	X	
"	486	495	clay		
"	495	527	clay & sand stone		
"	527	545	hard clay		
"	545	555	big sand	X	
"	555	564	clay		
"	564	570	hard clay		
"	570	575	broken clay & sand	X	

RECEIVED

OCT 08 2003

WATER RESOURCES
WESTERN REGION

Completed Depth 575' (Measurable)

Date: Started 9-22-03 Completed 10-02-03

14. DRILLER'S CERTIFICATION

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

Company Name ABC Well Drilling Firm No. 629

Principal Driller Andy Rye Date 10-6-03

Driller or Operator II Andy Rye Date 10-6-03

Operator I _____ Date _____

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

FORWARD WHITE COPY TO WATER RESOURCES

IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

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

1. DRILLING PERMIT NO. _____
Other IDWR No. D0047437 _____

2. OWNER:
Name Judy Robinson
Address 2704 Lynx Ave
City Boise State ID Zip 83705

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

Twp. 1 North ☐ or South ☒
 Rge. 5 East ☒ or West ☐
 Sec. 29 $\frac{1}{4}$ NE $\frac{1}{4}$ SW $\frac{1}{4}$
 10 acres 40 acres 160 acres

S Gov't lot _____ County _____
 Lat: _____ Long: _____
 Address of Well Site 19685 N Cairns Place
 City Oasis

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

Lt. 6 Blk. _____ Sub. Name Solex Rest Creek
Subdivision _____

4. USE:

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

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

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

7. SEALING PROCEDURES

SEAL/FILTER PACK			AMOUNT	METHOD
Material	From	To	Sacks or Pounds	
Granular Bentonite 0		18	4 Sacks	Overbore

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

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
6	+2	393	250	Steel	☒	☐	☐	☐
					☐	☐	☐	☐
					☐	☐	☐	☐

Length of Headpipe 5' Length of Tailpipe 5'

9. PERFORATIONS/SCREENS

☐ Perforations Method _____

☒ Screens Screen Type johnson well screen

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
393	403	20		5"	Steel	☐	☒
						☐	☐
						☐	☐

10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

359 ft. below ground

Artesian Pressure 1b

11. WELL TESTS:

☐ Pump ☐ Bailer ☒ Air ☐ Flowing Artesian			
Yield gal/min	Drawdown	Pumping Level	Time
3 to 4		390'	4 1/2 hrs.

Water Temp. _____ Bottom hole temp. _____

Water Quality test or comments:

Depth first Water Encountered 393

12. LITHOLOGIC LOG: (Describe repair or abandonment)

Water

[illegible]

Completed Depth: 403 ft. (Measurable)
Date: Started 10/30/06 Completed 11/04/06

13. DRILLER'S CERTIFICATION

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

Firm Name **Hiddleston & Son, Inc.**

Firm No 35

Firm Official

Date 11-7-11

Form 238-7
3/95-C96

IDAHO DEPARTMENT OF WATER RESOURCES WELL DRILLER'S REPORT

834613
Office Use Only
Inspected by _____
Twp _____ Rge _____ S _____
1/4 _____ 1/4 _____
Lat: _____ Long: _____

1. DRILLING PERMIT NO _____

Other IDWR No. D0039452

2. OWNER:

Name Cindy Shea

Address 2227 Stephen Ave

City Boise State ID Zip 83706

3. LOCATION OF WELL by legal description:

Sketch map location must agree with written location

N
W E
Twp. 1 North ☐ or South ☒
Rge. 5 East ☒ or West ☐
Sec. 29 1/4 SE 1/4 SW 1/4
10 acres 40 acres 160 acres
Gov't lot _____ County Elmore

Lat: _____ Long: _____

Address of Well Site 1544 W Soles Rest Creek Rd

City Mtn Home

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

Lt. _____ Blk. _____ Sub. Name _____

4. USE:

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

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

☒ New Well ☐ Modify ☐ Abandonment ☐ Other _____

6. DRILL METHOD

☒ Air Rotary ☐ Cable ☐ Mud Rotary ☐ Other _____

7. SEALING PROCEDURES

SEAL/FILTER PACK			AMOUNT	METHOD
Material	From	To	Sacks or Pounds	
Bentonite	0	18	1000 lbs	Overbore

Was drive shoe used? ☒ Y ☐ N Shoe Depth(s) 18

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

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
6 5/8"	0	18	250	SS	☒	☐	☐	☐
					☐	☐	☐	☐

Length of Headpipe _____ Length of Tailpipe _____

9. PERFORATIONS/SCREENS

☐ Perforations Method _____
☐ Screens Screen Type _____

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

10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

380 ft. below ground

Artesian Pressure _____ lb

Depth flow encountered _____ ft.

Describe access port or control _____

11. WELL TESTS:

☐ Pump ☐ Bailor ☒ Air ☐ Flowing Artesian

Yield gal/min	Drawdown	Pumping Level	Time
15 gpm			1 hour

Water Temp. _____ Bottom hole temp. _____

Water Quality test or comments: _____

Depth first Water Encountered _____

12. LITHOLOGIC LOG: (Describe repair or abandonment)

Water

Bore Dia	From	To	Remarks: Lithology, Water Quality & Temp.
10"	0	4'	Top soil
10"	4'	10'	Tan sand
10"	10'	18'	Tan clay
6"	18'	60'	Sand clay
6"	60'	98'	Gray lava
6"	98'	250'	Sand & gravel
6"	250'	320'	Sand & clay seams
6"	320'	400'	Sand & gravel
6"	400'	420'	Brown hard clinder

RECEIVED

SEP 01 2005

WATER RESOURCES
WESTERN REGION

Completed Depth: 420 (Measurable)

Date: Started 07-09-05 Completed 07-11-05

13. DRILLER'S CERTIFICATION

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

Firm Name Hiddleston & Son, Inc.

Firm No. 35

Firm Official _____

Date 8-26

Supervisor or Operator _____

Date 8-26

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

Firm Name Hiddleston & Son, Inc. Firm No. 35
Firm Official John Sullivan Date 5-4
Supervisor or Operator John Smith Date 5-17

IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

769490

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

1st Well

1. WELL TAG NO. D 00 18 632

DRILLING PERMIT NO. _____

Other IDWR No. _____

2. OWNER:

Name BARCLAY CONSTRUCTION
Address 4916 W. OUTLOOK
City BOISE State ID. Zip 83703

342-6059

3. LOCATION OF WELL by legal description:

Sketch map location must agree with written location.

N
W E S
Twp. 1 North ☐ or South ☒
Rge. 5 East ☒ or West ☐
Sec. 29 1/4 SE 1/4 SW 1/4
Gov't Lot _____ County Elmore
Lat: _____ Long: _____

Address of Well Site 15399 Soles
REST Creek Road City MT. HOME
(Give at least name of road - Distance to Road or Landmark)

Lt. 2B Blk. _____ Sub. Name Soles Rest
ROAD

4. USE:

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

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

☒ New Well ☐ Modify ☐ Abandonment ☐ Other _____

6. DRILL METHOD

☒ Air Rotary ☒ Cable ☐ Mud Rotary ☐ Other _____

7. SEALING PROCEDURES

SEAL/FILTER PACK			AMOUNT		METHOD
Material	From	To	Sacks or Pounds		
BENTONITE	0	19'	12		12" Temp. casing

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

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
8 + 2	18'	250		steel	☒	☐	☐	☐
					☐	☐	☐	☐
					☐	☐	☐	☐

Length of Headpipe _____ Length of Tailpipe _____

9. PERFORATIONS/SCREENS

Perforations

Method

Screens

Screen Type

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
18	380			8	PVC	☐	☒
						☐	☐
						☐	☐

10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

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

11. WELL TESTS:

☒ Pump ☐ Bailor ☐ Air ☐ Flowing Artesian

Yield gal./min.	Drawdown	Pumping Level	Time
20	—	350'	4 hr.

Water Temp. cold Bottom hole temp. _____
Water Quality test or comments: good Depth first Water Encounter 415'

12. LITHOLOGIC LOG: (Describe repairs or abandonment)

Bore Dia.	From	To	Remarks: Lithology, Water Quality & Temperature	Y	N
12	0	1	TOP SOIL		X
12	1	7	HARD PAN		X
12	7	12	HARD CLAY		X
12	12	15	CLAY BROWN & GRAY		X
12	15	25	SAND-CLAY MIX		X
10	25	125	HARD BLACK LAVA		X
10	125	140	BROWN CLAY AND GRANIT		X
10	145	165	LAVA		X
10	165	185	GRANIT AND CLAY STRIPS		X
10	185	200	LAVA		X
10	200	260	BROWN GRANIT		X
10	260	310	HARD BROWN CLAY W/		X
10	310	380	GRANIT		X
10	380	400	GRANIT		X
10	400	440	CLAY / GRANIT MIX		X
10	440	425	LARGE SAND	X	

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JUL 18 2001

Department of Water Resources

RECEIVED

JUL 03 2001

WATER RESOURCES
WESTERN REGION

Completed Depth 420' (Measurable)
Date: Started 6-15-01 Completed 6-26-01

13. DRILLER'S CERTIFICATION

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

Company Name Ransom Water Wells Firm No. 575

Firm Official For Ransom Date 7-2-01

and

Driller or Operator _____ Date _____

(Sign once if Firm Official & Operator)

FORWARD WHITE COPY TO WATER RESOURCES

867733-770471
IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

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

1. WELL TAG NO. D 0018941
DRILLING PERMIT NO. _____
Other IDWR No. _____

2. OWNER: Barclay Homes
Name _____
Address 4916 West Oakbrook
City Boise State ID Zip 83701

3. LOCATION OF WELL by legal description:

Sketch map location must agree with written location.

Map grid showing Township 1 North ☐ or South ☒
Range 5 East ☒ or West ☐
Section 1 1/4 _____ 1/4 _____ 1/4 _____
Gov't Lot _____ County Blaine
Lat _____ Long _____
Address of Well Site 15520
Sales Rest Creek Road City Mountain Home

Lt. 3A Blk. _____ Sub. Name _____

4. USE:

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

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

6. DRILL METHOD

☒ Air Rotary ☐ Cable ☐ Mud Rotary ☐ Other _____

7. SEALING PROCEDURES

SEAL/FILTER PACK	AMOUNT	METHOD
Material From To	Feet	
<u>Cement</u> <u>0</u> <u>19</u> <u>13</u>		<u>Cement</u>

Was drive shoe used? ☒ Y ☐ N Shoe Depth(s) 405
Was drive shoe seal tested? ☒ Y ☐ N How? OK

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
<u>8"</u>	<u>0</u>	<u>405</u>	<u>2.30</u>	<u>Steel</u>	☒	☐	☐	☐

Length of Headpipe 10 Length of Tailpipe 0

8. PERFORATIONS/SCREENS

Perforations Method Factory Port
Screens Screen Type Stainless Steel

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
<u>405</u>	<u>415</u>	<u>16</u>		<u>5"</u>	<u>Stainless</u>	☒	☐

10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

350 ft. below ground Artesian pressure 0 lb.
Depth flow encountered 405 ft. Describe access port or control devices: Well cap

11. WELL TESTS:

☒ Pump ☐ Bailor

Yield gal/min.	Drawdown	Pumping Level	Time
<u>20</u>		<u>405</u>	<u>6 hours</u>

Water Temp. 85 F or less Bottom hole temp. same

Water Quality test or comments:

Good clean water Depth first Water Encountered 405

12. LITHOLOGIC LOG: (Describe repairs or abandonment)

Sec	from	To	Remarks: Lithology, Water Quality & Temperature	Water
<u>10</u>	<u>0</u>	<u>5</u>	<u>Top soil</u>	☒
<u>5</u>	<u>10</u>	<u>10</u>	<u>Sand</u>	☐
<u>10</u>	<u>10</u>	<u>48</u>	<u>Sandy Clay Brown</u>	☐
<u>48</u>	<u>112</u>	<u>112</u>	<u>Hard Clay</u>	☐
<u>112</u>	<u>160</u>	<u>160</u>	<u>Brown Clay</u>	☐
<u>160</u>	<u>175</u>	<u>175</u>	<u>Lava</u>	☐
<u>175</u>	<u>240</u>	<u>240</u>	<u>Brown Clay</u>	☐
<u>240</u>	<u>270</u>	<u>270</u>	<u>Gravel Clay</u>	☐
<u>270</u>	<u>315</u>	<u>315</u>	<u>Lava</u>	☐
<u>315</u>	<u>398</u>	<u>398</u>	<u>Sandy Clay</u>	☐
<u>398</u>	<u>405</u>	<u>405</u>	<u>Clay</u>	☐
<u>405</u>	<u>415</u>	<u>415</u>	<u>Gravel & Sand</u>	☒

RECEIVED

NOV 23 2001

WATER RESOURCES
WESTERN REGION

Completed Depth 415' (Measurable)
Date: Started 8/14/01 Completed 9/8/01

13. DRILLER'S CERTIFICATION

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

Company Name Decision Well Drilling Firm No. 522

Firm Official J. R. Lawson Date 11-22-01

and
Driller or Operator J. R. Lawson Date 11/14/01
(Sign once if Firm Official & Operator)

FORWARD WHITE COPY TO WATER RESOURCES

IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

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

1. DRILLING PERMIT NO.

Other IDWR No. D0009419

2. OWNER:

Name Robert Erickson

Address 9951 Lariat St.

City Boise

State ID

Zip 83703

3. LOCATION OF WELL by legal description:

Sketch map location must agree with written location

N

W	E	S	Twp. 1 North ☐ or South X
			Rge. 5 East X or West ☐
			Sec. 29 1/4 NW 1/4 SE 1/4
			Gov't lot County Elmore

Lat:

Long:

Address of Well Site Soles Rest Creek Rd.

City Tippanuk

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

Lt.

Blk.

Sub. Name

4. USE:

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

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

☒ New Well ☐ Modify ☐ Abandonment ☐ Other

6. DRILL METHOD

☐ Air Rotary ☐ Cable X Mud Rotary ☐ Other

7. SEALING PROCEDURES

SEAL/FILTER PACK		AMOUNT		METHOD
Material	From	To	Sacks or Pounds	
Bentonite	0	20	900 lbs	Overbore

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

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

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
6.625	+2	387	.250	Steel	☐	☐	☐	☐
					☐	☐	☐	☐
					☐	☐	☐	☐

Length of Headpipe

Length of Tailpipe

9. PERFORATIONS/SCREENS

☒ Perforations Method Factory

☐ Screens Screen Type

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
387	400	.125	360	6.625	Steel	X	☐
						☐	☐
						☐	☐

10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

262 ft. below ground

Artesian Pressure

Depth flow encountered

Describe access port or control devices:

11. WELL TESTS:

☐ Pump ☐ Bailor ☐ Air ☐ Flowing Artesian

Yield gal/min.	Drawdown	Pumping Level	Time
20+	280		3.5 Hr.

Water Temp.

Bottom hole temp.

Water Quality test or comments:

Depth first Water Encountered

12. LITHOLOGIC LOG: (Describe repairs or abandonment)

Water				Remarks: Lithology, Water Quality & Temp.		Y	N
Bore Dia	From	To					
10	0	4		Top Soil		☒	X
10	4	8		Hard Pan		☒	X
10-8	8	23		Sand		☒	X
8	23	42		Sand & Clay Seam		☒	X
8	42	55		Clay		☒	X
8	55	70		Gray Lava		☒	X
8	70	72		Coarse Sand		☒	X
8	72	78		Decomposed Granite		☒	X
8	78	85		Tan Clay		☒	X
8	85	128		Clay & Sand Seam		☒	X
8	128	133		Cinder		☒	X
8	133	142		Cinder & Clay Seam		☒	X
8	142	164		Brown Clay		☒	X
8	164	170		Black Cinder		☒	X
8	170	182		Black Cinder & Clay Seam		☒	X
8	182	186		Brown Clay		☒	X
8	186	200		Granite, Sand, & Some Clay		☒	X
8	200	226		Tan Clay		☒	X
8	226	257		Tan Clay & Sand Seam		☒	X
8	257	260		Coarse Sand		☒	X
8	260	287		Tan Clay		☒	X
8	287	300		Tan Clay & Sand Seam		☒	X
8	300	320		Soft Tan Clay		☒	X
8	320	325		Tan Clay & Sand Seam		☒	X
8	325	328		Decomposed Granite		☒	X
8	328	348		Tan Clay & Sand Seam		☒	X
8	348	351		Sand & Some Clay		☒	X
8	351	385		Tan Clay		☒	X
8	385	395		Tan Clay & Sand Seam		☒	X

Page: 1 of 2

Completed Depth: 400

(Measurable)

Date: Started 6-8-99

Completed 6-26-99

13. DRILLER'S CERTIFICATION

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

Firm Name Hiddleston & Son, Inc.

Firm No. 35

Firm Official

Date 7/8/99

Supervisor or Operator

Date

(Sign once if Firm Official & Operator)

JUL 15 1999

WATER RESOURCES
WESTERN REGION

Form 238-7
6/02

IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

Office Use Only		
Well ID No.	804916	
Inspected by		
Twp	Rge	Sec
1/4	1/4	1/4
Lat	:	Long

1. WELL TAG NO. D 0029693
DRILLING PERMIT NO. _____
Water Right or Injection Well No. _____

2. OWNER:
Name Bob Ruth
Address 1950 W. Lemhi
City Boise State ID Zip 83705

3. LOCATION OF WELL by legal description:

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

Twp. 1 North ☐ or South ☒
Rge. 5 East ☒ or West ☐
Sec. 29 SW 1/4 SE 1/4 NE 1/4
Gov't Lot _____
County Elmore
Lat: _____ Long: _____
Address of Well Site 19550 N. Del Norte
City Altn Home

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

Lot _____ Blk. _____ Sub. Name Solo's Rest

4. USE:

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

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

☒ New Well ☐ Modify ☐ Abandonment ☐ Other _____

6. DRILL METHOD:

☒ Air Rotary ☐ Cable ☐ Mud Rotary ☐ Other _____

7. SEALING PROCEDURES

Seal Material	From	To	Weight / Volume	Seal Placement Method
Bentonite	0	253	2100 #	overbore

Was drive shoe used? ☒ Y ☐ N Shoe Depth(s) 520'
Was drive shoe seal tested? ☐ Y ☒ N How? _____

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
6"	+2	520	250	Steel	☒	☐	☒	☐

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

9. PERFORATIONS/SCREENS PACKER TYPE

Perforation Method Star pack
Screen Type & Method of Installation open

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
343	365	1/4"			Steel	☐	☐
			4 times	around		☐	☐

10. FILTER PACK

Filter Material	From	To	Weight / Volume	Placement Method

11. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

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

12. WELL TESTS:

☐ Pump ☐ Baller ☒ Air ☐ Flowing Artesian

Yield gal./min.	Drawdown	Pumping Level	Time
30			1 hour

Water Temp. _____ Bottom hole temp. _____

Water Quality test or comments: _____

13. LITHOLOGIC LOG: (Describe repairs or abandonment)

Bore Dia.	From	To	Remarks: Lithology, Water Quality & Temperature	Y	N
10"	0	4	soil		
"	4	20	soil & clay		
8"	20	26	clay		
"	26	32	gravel		
"	32	65	clay & gravel		
"	65	95	lava		
"	95	280	clay & soft granite		
"	280	365	clay & soft granite	X	
6"	365	387	gravel & big sand		
"	387	428	tan clay		
"	428	480	gray clay		
"	480	520	gray clay		
"	520	800	gray clay		

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AUG 04 2003

WATER RESOURCES
WESTERN REGION

Completed Depth 800' (Measurable)
Date: Started 7-17-03 Completed 7-30-03

14. DRILLER'S CERTIFICATION

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

Company Name Adams Pump & Drilling Firm No. 451

Principal Driller Steve Adams Date 7-31-03

and Driller or Operator II Andy Ray Date 7-31-03

Operator I _____ Date _____

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

FORWARD WHITE COPY TO WATER RESOURCES

IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

787039

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

1. WELL TAG NO. D 0025363
DRILLING PERMIT NO. _____
Other IDWR No. _____

2. OWNER:
Name Jeff & Carey Fowers
Address 324 N. Allenbaugh
City Bowen State Id Zip 83604

3. LOCATION OF WELL by legal description:

Sketch map location must agree with written location.

North ☒ or South ☒
East ☒ or West ☐
Twp. 1 Rge. 5 Sec. 29
Gov't Lot _____ County Elmore
Lat _____ Long _____

Address of Well Site North end to 19834
N. Carson's Place City Alma Home

Li. _____ Bk. _____ Sub. Name Sole's Rest

4. USE:

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

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

☒ New Well ☐ Modify ☐ Abandonment ☐ Other _____

6. DRILL METHOD

☒ Air Rotary ☐ Cable ☐ Mud Rotary ☐ Other _____

7. SEALING PROCEDURES

SEAL/FILTER PACK	AMOUNT	METHOD
Material	From To Sacks or Pounds	
Bentonite	0 30 500#	over bore

Was drive shoe used? ☒ Y ☐ N Shoe Depth(s) 449

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

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
6"	12	449	250	Steel	☒	☐	☒	☐

Length of Headpipe 12' Length of Tailpipe _____

9. PERFORATIONS/SCREENS

Perforations Method wash down
Screens Screen Type Johnson

From	To	Slt Size	Number	Diameter	Material	Casing	Liner
455	465	.020		5"	SS	☐	☐

10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

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

11. WELL TESTS:

☐ Pump ☐ Bailor ☒ Air ☐ Flowing Artesian

Yield gal/min.	Drawdown	Pumping Level	Time
30			1 hour

Water Temp. _____ Bottom hole temp. _____

Water Quality test or comments: _____

Depth first Water Encounter 390'

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

Bore Dia.	From	To	Remarks: Lithology, Water Quality & Temperature	Y	N
10"	0	4	top soil		
"	4	20	clay		
"	20	40	clay		
"	40	79	clay		
"	79	86	red clay & coarse sand		
"	86	160	red clay & sand		
"	160	175	clay		
"	175	220	conglomerate		
"	220	240	clay & white granite & clay		
"	240	300	brown clay		
"	300	390	brown clay & granite		
"	390	400	granite		
"	400	437	clay & coarse sand		
"	437	455	brown clay		
"	455	460	clay & sand		
"	460	465	sand		

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OCT 07 2002

WATER RESOURCES
WESTERN REGION

Completed Depth 465' (Measurable)
Date: Started 9-25-02 Completed 9-28-02

13. DRILLER'S CERTIFICATION

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

Company Name Adamsen Pump & Drilling Co. 457

Firm Official Steve Adamsen Date 9-30-02

and Driller or Operator Andy Ray Date 9-30-02
(Sign only if Firm Official & Operator)

IDAHO DEPARTMENT OF WATER RESOURCES

WELL DRILLER'S REPORT

Office Use Only		
Well ID No.	813430	
Inspected by		
Twp	Rge	Sec
1/4	1/4	1/4
Lat:	:	Long:

1. WELL TAG NO. D

0031141

DRILLING PERMIT NO.

Water Right or Injection Well No.

2. OWNER:

Name Crown Point Construction
Address 7471 Arlington
City Nampa State Id Zip 83687

3. LOCATION OF WELL by legal description:

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

Twp. 1 North ☐ or South ☒
Rge. 5 East ☒ or West ☐
Sec. 29 1/4 SW 1/4 SE 1/4
Gov't Lot 19750 N. Cairns
Lat: : : Long: :
Address of Well Site 19750 N. Cairns
City Mtn Home

(Show at least name of road or distance to road or landmark)

Lt. : Blk. : Sub. Name Sales Rest

4. USE:

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

5. TYPE OF WORK check all that apply

(Replacement etc.)

☒ New Well ☐ Modify ☐ Abandonment ☐ Other

6. DRILL METHOD:

☒ Air Rotary ☐ Cable ☐ Mud Rotary ☐ Other

7. SEALING PROCEDURES

Seal Material	From	To	Weight / Volume	Seal Placement Method
<u>Bentonite</u>	<u>0</u>	<u>394</u>	<u>6300#</u>	<u>overbore</u>

Was drive shoe used? ☒ Y ☐ N Shoe Depth(s) 460Was drive shoe seal tested? ☐ Y ☒ N How?

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
<u>6"</u>	<u>+2</u>	<u>460</u>	<u>250</u>	<u>Steel</u>	☒ Y	☐ N	☒ Y	☐ N

Length of Headpipe 40 Length of TailpipePacker ☒ Y ☐ N Type K Packer

9. PERFORATIONS/SCREENS PACKER TYPE

Perforation Method

Screen Type & Method of Installation Nogacka wash down

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
<u>485</u>	<u>495</u>	<u>.020</u>		<u>5"</u>	<u>SS</u>	☐ N	☐ N

10. FILTER PACK

Filter Material	From	To	Weight / Volume	Placement Method

11. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

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

well cap

12. WELL TESTS:

☐ Pump ☐ Bailor ☒ Air ☐ Flowing Artesian

Yield gal./min.	Drawdown	Pumping Level	Time
<u>20-25</u>			<u>1 hour</u>

Water Temp.

Bottom hole temp.

Water Quality test or comments: Iron .5 PH 8Grains 4Depth first Water Encounter 433

13. LITHOLOGIC LOG: (Describe repairs or abandonment)

Water

Bore Dia.	From	To	Remarks: Lithology, Water Quality & Temperature	Y	N
<u>10</u>	<u>0</u>	<u>3</u>	<u>top soil</u>		
<u>"</u>	<u>3</u>	<u>23</u>	<u>clay & sand</u>		
<u>"</u>	<u>23</u>	<u>34</u>	<u>clay</u>		
<u>"</u>	<u>34</u>	<u>75</u>	<u>lava</u>		
<u>"</u>	<u>75</u>	<u>394</u>	<u>clay & granite</u>		
<u>"</u>	<u>394</u>	<u>433</u>	<u>clay</u>		
<u>"</u>	<u>433</u>	<u>450</u>	<u>clay & big sand</u>	☒	
<u>"</u>	<u>450</u>	<u>480</u>	<u>hard clay</u>		
<u>"</u>	<u>480</u>	<u>485</u>	<u>clay</u>		
<u>"</u>	<u>485</u>	<u>495</u>	<u>sand</u>		☒

RECEIVED

MAY 03 2004

WATER RESOURCES
WESTERN REGIONCompleted Depth 495 (Measurable)Date: Started 4:20:04 Completed 4:23:04

14. DRILLER'S CERTIFICATION

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

Company Name ABE Well Drilling Firm No. 621Principal Driller Andy Payne Date 4/27/04and Driller or Operator II Andy Payne Date 4/27/04

Operator I _____ Date _____

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

FORWARD WHITE COPY TO WATER RESOURCES

IDAHO DEPARTMENT OF WATER RESOURCES WELL DRILLER'S REPORT

827655

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

1. DRILLING PERMIT NO _____
Other IDWR No. D0038544
2. OWNER:
Name Bill Ennis
Address 1250 W 39 S
City Mtn Home State ID Zip 83647
3. LOCATION OF WELL by legal description:
Sketch map location must agree with written location

W  E
Twp. 1 North ☒ or South ☒
Rge. 5 East ☒ or West ☐
Sec. 29 1/4 SW 1/4 SE 1/4
Gov't lot _____ County Elmore

Lat: _____ Long: _____
Address of Well Site Del Sol Place
City Mtn Home
(Give at least name of road, distance to road or landmark)
Lt. 6 Blk. 1 Sub. Name Rancho Del Sol

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

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

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

7. SEALING PROCEDURES

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

Was drive shoe used? ☒ Y ☐ N Shoe Depth(s) 455
Was drive shoe seal tested? ☐ Y ☒ N How?

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
6 5/8	2	455	250	Steel	☒	☐	☒	☐

Length of Headpipe _____ Length of Tailpipe _____

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

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
						☐	☐

10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

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

11. WELL TESTS:

☐ Pump ☐ Bailor ☒ Air ☐ Flowing Artesian

Yield gal/min	Drawdown	Pumping Level	Time
20 gpm			

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

12. LITHOLOGIC LOG: (Describe repair or abandonment)

Water				Remarks: Lithology, Water Quality & Temp.	Y	N
Bore Dia	From	To				
10"	0	5	Top soil			
10-6	5	55	Brown clay			
6"	55	90	Gray lava			
6"	90	95	Red Cinder and gray lava			
6"	95	110	Tan sand			
6"	110'	175'	Brown clay and sand seam			
6"	175'	180'	Reddish brown clay			
6"	180'	255'	Cinder and brown clay			
6"	255'	270'	Gray lava and brown clay			
6"	270'	275'	Granite sand			
6"	275'	375'	Clay and granite sand			
6"	375'	466'	Sand granite			

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JAN 19 2005

WATER RESOURCES
WESTERN REGION

Completed Depth: 455 (Measurable)
Date: Started 12-27-04 Completed 12-31-04

13. DRILLER'S CERTIFICATION

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

Firm Name Hiddleston & Son, Inc. Firm No. 35
Firm Official John William Date 1-11-05
Supervisor or Operator John Smith Date 1-16-05
(Sign once if Firm Official & Operator)

Form 238-7
6/02

IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

837724

Office Use Only
Well ID No. 408166
Inspected by _____
Twp _____ Rge _____ Sec _____
1/4 _____ 1/4 _____ 1/4 _____
Lat: _____ Long: _____

1. WELL TAG NO D D00 42228

DRILLING PERMIT NO _____

Water Right or Injection Well No _____

2. OWNER:

Name John Verlmann

Address 2040 Airport Way

City Boise State Id Zip 83705

3. LOCATION OF WELL by legal description:

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

Twp 1S North ☐ or South ☒

Rge 5E East ☒ or West ☐

Sec 29 1/4 SW 1/4 SE 1/4

Gov't Lot _____ County Elmore

Lat: _____ Long: _____

Address of Well Site 19798 N. Cairnes Place

City Mountain Home

Lot _____ Blk _____ Sub Name Sales Rest

4. USE:

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

5. TYPE OF WORK check all that apply

☒ New Well ☐ Modify ☐ Abandonment ☐ Other (Replacement etc)

6. DRILL METHOD:

☒ Air Rotary ☐ Cable ☐ Mud Rotary ☐ Other

7. SEALING PROCEDURES

Seal Material	From	To	Weight / Volume	Seal Placement Method
#8 Crumbles	380	0	1500 lbs	Overbore

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

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

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
6"	469	250		Steel	☒	☐	☒	☐

Length of Headpipe 15' Length of Tailpipe _____

Packer ☒ Y ☐ N Type K Packer

9. PERFORATIONS/SCREENS PACKER TYPE

Perforation Method _____

Screen Type & Method of Installation Johnson Washdown

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
477	472	.018		5"	SS	☐	☐

10. FILTER PACK

Filter Material	From	To	Weight / Volume	Placement Method

11. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

353 ft below ground

Artesian pressure _____ lb

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

12. WELL TESTS:

☐ Pump ☐ Bailor ☒ Air ☐ Flowing Artesian

Yield gal/min.	Drawdown	Pumping Level	Time
20 GPM			1 hour

Water Temp. 57°

Bottom hole temp _____

Water Quality test or comments: Iron .5 Hardness 5.0

PH 7.5

Depth first Water Encounter 383

13. LITHOLOGIC LOG: (Describe repairs or abandonment)

Boe Dia.	From	To	Remarks: Lithology Water Quality & Temperature	Y	N
10	0	4	Top Soil		
10	4	24	Clay w/ some rock		
8	24	55	Tan Clay		
7	55	88	lava rock		
7	88	96	Clay w/ pea gravel		
7	96	383	sandy clay		
7	383	388	Sand	X	
7	388	417	Sandy Clay		
6	417	468	Clay		
6	468	477	Sand	X	

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DEC 19 2005

WATER RESOURCES
WESTERN REGION

Completed Depth 477' (Measurable)

Date: Started 12-1-05 Completed 12-14-05

14. DRILLER'S CERTIFICATION

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

Company Name Adamson Pump & Drilling Firm No 457

Principal Driller Steve Adamson Date 12-15-05

and Driller or Operator II David Gillars Date 12-15-05

Operator I Wade Montgomery Date 12-15-05

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

FORWARD WHITE COPY TO WATER RESOURCES

(Sign once for Firm Official & Operator)

IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

Office Use Only
Well ID No. 805799
Inspected by _____
Twp _____ Rge _____ Sec _____
1/4 1/4 1/4
Lat: _____ Long: _____

1. WELL TAG NO. D 0029868
DRILLING PERMIT NO. _____
Water Right or Injection Well No. _____

2. OWNER:
Name Daniel M. Hennis
Address 1811 Meru Landing Dr
City Oasis State Id Zip 83647

3. LOCATION OF WELL by legal description:
You must provide address or Lot, Blk, Sub. or Directions to well.
Twp. 1 North ☐ or South ☒
Rge. 5 East ☒ or West ☐
Sec. 30 1/4 SW 1/4 NE 1/4
Gov't Lot _____
County Elmore
Lat: _____ Long: _____
Address of Well Site 1811 Meru Landing Dr
City Oasis
(City is most name of road - Distance to Road or Landmark)
Li. 6 Blk. _____ Sub. Name Oasis Sub

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

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

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

7. SEALING PROCEDURES

Seal Material	From	To	Weight / Volume	Seal Placement Method
<u>Bentonite</u>	<u>0</u>	<u>390</u>	<u>1850*</u>	<u>Over bore</u>

Was drive shoe used? ☒ ☐ N Shoe Depth(s) 418'
Was drive shoe seal tested? ☐ Y ☒ N How? _____

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
<u>6"</u>	<u>+2</u>	<u>418</u>	<u>250</u>	<u>Steel</u>	☒	☐	☒	☐

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

9. PERFORATIONS/SCREENS PACKER TYPE

Perforation Method _____
Screen Type & Method of Installation none - open bottom

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

10. FILTER PACK

Filter Material	From	To	Weight / Volume	Placement Method

11. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

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

12. WELL TESTS:

Yield gal./min.	Drawdown	Pumping Level	Time
<u>20</u>			<u>45 minutes</u>

Water Temp. 60° Bottom hole temp. _____
Water Quality test or comments: Fron 2.5 PH 7.0
Grains 6 Depth first Water Encounter 390'

13. LITHOLOGIC LOG: (Describe repairs or abandonment)

Bore Dia.	From	To	Remarks: Lithology, Water Quality & Temperature	Y	N
<u>10</u>	<u>0</u>	<u>2</u>	<u>Fill</u>		
"	<u>2</u>	<u>6</u>	<u>clay</u>		
"	<u>6</u>	<u>28</u>	<u>sand, big gravel</u>		
"	<u>28</u>	<u>83</u>	<u>lava</u>		
"	<u>83</u>	<u>187</u>	<u>Red sandstone & clay</u>		
"	<u>187</u>	<u>340</u>	<u>Soft granite, clay layers</u>		
"	<u>340</u>	<u>390</u>	<u>Sand, granite, clay</u>		
"	<u>390</u>	<u>406</u>	<u>sand</u>	☒	
"	<u>406</u>	<u>412</u>	<u>clay</u>		
"	<u>412</u>	<u>418</u>	<u>sand</u>		
"	<u>418</u>	<u>427</u>	<u>clay</u>		
"	<u>427</u>	<u>440</u>	<u>clay & sand</u>	☒	

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JUL 19 2004

WATER RESOURCES
WESTERN REGION

Completed Depth 440' (Measurable)
Date: Started 7.12.04 Completed 7.15.04

14. DRILLER'S CERTIFICATION

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

Company Name Adamsen Pump & Drilling Firm No. 457
Principal Driller Edwin Thompson Date 7.15.04
and
Driller or Operator II Andy Ray Date 7.15.04
Operator I _____ Date _____

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

FORWARD WHITE COPY TO WATER RESOURCES

IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

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

1. WELL TAG NO. D 0007531
 DRILLING PERMIT NO. 61-98-41-0056-000
 Other IDWR No. _____

2. OWNER:
Name Don Hennis & Jim Darrington
Address 8000 N. Old Hwy 30
City Attn Home State Id Zip 83417

3. LOCATION OF WELL by legal description:

Sketch map location must agree with written location.

N
 W E S
 Twp. 1 North ☐ or South ☒
 Rge. 5 East ☒ or West ☐
 Sec. 30 SW 1/4 NE 1/4 1/4 1/4 1/4 1/4
 Gov't Lot _____ County Elmore 10 100 acres
 Lat: _____ Long: _____
 Address of Well Site 8000 N. Rd.
 City Attn Elmore
 (Give at least name of road or distance to road or landmark)
 Hwy 30

Lt. Blk. Sub. Name

4. USE:

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

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

6. DRILL METHOD

☒ Air Rotary ☐ Cable ☐ Mud Rotary ☐ Other _____

7. SEALING PROCEDURES

SEAL/FILTER PACK			AMOUNT	METHOD
Material	From	To	Sacks or Pounds	
Bentonite	0	20	25 bags	Over bore

Was drive shoe used? ☒ ☐ N Shoe Depth(s) 438

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

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threads
6"	42	438	250	Steel	☒	☐	☒	☐
					☐	☐	☐	☐
					☐	☐	☐	☐

Length of Headpipe _____ Length of Tailpipe _____

9. PERFORATIONS/SCREENS

Performations

Method

Screens

Screen Type

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

10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

350 ft. below ground Artesian pressure lb.

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

67583
11. WELL TESTS:

☐ Pump ☐ Bailer☐ Pump ☐ Bailer☒ Air ☐ Flowing Artesian

Yield gal./min.	Drawdown	Pumping Level	Time
15			7hr

Water Temp. 64° Bottom hole temp. _____

Water Quality test or comments: Iron 2.0 PH. 8

Death first Water Encounter

12. LITHOLOGIC LOG: (describe repairs or abandonment)

Bore Dia.	From	To	Remarks: Lithology, Water Quality & Temperature	Y	N
10	0	2	Hard clay		
"	2	6	Sand		
"	6	20	Clay & gravel pieces		
"	20	27	Clay & gravel pieces		
"	27	29	coarse sand.	X	
"	29	36	clay		
"	36	42	sand		
"	42	51	Black lava		
"	51	54	Gravel		
"	54	90	Black basalt		
"	90	215	soft decomposed granite w/ sand streaks		
"	215	222	hard basalt		
"	222	258	decomposed granite		
"	258	263	med hard basalt		
"	263	365	decomposed granite		
"	365	390	sand		
"	390	404	decomposed gravel		
"	404	430	sand		
"	430	435	decomposed granite		
"	435	446	decomposed granite		
"	446	465	sand		
"	465		clay		

MICROFILMED

RECEIVED
SEP 30 1998

RECEIVED
SEP 29 1998

WATER RESOURCES
WESTERN REGION

Completed _____

Date: Started 8-28-98

Depth 465

Completed 9-15-98

(Measurable)

13. DRILLER'S CERTIFICATION

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

Company Name Edmonson Pump & Drill No. 0457

Firm Official W. S. W. W. W. Date 9.24.98

and
Driller or Operator W.B. [Signature] 9.24.28

(Sign once if Firm Official & Operator)

Form 238-7
6/02

IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

845248

Office Use Only
Well ID No. 415340
Inspected by _____
Twp _____ Rge _____ Sec _____
1/4 _____ 1/4 _____ 1/4 _____
Lat: _____ Long: _____

1. WELL TAG NO. D D0047766
DRILLING PERMIT NO. _____
Water Right or Injection Well No. _____

2. OWNER:
Name LOREN WILSON
Address 5300 S. PONY AVE.
City BOISE State ID. Zip 83709

3. LOCATION OF WELL by legal description:
You must provide address or Lot, Blk, Sub. or Directions to well.
Twp. 1 North ☐ or South ☒
Rge. 5 East ☒ or West ☐
Sec. 30 SE 1/4 NE 1/4 1/4
Gov't Lot _____
County ELMORE
Lat: 43° 18.603' N Long: 115° 53.871' W
Address of Well Site 1956 E. BONANZA CT.
City MOUNTAIN HOME
(Draw all legal name of road - (Describe to Road or Landmark)
Li. 36 Blk. 1 Sub. Name RED BARON EST.

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

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

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

7. SEALING PROCEDURES

Seal Material	From	To	Weight / Volume	Seal Placement Method
<u>5/8 BENTONITE</u>	<u>0</u>	<u>20</u>	<u>750 lbs.</u>	<u>10" OVERBORE</u>

Was drive shoe used? ☒ Y ☐ N Shoe Depth(s) 438'
Was drive shoe seal tested? ☐ Y ☒ N How? _____

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
<u>6"</u>	<u>+2</u>	<u>438'</u>	<u>.250</u>	<u>STEEL</u>	☒	☐	☒	☐
<u>5"</u>	<u>424</u>	<u>446</u>	<u>.258</u>	<u>STEEL</u>	☐	☒	☒	☐
<u>5"</u>	<u>456</u>	<u>457</u>	<u>.258</u>	<u>STEEL</u>	☐	☒	☒	☐

Length of Headpipe 21.8 Length of Tailpipe 1.0
Packer ☒ Y ☐ N Type RUBBER K-PACKER

9. PERFORATIONS/SCREENS PACKER TYPE

Perforation Method _____
Screen Type & Method of Installation JOHNSON / WASHDOWN

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
<u>446</u>	<u>456</u>	<u>.020</u>	<u>304</u>	<u>5"</u>	<u>S.S.</u>	☐	☒

10. FILTER PACK

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

11. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

320 ft.

12. WELL TESTS:

Yield gal./min.	Drawdown	Pumping Level	Tin
<u>25</u>			<u>1.1</u>

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

13. LITHOLOGIC LOG: (Describe repairs or abandonment)

Bore Dia.	From	To	Remarks: Lithology, Water Quality & Temperature
<u>10"</u>	<u>0</u>	<u>2</u>	<u>TOP SOIL</u>
	<u>2</u>	<u>8</u>	<u>SAND</u>
	<u>8</u>	<u>20</u>	<u>SANDY CLAY</u>
<u>6"</u>	<u>20</u>	<u>40</u>	<u>SANDY CLAY</u>
	<u>40</u>	<u>96</u>	<u>LTA ROCK</u>
	<u>96</u>	<u>200</u>	<u>CEMENTED GRAVEL</u>
	<u>200</u>	<u>235</u>	<u>COARSE SAND</u>
	<u>235</u>	<u>320</u>	<u>SAND W/CLAY STREAKS</u>
<u>6"</u>	<u>320</u>	<u>380</u>	<u>SANDY CLAY W/SAND</u>
	<u>380</u>	<u>395</u>	<u>CLAY</u>
	<u>395</u>	<u>418</u>	<u>SAND STREAKS</u>
	<u>418</u>	<u>420</u>	<u>CLAY</u>
	<u>420</u>	<u>428</u>	<u>SAND</u>
	<u>428</u>	<u>450</u>	<u>SANDY CLAY</u>
	<u>450</u>	<u>457</u>	<u>COARSE SAND</u>

Completed Depth 457' (Measure)
Date Started 2/6/07 Completed 2/9/07

14. DRILLER'S CERTIFICATION

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

Company Name D P W D Firm No. 3
Principal Driller Mark [Signature] Date 2/12/07

Form 238-7
6/02

IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

849367

Office Use Only
Well ID No. 419256
Inspected by _____
Twp _____ Rge _____ Sec _____
1/4 1/4 1/4
Lat: _____ Long: _____

1. WELL TAG NO. D 0052107
DRILLING PERMIT NO. _____
Water Right or Injection Well No. _____

2. OWNER:
Name Harold Pettibone
Address 2256 S Mobile Dr
City Boise State Id Zip 83709

3. LOCATION OF WELL by legal description:

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

Twp. 1 North ☐ or South ☒
Rge. 5 East ☒ or West ☐
Sec. 30 1/4 SE 1/4 NW 1/4
Gov't Lot _____ County _____

Lat: _____ Long: _____
Address of Well Site 2715 Desert Wind
City Mt Home

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

4. USE:

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

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

☒ New Well ☐ Modify ☐ Abandonment ☐ Other _____

6. DRILL METHOD:

☒ Air Rotary ☐ Cable ☐ Mud Rotary ☐ Other _____

7. SEALING PROCEDURES

Seal Material	From	To	Weight / Volume	Seal Placement Method
Bentonite/Cracks	50	300	1000#	Overbore

Was drive shoe used? ☒ Y ☐ N Shoe Depth(s) 440'

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

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
6"	+2	440	250	Steel	☒	☐	☒	☐

Length of Headpipe 8' Length of Tailpipe _____

Packer ☒ Y ☐ N Type K-Packer

9. PERFORATIONS/SCREENS PACKER TYPE

Perforation Method _____

Screen Type & Method of Installation Johnson Washdown

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
440	480	.018		5"	SS	☐	☐

10. FILTER PACK

Filter Material	From	To	Weight / Volume	Placement Method

11. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

405 ft. below ground Artesian pressure lb. _____

12. WELL TESTS:

☐ Pump ☐ Bailor ☒ Air ☐ Flowing Artesian

Yield gal./min.	Drawdown	Pumping Level	Tirr
15			2

Water Temp. 72° Bottom hole temp. _____

Water Quality test or comments: _____

Depth first Water Encounter 3

13. LITHOLOGIC LOG: (Describe repairs or abandonment)

Bore Dia.	From	To	Remarks: Lithology, Water Quality & Temperature
10	0	18	Tan Clay
8	18	162	Tan Clay w/ Sand Coarse
8	162	305	Tan Clay
8	305	340	Sandy Clay
6	340	378	Sandy Clay
	378	391	Sand
	391	440	Clay
	440	446	Sand
	446	456	Clay
	456	480	Sand

RECEIVED

OCT 25 2007

WATER RESOURCES
WESTERN REGION

Completed Depth 480' (Measure)

Date: Started Oct. 9. 2007 Completed Oct. 18. 2007

14. DRILLER'S CERTIFICATION

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

Company Name Adamson Pump & Drilling Firm No. 457

Principal Driller David Pettibone Date 10-19
and David Pettibone 10-19-07

61
Form 238-7
6/02

IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

844723
Office Use Only
Well ID No. 414881
Inspected by
Twp 1S Rge 5E Sec 30
1/4 NE 1/4 SE 1/4
Lat: Long:

1. WELL TAG NO. D D00 47430
DRILLING PERMIT NO. _____
Water Right or Injection Well No. _____

2. OWNER:
Name Picky Tullis
Address 1969 West Red Feather Way
City Meridian State ID Zip 83646

3. LOCATION OF WELL by legal description:
You must provide address or Lot, Blk, Sub. or Directions to well.
Twp. _____ North ☐ or South ☒
Rge. 5 East ☒ or West ☐
Sec. 30 1/4 NE 1/4 SE 1/4
Gov't Lot _____ County Elmore
Lat: _____ Long: _____
Address of Well Site R75 Aerona

(Circle all that apply to well - Distance to Point or Landmark)
City Mountain Home
Lt. 7 Blk. 1 Sub. Name Red Baron Estates

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

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

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

7. SEALING PROCEDURES

Seal Material	From	To	Weight / Volume	Seal Placement Method
<u>Best Seal Cement</u> <u>Cumbriles</u>	<u>0</u>	<u>310</u>	<u>3500#</u>	<u>Over bore</u>

Was drive shoe used? ☒ Y ☐ N Shoe Depth(s) 448'
Was drive shoe seal tested? ☐ Y ☒ N How? _____

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
<u>6"</u>	<u>+2</u>	<u>448.250</u>	<u>260</u>	<u>Steel</u>	☒	☐	☒	☐

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

9. PERFORATIONS/SCREENS PACKER TYPE

Perforation Method					
Screen Type & Method of Installation					
From	To	Slot Size	Number	Diameter	Material

10. FILTER PACK

Filter Material	From	To	Weight / Volume	Placement Method

11. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

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

12. WELL TESTS:

Yield gal./min.	Drawdown	Pumping Level	Time
<u>30</u>			<u>2 hr</u>

Water Temp. cdd Bottom hole temp. _____

Water Quality test or comments: _____

13. LITHOLOGIC LOG: (Describe repairs or abandonment) Depth first Water Encounter 370'

Bore Dia.	From	To	Remarks: Lithology, Water Quality & Temperature	Y	N
<u>10</u>	<u>0</u>	<u>4</u>	<u>Top Soil</u>		
<u>10</u>	<u>4</u>	<u>18</u>	<u>Tan Clay</u>		
<u>8</u>	<u>18</u>	<u>55</u>	<u>Tan Clay</u>		
<u>8</u>	<u>55</u>	<u>92</u>	<u>Lava Rock</u>		
<u>8</u>	<u>92</u>	<u>163</u>	<u>Clay</u>		
<u>8</u>	<u>163</u>	<u>211</u>	<u>Clay w/ Big Sand Pieces</u>		
<u>8</u>	<u>211</u>	<u>370</u>	<u>Clay</u>		
<u>6</u>	<u>370</u>	<u>402</u>	<u>Sandy Clay</u>	☒	
	<u>402</u>	<u>409</u>	<u>Sand</u>	☒	
	<u>409</u>	<u>427</u>	<u>Clay</u>		
	<u>427</u>	<u>438</u>	<u>Sand</u>	☒	
	<u>438</u>	<u>448</u>	<u>Clay Sand layers</u>		
	<u>448</u>	<u>450</u>	<u>Sand</u>	☒	
	<u>450</u>	<u>459</u>	<u>Sand & Clay layers</u>	☒	

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NOV 06 2006

WATER RESOURCES
WESTERN REGION

Completed Depth 451 (Measurable)

Date: Started 10-20-06 Completed 10-27-06

14. DRILLER'S CERTIFICATION

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

Company Name Adamson Pump & Drilling Firm No. 457

Principal Driller Steve Adamson Date 10-30-06

and Driller or Operator II Daniel Gibson Date 10-30-06

Operator I Derek Burke Date 10-30-06

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

FORWARD WHITE COPY TO WATER RESOURCES

Form 238-7
6:02

IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

8492016
Office Use Only
Well ID No. **44095**
Inspected by _____
Twp _____ Rge _____ Sec _____
1/4 _____ 1/4 _____ 1/4 _____
Lat: _____ Long: _____

1. WELL TAG NO. **D0052310**
DRILLING PERMIT NO. _____
Water Right or Injection Well No. _____

2. OWNER:
Name **FRANK BRADLEY**
Address **4546 DAPHNE**
City **MERIDIAN** State **ID** Zip **83646**

3. LOCATION OF WELL by legal description:
You must provide address or Lot, Blk, Sub. or Directions to well.
Twp. **1** North ☐ or South ☒
Rge. **5** East ☒ or West ☐
Sec. **30** NE 1/4 ☒ NE 1/4 ☐ SE 1/4 ☐
Gov't Lot _____ County **ELMORE**
Lat: **43° 18.460' N** Long: **115° 53.920' W**
Address of Well Site **1950 E. AERONCA**

City **MOUNTAIN HOME**
Lt. **18** Blk. **1** Sub. Name **RED BARRON EST.**

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

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

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

7. SEALING PROCEDURES

Seal Material	From	To	Weight / Volume	Seal Placement Method
5/8 BENTONITE	0	18	500 lbs	10" OVERBORE

Was drive shoe used? ☒ Y ☐ N Shoe Depth(s) **479'**

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

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
6	+2	479	250	STEEL	☒	☐	☒	☐
5	469	481	258	STEEL	☐	☒	☒	☐
5	501	502	258	STEEL	☐	☒	☒	☐

Length of Headpipe **11.11** Length of Tailpipe **1.0**

Packer ☒ Y ☐ N Type **RUBBER K-PACKER**

9. PERFORATIONS/SCREENS PACKER TYPE

Perforation Method _____

Screen Type & Method of Installation **JOHNSON/WASHDOWN**

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
481	501	025	304	5	S.S.	☐	☒

10. FILTER PACK

Filter Material	From	To	Weight / Volume	Placement Method
N/A				

11. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

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

12. WELL TESTS:

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

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

13. LITHOLOGIC LOG: (Describe repairs or abandonment)

Bore Dia.	From	To	Remarks: Lithology, Water Quality & Temperature	Water	Y	N
10	0	2	TOP SOIL			☒
	2	18	BROWN CLAY			☒
8	18	25	BROWN CLAY			☒
	25	30	COARSE SAND			☒
	30	55	BROWN CLAY			☒
	55	96	LAVA ROCK			☒
	96	112	RED LAVA ROCK			☒
	112	280	BROWN CLAY w/ GRAVEL			☒
	280	300	CEMENTED GRAVEL			☒
	6300	340	CEMENTED GRAVEL			☒
	340	390	CLAY w/ SAND STREAKS			☒
	390	415	COARSE SAND		☒	
	415	480	BROWN SANDY CLAY			☒
	480	485	BROWN SAND		☒	
	485	495	SANDY BROWN CLAY			☒
	495	498	COARSE SAND		☒	
	498	502	SANDY BROWN CLAY			☒

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OCT 09 2007

WATER RESOURCES
WESTERN REGION

Completed Depth **502'** (Measurable)

Date: Started **9/27/07** Completed **10/3/07**

14. DRILLER'S CERTIFICATION

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

Company Name **D P W D** Firm No. **332**

Principal Driller _____ Date **10/4/07**

and Driller or Operator II _____ Date **10/4/07**

Operator I _____ Date _____

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

FORWARD WHITE COPY TO WATER RESOURCES

IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

851627
Office Use Only
Well ID No. 421422
Inspected by
Twp Rge Sec
1/4 1/4 1/4
Lat: Long:

1. WELL TAG NO. D 0052913
DRILLING PERMIT NO.
Water Right or Injection Well No.

2. OWNER:
Name Tradition Custom Homes
Address 8754 Brookhaven Pl.
City Middleton State ID Zip 83694

3. LOCATION OF WELL by legal description:

You must provide address or Lot, Blk, Sub, or Directions to well.
Twp. 1 North or South R
Rge. 5 East or West R
Sec. 30 NE 1/4 NE 1/4 SE 1/4
Gov't Lot County Elmore
Lat: Long:
Address of Well Site Aerona St.
City Mt. Home

Lot 19 Blk. 1 Sub. Name Red Baron Est.

4. USE:

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

5. TYPE OF WORK check all that apply

☒ New Well ☐ Modify ☐ Abandonment ☐ Other (Replacement etc.)

6. DRILL METHOD:

☒ Air Rotary ☐ Cable ☐ Mud Rotary ☐ Other

7. SEALING PROCEDURES

Seal Material	From	To	Weight / Volume	Seal Placement Method
Grout Plug	0	108	3150 lbs	Overbore
Benotite				

Was drive shoe used? ☒ Y ☐ N Shoe Depth(s) 482 ft.
Was drive shoe seal tested? ☐ Y ☒ N How?

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
6	TR	482	250	Steel	☒		☒	

Length of Headpipe 5' Length of Tailpipe 0
Packer ☒ Y ☐ N Type 7-Rib

9. PERFORATIONS/SCREENS PACKER TYPE

Perforation Method
Screen Type & Method of Installation Johnson / Link DV Valve.

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
482	492	10	6	7/8	S.S.		

10. FILTER PACK

Filter Material	From	To	Weight / Volume	Placement Method

11. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

36' ft. below ground Artesian pressure lb.
Depth flow encountered ft. Describe access port or control devices:
Sani Seal Well Cap

12. WELL TESTS:

Yield gal./min.	Pump	Bailer	Flowing Artesian	Pumping Level	Time
15			☒	487'	4 hrs.

Water Temp.

Bottom hole temp.

Water Quality test or comments:

Depth first Water Encounter 462'

13. LITHOLOGIC LOG: (Describe repairs or abandonment)

Bore Dia.	From	To	Remarks: Lithology, Water Quality & Temperature	Water	Y	N
10	0	4	Top Soil			X
	4	4.5	Clay & Sand			X
	4.5	108	Sol. & Lava			X
	108	191	Brn clay			X
	191	241	Sand & clay mixed			X
	241	267	Hrd Brn clay			X
	267	284	Cemented gravel			X
	284	346	Brn clay			X
	346	391	Sand & clay			X
	391	425	Brn clay			X
	425	462	Sand & clay			X
	462	492	Large Sand 59pm		X	
	492	492	Brn clay			X
	492	492	Fine Sand		X	

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AUG 6 4 2008

WATER RESOURCES
WESTERN REGION

Completed Depth 492 ft. (Measurable)
Date Started 5/30/08 Completed 6/11/08

14. DRILLER'S CERTIFICATION

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

Company Name Precision Well Drilling Firm No. 572
Principal Driller Jeff Plummer Date 7/8/08
and
Driller or Operator II Date
Operator I Date

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

FORWARD WHITE COPY TO WATER RESOURCES

Use Typewriter or Ballpoint Pen

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

1. DRILLING PERMIT NO.

Other IDWR No. 61-98-W-0003-000

2. OWNER

Name Jim Hopson
Address 6303 Paint Brush Ln
City Nimrod State ED Zip 83651

3. LOCATION OF WELL by legal description:

Sketch map location must agree with written location.

N
 W E S
 Twp. 1 North ☐ or South ☒
 Rge. 5 East ☒ or West ☐
 Sec. 33 1/4 SW 1/4 SE 1/4
10 acres 10 acres 10 acres
 Gov't Lot _____ County Elmore
 Lat: _____ Long: _____
 Address of Well Site Southern Creek Rd
 City Mountain Home
 (Give at least name of road + distance to Road or Landmark)

Li. _____ Blk. _____ Sub. Name _____

4. USE:

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

5. TYPE OF WORK check all that apply

(Replacement etc.)

☒ New Well ☐ Modify ☐ Abandonment ☐ Other

6. DRILL METHOD

☒ Air Rotary ☐ Cable ☐ Mud Rotary ☐ Other

7. SEALING PROCEDURES

SEAL/FILTER PACK			AMOUNT	METHOD
Material	From	To	Sacks or Pounds	
Reactive	0	40+	100	Pour

Was drive shoe used? ☒ Y ☐ N Shoe Depth(s) 458

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

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
6	12	450	250	Steel	☒	☐	☒	☐
					☐	☐	☐	☐
					☐	☐	☐	☐

Length of Headpipe _____ Length of Tailpipe _____

9. PERFORATIONS/SCREENS

☐ Perforations Method _____

☐ Screens Screen Type _____

From	To	Slot Size	Number	Diameter	Material	Casing	Liner

10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

300 ft below ground Artesian pressure _____ lb.
Depth flow encountered 50-580 ft. Describe access port or
control devices: CAP

11. WELL TESTS:

☐ Pump ☐ Bailer ☒ Air ☐ Flowing Artesian

Yield gal./min.	Drawdown	Pumping Level	Time
12-15	560	560	3 1/4

Water Temp. 60 Bottom hole temp. 60

Water Quality test or comments: _____

Depth first Water Encountered 420

12. LITHOLOGIC LOG: (Describe repairs or abandonment)

Water

Bore No.	From	To	Remarks: Lithology, Water Quality & Temperature	V	M
10	0	5	TOPSOIL		
	5	12	Brn CLAY Sandy		
	12	41	CLAY & Gravel mix		
B	41	220	LAUA		
6	220	250	SAND		
	250	430	CLAY & Sand layers		
	430	450	CLAY & Sand layers		
	450	470	CLAY		
	470	500	Blue CLAY		
	500	550	Blue CLAY & Sand layers		
			Some Sand Stone		

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MAR 04 1963

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MAR 02 1968
MICROFILMED
WATER RESOURCES
WESTERN REGION

Completed Depth 580 (Measurable)
Date: Started 2-3-98 Completed 2-6-98

13. DRILLER'S CERTIFICATION

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

Firm Name George C. Hardy, Inc. Firm No. 560

Firm Official [Signature] Date 2-24-98

Supervisor or Operator _____ Date _____

(Sign once if Firm Official & Operator)

FORWARD WHITE COPY TO WATER RESOURCES

IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

768291
Office Use Only
Inspected by _____
Twp _____ Rge _____ Sec _____
1/4 1/4 1/4
Lat _____ Long _____

1. WELL TAG NO. D 0018204

DRILLING PERMIT NO. _____

Other IDWR No. _____

2. OWNER:

Name Jane Young

Address 555 S. Haskett

City Mountain Home State ID Zip 83647

3. LOCATION OF WELL by legal description:

Sketch map location must agree with written location.

Map grid showing well location. Twp. 1 North ☐ or South ☒
Rge. 5 East ☒ or West ☐
Sec. 34 1/4 SW 1/4 SW 1/4
Gov't Lot _____ County Elmore 18 acres 40 acres 180 acres
Lat _____ Long _____

Address of Well Site 80 Faulkner Ave.

City Mountain Home

(Give at least name of road + distance to road or landmark)
Lt. _____ Bk. _____ Sub. Name _____

4. USE:

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

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

☒ New Well ☐ Modify ☐ Abandonment ☐ Other _____

6. DRILL METHOD:

☒ Air Rotary ☐ Cable ☐ Mud Rotary ☐ Other _____

7. SEALING PROCEDURES:

Seal/Filler Pack			AMOUNT	METHOD
Material	From	To	Sections or Pounds	
Bentonite	0	18	400 lbs	Pour

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

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

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
6	+2	18	250	Steel	☒	☐	☐	☐
					☐	☐	☐	☐
					☐	☐	☐	☐

Length of Headpipe _____

Length of Tailpipe _____

9. PERFORATIONS/SCREENS:

☐ Perforations Method _____
☐ Screens Screen Type _____

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

10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

380 ft. below ground Artesian pressure _____ lb.

Depth flow encountered 400-505 ft. Describe access port or control device: Cap

11. WELL TESTS:

☐ Pump ☐ Bailor ☒ Air ☐ Flowing Artesian

Yield gal./min.	Drawdown	Pumping Level	Time

Water Temp. 56

Bottom hole temp. 56

Water Quality test or comments: Lost circulation on return to

see

Depth first Water Encounter 400

12. LITHOLOGIC LOG: (Describe repairs or abandonment)

Bore Dia	From	To	Remarks: Lithology, Water Quality & Temperature	Y	N
6	0	2	Top Soil		
6	2	4	Hard pan		
6	4	18	Lava		
6	18	300	Lava		
6	300	401	Brown Clay		
6	401	505	Lava, broken lava and clay	X	

RECEIVED

APR 09 2001

WATER RESOURCES
WESTERN REGION

RECEIVED

APR 24 2001

Department of Water Resources

Completed Depth 505

(Measurable)

Date: Started 3/20/2001

Completed 3/21/2001

13. DRILLER'S CERTIFICATION:

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

Company Name Treasure Valley Drilling

Firm No. 560

Firm Official _____

Date 4/4/2001

and _____

Driller or Operator _____

Date 4/4/2001

(Sign once if Firm Official & Operator)

FORWARD WHITE COPY TO WATER RESOURCES

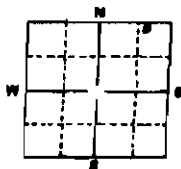
FORWARD WHITE COPY TO WATER RESOURCES

USE TYPEWRITER OR
BALL POINT PEN

State of Idaho
Department of Reclamation

WELL DRILLER'S REPORT

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

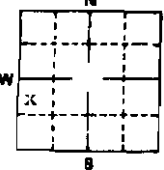
1. WELL OWNER Name <u>J. R. Simplot</u> Soilbuilder Division Address <u>Cocatello, Idaho</u> Owner's Permit No. _____		7. WATER LEVEL Static water level <u>495</u> feet below land surface Flowing? ☐ Yes ☒ No G.P.M. flow _____ Temperature _____ ° F. Quality _____ Artesian closed-in pressure _____ p.s.i. Controlled by ☐ Valve ☐ Cap ☐ Plug																																																																																																																																																																																																											
2. NATURE OF WORK ☒ New well ☐ Deepened ☐ Replacement ☐ Abandoned (describe method of abandoning) _____		8. WELL TEST DATA ☐ Pump ☒ Sailer ☐ Other Discharge G.P.M. _____ Draw Down _____ Hours Pumped _____																																																																																																																																																																																																											
3. PROPOSED USE ☒ Domestic ☐ Irrigation ☐ Test ☐ Municipal ☐ Industrial ☐ Stock		9. LITHOLOGIC LOG <u>104258</u>																																																																																																																																																																																																											
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5. WELL CONSTRUCTION Diameter of hole <u>10</u> inches Total depth <u>535</u> feet Casing schedule: ☒ Steel ☐ Concrete Thickness Diameter From To <u>3</u> inches <u>10</u> inches <u>0</u> feet <u>170</u> feet <u>4</u> inches <u>8</u> inches <u>0</u> feet <u>370</u> feet _____ inches _____ inches _____ feet _____ feet _____ inches _____ inches _____ feet _____ feet _____ inches _____ inches _____ feet _____ feet Was a packer or seal used? ☐ Yes ☒ No Perforated? ☐ Yes ☒ No How perforated? ☐ Factory ☐ Knife ☐ Torch Size of perforation _____ inches by _____ inches Number From To _____ perforations _____ feet _____ feet _____ perforations _____ feet _____ feet _____ perforations _____ feet _____ feet Well screen installed? ☐ Yes ☒ No Manufacturer's name _____ Type _____ Model No. _____ Diameter _____ Slot size _____ Set from _____ feet to _____ feet Diameter _____ Slot size _____ Set from _____ feet to _____ feet Gravel packed? ☐ Yes ☒ No Size of gravel _____ Placed from _____ feet to _____ feet Surface seal? ☒ Yes ☐ No To what depth <u>20</u> feet Material used in seal ☒ Cement grout ☒ Puddling clay		10. Work started <u>1/29/70</u> finished <u>2/20/70</u>																																																																																																																																																																																																											
6. LOCATION OF WELL Sketch map location must agree with written location.  County <u>Blaine</u> <u>N. M. X. N. M. Sec. 2, T. 2, N. S. R. 1, E. W.</u> <u>Block H Sunnyside Townsite</u>		11. DRILLER'S CERTIFICATION This well was drilled under my supervision and this report is true to the best of my knowledge. <u>C. L. Hiddleston & Son</u> <u>35</u> Driller's or Firm's Name Number <u>Dick Johnson -- Driller</u> Address <u>C. L. Hiddleston</u> <u>2/25/70</u> Signed By Date																																																																																																																																																																																																											

USE ADDITIONAL SHEETS IF NECESSARY

FORWARD THE WHITE, BLUE, AND PINK COPIES TO THE DEPARTMENT

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

R-2

1. WELL OWNER Name <u>Arthur Donald Watkins</u> Address <u>8828 Clovis Dr., Boise, ID 83709</u> Drilling Permit No. <u>61-91-Z-052</u> Water Right Permit No. _____		7. WATER LEVEL Static water level <u>445</u> feet below land surface. Flowing? ☐ Yes ☒ No G.P.M. flow _____ Artesian closed-in pressure _____ p.s.i. Controlled by: ☐ Valve ☐ Cap ☐ Plug Temperature _____ OF. Quality _____ <i>Describe artesian or temperature zones below.</i>																																																																																																																																																															
2. NATURE OF WORK ☒ New well ☐ Deepened ☐ Replacement ☐ Well diameter increase ☐ Abandoned (describe abandonment procedures such as materials, plug depths, etc. in lithologic log)		8. WELL TEST DATA ☐ Pump ☐ Bailor ☒ Air ☐ Other _____																																																																																																																																																															
3. PROPOSED USE ☒ Domestic ☐ Irrigation ☐ Test ☐ Municipal ☐ Industrial ☐ Stock ☐ Waste Disposal or Injection ☐ Other _____ (specify type)		9. LITHOLOGIC LOG <u>023286</u>																																																																																																																																																															
4. METHOD DRILLED ☒ Rotary ☒ Air ☐ Hydraulic ☐ Reverse rotary ☐ Cable ☐ Dug ☐ Other _____		<table border="1"><thead><tr><th>Bore</th><th>Depth</th><th>Material</th><th>Water</th></tr><tr><th>Diam.</th><th>From</th><th>To</th><th>Yes No</th></tr></thead><tbody><tr><td>10</td><td>0</td><td>78</td><td>Decomposed granite Brn Clay</td><td></td></tr><tr><td>10</td><td>78</td><td>80</td><td>Gray lava</td><td></td></tr><tr><td>8</td><td>80</td><td>119</td><td>Gray lava</td><td></td></tr><tr><td>"</td><td>119</td><td>150</td><td>Decomposed granite Brn Clay</td><td></td></tr><tr><td>"</td><td>150</td><td>220</td><td>Gray lava</td><td></td></tr><tr><td>"</td><td>220</td><td>226</td><td>Red cinders</td><td></td></tr><tr><td>"</td><td>226</td><td>260</td><td>Gray lava</td><td></td></tr><tr><td>"</td><td>260</td><td>320</td><td>Hard broken up</td><td></td></tr><tr><td>"</td><td>320</td><td>340</td><td>Medium</td><td></td></tr><tr><td>"</td><td>340</td><td>410</td><td>Hard</td><td></td></tr><tr><td>"</td><td>410</td><td>413</td><td>Soft</td><td></td></tr><tr><td>"</td><td>413</td><td>436</td><td>Medium</td><td></td></tr><tr><td>"</td><td>436</td><td>445</td><td>Soft</td><td></td></tr><tr><td>"</td><td>445</td><td>460</td><td>Medium</td><td></td></tr><tr><td>"</td><td>460</td><td>468</td><td>Medium broken up</td><td></td></tr><tr><td>"</td><td>468</td><td>508</td><td>Hard</td><td></td></tr><tr><td>"</td><td>508</td><td>510</td><td>Hard Broken up</td><td></td></tr><tr><td>"</td><td>510</td><td>534</td><td>Hard</td><td></td></tr><tr><td>"</td><td>534</td><td>536</td><td>Medium</td><td></td></tr><tr><td>"</td><td>536</td><td>543</td><td>Medium broken up</td><td></td></tr><tr><td>"</td><td>543</td><td>545</td><td>Hard</td><td></td></tr><tr><td>"</td><td>545</td><td>553</td><td>Hard</td><td></td></tr><tr><td>"</td><td>553</td><td>557</td><td>Medium</td><td></td></tr><tr><td>"</td><td>557</td><td>565</td><td>Medium broken up</td><td></td></tr><tr><td>"</td><td>565</td><td>579</td><td>Hard</td><td></td></tr><tr><td>"</td><td>579</td><td>581</td><td>Soft</td><td></td></tr><tr><td>"</td><td>581</td><td>584</td><td>Hard</td><td></td></tr><tr><td>"</td><td>584</td><td>596</td><td>Medium</td><td></td></tr><tr><td>"</td><td>596</td><td>618</td><td>Soft</td><td>X</td></tr><tr><td>8</td><td>618</td><td>620</td><td>Soft caving sand coarse</td><td>X</td></tr></tbody></table>		Bore	Depth	Material	Water	Diam.	From	To	Yes No	10	0	78	Decomposed granite Brn Clay		10	78	80	Gray lava		8	80	119	Gray lava		"	119	150	Decomposed granite Brn Clay		"	150	220	Gray lava		"	220	226	Red cinders		"	226	260	Gray lava		"	260	320	Hard broken up		"	320	340	Medium		"	340	410	Hard		"	410	413	Soft		"	413	436	Medium		"	436	445	Soft		"	445	460	Medium		"	460	468	Medium broken up		"	468	508	Hard		"	508	510	Hard Broken up		"	510	534	Hard		"	534	536	Medium		"	536	543	Medium broken up		"	543	545	Hard		"	545	553	Hard		"	553	557	Medium		"	557	565	Medium broken up		"	565	579	Hard		"	579	581	Soft		"	581	584	Hard		"	584	596	Medium		"	596	618	Soft	X	8	618	620	Soft caving sand coarse	X
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11. DRILLERS CERTIFICATION I/We certify that all minimum well construction standards were complied with at the time the rig was removed. Firm Name <u>Hiddleston & Son, Inc</u> Firm No. <u>35</u> Rt. 3, Box 610-D Address <u>Mtn Home, ID 83647</u> Date <u>1/24/92</u> Signed by (Firm Official) <u>[Signature]</u> and (Operator) <u>John H. Smith</u>																																																																																																																																																																	

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

USE TYPEWRITER OR
BALL POINT PEN

State of Idaho
Department of Water Resources

RECEIVED

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.

JUN 23 1978

WED

1. WELLOWNER Name <u>DALE PAYNE</u> Address <u>RT 1, WARDEN, WASH.</u> Owner's Permit No. <u>61-7253</u>		7. WATER LEVEL Static water level <u>423</u> feet below land surface Flowing? ☐ Yes ☒ No G.P.M. flow _____ Temperature <u>70</u> ° F. Quality <u>Good</u> Artesian closed-in pressure _____ p.s.i. Controlled by ☐ Valve ☐ Cap ☐ Plug																																																																																															
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11. DRILLERS CERTIFICATION Firm Name <u>CARLEY DRILLING & PUMP CO.</u> Firm No. <u>291</u> Star Rt. B, Box 19-I Address <u>Mountain Home, ID 83647</u> Date <u>June 20, 1978</u> Signed by (Firm Official) _____ and _____ (Operator) <u>Bill Carley</u>																																																																																																	

USE ADDITIONAL SHEETS IF NECESSARY

FORWARD THE WHITE COPY TO THE DEPARTMENT

USE TYPEWRITER OR
BALL POINT PEN

State of Idaho
Department of Water Resources

WELL DRILLER'S REPORT

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

RECEIVED

OCT 28 1978

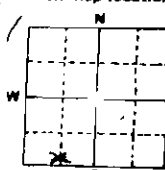
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WELL DRILLER'S REPORT

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1. WELL OWNER Name <u>KLEIN</u> Address <u>KUNA, IDAHO</u> Owner's Permit No. _____		7. WATER LEVEL Static water level <u>445</u> feet below land surface Flowing? ☐ Yes ☒ No G.P.M. flow _____ Temperature _____ ° F. Quality _____ Artesian closed-in pressure _____ p.s.i. Controlled by ☐ Valve ☐ Cap ☐ Plug																																																																																																																	
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3. PROPOSED USE ☐ Domestic ☒ Irrigation ☐ Test ☐ Other (specify type) _____ ☐ Municipal ☐ Industrial ☐ Stock ☐ Waste Disposal or Injection		9. LITHOLOGIC LOG <table border="1"><thead><tr><th rowspan="2">Hole Diam.</th><th colspan="2">Depth</th><th rowspan="2">Material</th><th rowspan="2">Water Yes/No</th></tr><tr><th>From</th><th>To</th></tr></thead><tbody><tr><td>30"</td><td>0</td><td>180</td><td>CLAY + SAND</td><td>✓</td></tr><tr><td></td><td>180</td><td>198</td><td>GRAY LAVA</td><td>✓</td></tr><tr><td></td><td>198</td><td>200</td><td>BROWN LAVA</td><td>✓</td></tr><tr><td></td><td>200</td><td>212</td><td>RED LAVA</td><td>✓</td></tr><tr><td></td><td>212</td><td>269</td><td>GRAY LAVA</td><td>✓</td></tr><tr><td></td><td>269</td><td>283</td><td>RED CLAY</td><td>✓</td></tr><tr><td></td><td>283</td><td>288</td><td>BROWN CLAY + CINDERS</td><td>✓</td></tr><tr><td></td><td>288</td><td>304</td><td>GRAY LAVA + MUD</td><td>✓</td></tr><tr><td></td><td>304</td><td>318</td><td>BROWN LAVA + MUD</td><td>✓</td></tr><tr><td></td><td>318</td><td>358</td><td>GRAY LAVA</td><td>✓</td></tr><tr><td></td><td>358</td><td>363</td><td>BROWN CINDERS</td><td>✓</td></tr><tr><td></td><td>363</td><td>370</td><td>BROWN LAVA</td><td>✓</td></tr><tr><td></td><td>370</td><td>387</td><td>GRAY LAVA</td><td>✓</td></tr><tr><td></td><td>387</td><td>390</td><td>RED CLAY</td><td>✓</td></tr><tr><td></td><td>390</td><td>450</td><td>BROWN LAVA</td><td>✓</td></tr><tr><td></td><td>450</td><td>478</td><td>GRAY LAVA</td><td>✓</td></tr><tr><td></td><td>478</td><td>504</td><td>BROWN LAVA</td><td>✓</td></tr><tr><td></td><td>504</td><td>571</td><td>GRAY LAVA WITH TALE</td><td>✓</td></tr><tr><td></td><td>571</td><td>608</td><td>BROWN LAVA</td><td>✓</td></tr><tr><td></td><td>608</td><td>628</td><td>GRAY LAVA</td><td>✓</td></tr><tr><td></td><td>628</td><td>660</td><td>SAND + CLAY</td><td>✓</td></tr></tbody></table>		Hole Diam.	Depth		Material	Water Yes/No	From	To	30"	0	180	CLAY + SAND	✓		180	198	GRAY LAVA	✓		198	200	BROWN LAVA	✓		200	212	RED LAVA	✓		212	269	GRAY LAVA	✓		269	283	RED CLAY	✓		283	288	BROWN CLAY + CINDERS	✓		288	304	GRAY LAVA + MUD	✓		304	318	BROWN LAVA + MUD	✓		318	358	GRAY LAVA	✓		358	363	BROWN CINDERS	✓		363	370	BROWN LAVA	✓		370	387	GRAY LAVA	✓		387	390	RED CLAY	✓		390	450	BROWN LAVA	✓		450	478	GRAY LAVA	✓		478	504	BROWN LAVA	✓		504	571	GRAY LAVA WITH TALE	✓		571	608	BROWN LAVA	✓		608	628	GRAY LAVA	✓		628	660	SAND + CLAY	✓
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5. WELL CONSTRUCTION Diameter of hole <u>20</u> inches Total depth <u>660</u> feet Casing schedule: ☒ Steel ☐ Concrete Thickness <u>1/4"</u> inches Diameter <u>20"</u> inches From <u>1.5</u> feet To <u>181.5</u> feet _____ inches _____ inches _____ feet _____ feet _____ inches _____ inches _____ feet _____ feet _____ inches _____ inches _____ feet _____ feet _____ inches _____ inches _____ feet _____ feet Was casing drive shoe used? ☐ Yes ☒ No Was a packer or seal used? ☐ Yes ☒ No Perforated? ☐ Yes ☒ No How perforated? ☐ Factory ☐ Knife ☐ Torch Size of perforation _____ inches by _____ inches Number _____ From _____ To _____ _____ perforations _____ feet _____ feet _____ perforations _____ feet _____ feet _____ perforations _____ feet _____ feet Well screen installed? ☐ Yes ☒ No Manufacturer's name _____ Type _____ Model No. _____ Diameter _____ Slot size _____ Set from _____ feet to _____ feet Diameter _____ Slot size _____ Set from _____ feet to _____ feet Gravel packed? ☐ Yes ☒ No Size of gravel _____ Placed from _____ feet to _____ feet Surface seal depth <u>10'</u> Material used in seal ☐ Cement grout ☒ Pudding clay ☐ Well cuttings Sealing procedure used ☐ Sherry pit ☐ Temporary surface casing ☒ Overbore to seal depth																																																																																																																			
6. LOCATION OF WELL Sketch map location must agree with written location.  Subdivision Name _____ Lot No. _____ Block No. _____ County <u>ELMORE</u> T. <u>2</u> N. S. R. <u>4</u> E. W. <u>21</u>		10. Work started <u>23 APR 75</u> finished <u>6 JAN 76</u>																																																																																																																	
11. DRILLER'S CERTIFICATION Firm Name <u>Hiddeston</u> USGS Firm No. <u>35</u> Address <u>MT HOME IDAHO</u> Date <u>15 JAN 76</u> Signed by (Firm Official) <u>Ron H. Hiddeston</u> and <u>Richard W. Johnson</u> Operator																																																																																																																			

USE ADDITIONAL SHEETS IF NECESSARY

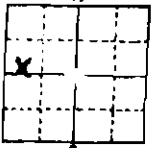
FORWARD THE WHITE COPY TO THE DEPARTMENT

USE TYPEWRITER OR
BALL POINT PEN

State of Idaho
Department of Water Resources

WELL DRILLER'S REPORT

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

1. WELL OWNER Name <u>Roger Smith</u> Address <u>2570 ORMOND PLACE BOISE</u> Owner's Permit No. <u>61-7438</u>		7. WATER LEVEL Static water level <u>450</u> feet below land surface Flowing? ☐ Yes ☒ No G.P.M. flow _____ Temperature _____ ° F. Quality _____ Artesian closed-in pressure _____ p.s.i. Controlled by ☐ Valve ☐ Cap ☐ Plug																																																																																																																																									
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5. WELL CONSTRUCTION <u>20"-10"</u> Diameter of hole _____ inches Total depth <u>1093</u> feet Casing schedule: ☐ Steel ☐ Concrete Thickness _____ inches Diameter _____ inches From _____ feet To _____ feet <u>250</u> inches <u>20</u> inches <u>1</u> feet <u>204</u> feet <u>260</u> inches <u>16</u> inches <u>465</u> feet <u>704</u> feet <u>250</u> inches <u>12</u> inches <u>249</u> feet <u>848</u> feet <u>219</u> inches <u>10</u> inches <u>877</u> feet <u>1077</u> feet Was casing drive shoe used? ☒ Yes ☐ No <u>DO NOT USE</u> Was a packer or seal used? ☐ Yes ☒ No Perforated? ☒ Yes ☐ No How perforated? ☒ Factory ☐ Knife ☐ Torch Size of perforation <u>3/16</u> inches by <u>4</u> inches <u>7648</u> perforations <u>465</u> feet <u>704</u> feet <u>1400</u> perforations <u>897</u> feet <u>1067</u> feet Well screen installed? ☐ Yes ☒ No Manufacturer's name _____ Type _____ Model No. _____ Diameter _____ Slot size _____ Set from _____ feet to _____ feet Diameter _____ Slot size _____ Set from _____ feet to _____ feet Gravel packed? ☐ Yes ☒ No Size of gravel _____ Placed from _____ feet to _____ feet Surface seal depth <u>unknown</u> Material used in seal ☐ Cement grout ☐ Pudding clay ☐ Well cuttings Sealing procedure used ☐ Slurry pit ☐ Temporary surface casing ☐ Overbore to seal depth		11. DRILLERS CERTIFICATION <u>DR</u> Firm Name <u>JOHNSTON DRILLING CO</u> Firm No. <u>92</u> Address <u>211 GAZ 830 Midway Id.</u> Date <u>8 FEB 82</u> Signed by (Firm Official) <u>Chris Johnston</u> and (Operator) <u>Bone Johnston</u>																																																																																																																																									
6. LOCATION OF WELL Sketch map location must agree with written location.  Subdivision Name <u>MICROFILMED</u> Lot No. _____ Block No. _____ County <u>Elmore</u> S.W. 1/4 NW 1/4 Sec. <u>11</u> T. <u>25</u> N/S, R. <u>4E</u> E/W		12. USE ADDITIONAL SHEETS IF NECESSARY FORWARD THE WHITE COPY TO THE DEPARTMENT																																																																																																																																									

IDAHO DEPARTMENT OF WATER RESOURCES

WELL DRILLER'S REPORT

Use Typewriter or Ballpoint Pen

62519

Office Use Only

Inspected by _____

Twp. _____ Rge. _____ Sec. _____

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

Lat. : : Long. : : :

1. DRILLING PERMIT NO. 61 - 95 - W - 0050 - 001

Other IDWR No. _____

2. OWNER:

Name IDAHO WASTE SYSTEMS MW-2

Address HC 79 BOX 2230

City OREANA State ID Zip 83650

3. LOCATION OF WELL by legal description:

Sketch map location must agree with written location.

N		Twp. 2		North ☐	or	South ☒
W		Rge. 4		East ☒	or	West ☐
E		Sec. 12		SW 1/4	NE 1/4	1/4
S		Gov't Lot _____		County ELMORE	10 acres 160 acres	
		Lat. : : Long. : : :				
		Address of Well Site SIMCO ROAD				
		City MTN HOME				
(Give at least name of road + Distance to Road or Landmark)						
Lt. _____		Blk. _____		Sub Name _____		

4. USE:

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

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

☒ New Well ☐ Modify ☐ Abandonment ☐ Other _____

6. DRILL METHOD

☒ Air Rotary ☐ Cable ☐ Mud Rotary ☐ Other _____

7. SEALING PROCEDURES

SEAL/FILTER PACK			AMOUNT		METHOD
Material	From	To	Sacks or Pounds		
BENTONITE	0	112	8 sack	OVERBORE	

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

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
8 5/8	+2	113	250	STEEL	☒	☐	☒	☐
4 1/2	+2	466	sh40	PVC	☐	☒	☐	☒
					☐	☐	☐	☐

Length of Headpipe 466 Length of Tailpipe 5' PVC

9. PERFORATIONS/SCREENS

☐ Perforations Method _____☒ Screens Screen Type JOHNSON

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
466	486	VV-WIRE	4.5	SS		☐	☒
						☐	☐
						☐	☐

10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

466 ft. below ground Artesian pressure _____ lb.

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

11. WELL TESTS:

☐ Pump ☐ Bailor ☒ Air ☐ Flowing Artesian

Yield gal./min.	Drawdown	Pumping Level	Time
20			

Water Temp. _____

Water Quality test or comments: _____

Depth first Water Encountered _____

12. LITHOLOGIC LOG: (Describe repairs or abandonment)

Bore Dia.	From	To	Remarks: Lithology, Water Quality & Temperature	Y	N
10	0	6	soil & clay		
10	6	12	sand & gravel		
10	12	16	clay		
10	16	43	sand & gravel		
10	43	59	clay		
10	59	70	sandy clay		
10	70	107	clay & gravel		
10	107	113	clay		
8	113	170	gray basalt		
8	170	176	brown basalt some clay		
8	176	179	gray basalt		
8	179	182	brown basalt & cinder		
8	182	215	gray basalt & some clay		
8	215	234	red & black cinder & sand		
8	234	248	tan clay		
8	248	285	gray basalt & some clay		
8	285	288	brown basalt & cinder		
8	288	292	gray basalt		
8	292	317	brown basalt		
8	317	320	brown siltstone		
8	320	365	gray basalt some clay		
8	365	369	brown basalt some clay		
8	369	373	gray basalt		
8	373	375	brown basalt		
8	375	401	gray basalt		
8	401	405	brown basalt		
8	405	418	gray basalt		
8	418	426	brown basalt & cinder		
8	426	433	gray basalt		
8	433	438	brown & red cinder & clay		
8	438	447	gray basalt		
8	447	451	brown cinder		
			PAGE 1 OF 2		

Completed Depth 493' (Measurable)

Date: Started 9-08-95

13. DRILLER'S CERTIFICATION

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

Firm Name HIDDLESTON & SON, INC. Firm No. 35

Firm Official Ken Koch Date 9-14-95

and _____

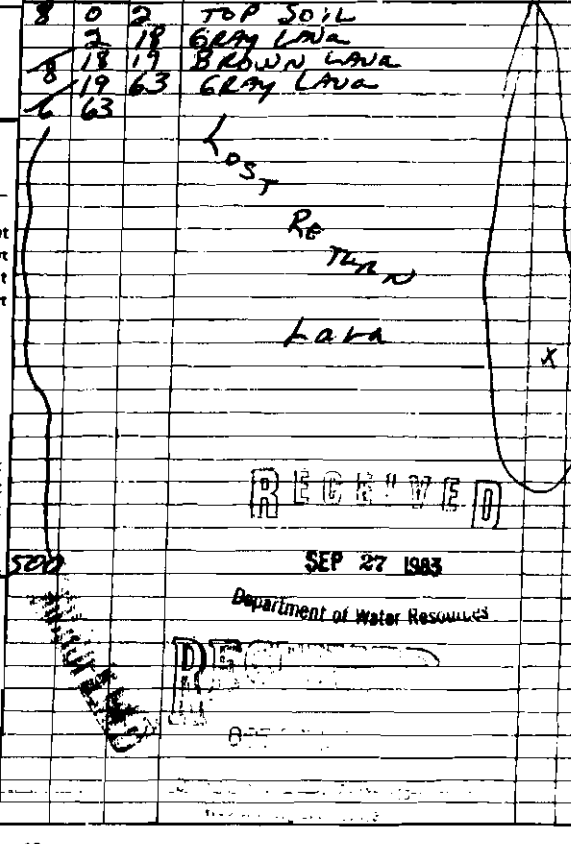
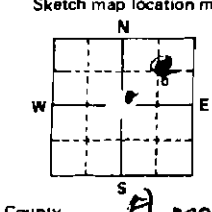
Supervisor or Operator _____ Date _____

(Sign once if Firm Official & Operator)

FORWARD WHITE COPY TO WATER RESOURCES

FORWARD WHITE COPY TO WATER RESOURCES

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

1. WELL OWNER Name <u>DAVE Koch</u> Address <u>TIPANUK</u> Owner's Permit No. _____		7. WATER LEVEL Static water level <u>360</u> feet below land surface. Flowing? ☐ Yes ☒ No G.P.M. flow _____ Artesian closed-in pressure _____ p.s.i. Controlled by: ☐ Valve ☐ Cap ☐ Plug Temperature _____ °F. Quality _____																																									
2. NATURE OF WORK ☒ New well ☐ Deepened ☐ Replacement ☐ Abandoned (describe method of abandoning) _____		8. WELL TEST DATA ☐ Pump ☐ Baller ☒ Air ☐ Other _____ <table border="1"><thead><tr><th>Discharge G.P.M.</th><th>Pumping Level</th><th>Hours Pumped</th></tr></thead><tbody><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr></tbody></table>		Discharge G.P.M.	Pumping Level	Hours Pumped																																					
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3. PROPOSED USE ☒ Domestic ☐ Irrigation ☐ Test ☐ Municipal ☐ Industrial ☐ Stock ☐ Waste Disposal or Injection ☐ Other _____ (specify type)		9. LITHOLOGIC LOG <u>081226</u> <table border="1"><thead><tr><th rowspan="2">Hole Diam.</th><th colspan="2">Depth</th><th rowspan="2">Material</th><th colspan="2">Water</th></tr><tr><th>From</th><th>To</th><th>Yes</th><th>No</th></tr></thead><tbody><tr><td>8</td><td>0</td><td>2</td><td>TOP SOIL</td><td> </td><td> </td></tr><tr><td>8</td><td>2</td><td>18</td><td>GRAY LAVA</td><td> </td><td> </td></tr><tr><td>8</td><td>18</td><td>19</td><td>BROWN LAVA</td><td> </td><td> </td></tr><tr><td>8</td><td>19</td><td>63</td><td>GRAY LAVA</td><td> </td><td> </td></tr><tr><td>6</td><td>63</td><td> </td><td> </td><td> </td><td> </td></tr></tbody></table> Lost Return LAVA RECEIVED SEP 27 1983 Department of Water Resources		Hole Diam.	Depth		Material	Water		From	To	Yes	No	8	0	2	TOP SOIL			8	2	18	GRAY LAVA			8	18	19	BROWN LAVA			8	19	63	GRAY LAVA			6	63				
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5. WELL CONSTRUCTION Casing schedule: ☒ Steel ☐ Concrete ☐ Other _____ Thickness <u>250</u> inches Diameter <u>6 1/2</u> inches From <u>0</u> feet To <u>20</u> feet Inches inches feet feet Inches inches feet feet Inches inches feet feet Was casing drive shoe used? ☐ Yes ☒ No Was a packer or seal used? ☐ Yes ☒ No Perforated? ☐ Yes ☒ No How perforated? ☐ Factory ☐ Knife ☐ Torch Size of perforation _____ inches by _____ inches Number _____ From _____ To _____ perforations feet feet perforations feet feet perforations feet feet Well screen installed? ☐ Yes ☒ No Manufacturer's name _____ Type _____ Model No. _____ Diameter _____ Slot size _____ Set from _____ feet to _____ feet Diameter _____ Slot size _____ Set from _____ feet to _____ feet Gravel packed? ☐ Yes ☒ No Size of gravel _____ Placed from _____ feet to _____ feet Surface seal depth <u>20</u> Material used in seal: ☐ Cement grout ☒ Well cuttings <u>BENTONITE</u> ☐ Pudding clay Sealing procedure used: ☐ Slurry pit ☐ Temp. surface casing ☒ Overbore to seal depth Method of joining casing: ☐ Threaded ☐ Welded ☐ Solvent Weld ☐ Cemented between strata Describe access port _____																																											
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11. DRILLERS CERTIFICATION I/We certify that all minimum well construction standards were complied with at the time the rig was removed. Firm Name <u>HILLMAN DRILLERS</u> Firm No. <u>35</u> Address <u>201 N. Main St. IDA</u> Date <u>23 Sep 83</u> Signed by (Firm Official) <u>Koch</u> and (Operator) <u>Dave</u>																																											

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

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCESUSE TYPEWRITER OR
BALLPOINT PEN

WELL DRILLER'S REPORT

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

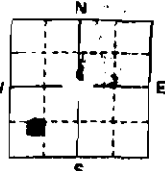
RECEIVED

MAY 30 1981

1. WELL OWNER Name <u>Gerald J. Cunningham</u> Address <u>P.O. Box 230, Mountain Home, ID</u> Owner's Permit No. <u>61-7253</u>		7. WATER LEVEL Static water level <u>408'</u> Department of Water Resources Flowing? ☐ Yes ☒ No G.P.M. flow _____ Artesian closed-in pressure _____ p.s.i. Controlled by: ☐ Valve ☐ Cap ☐ Plug Temperature <u>41</u> °F. Quality <u>Good</u>																																																																																																																																																																							
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WELL DRILLER'S REPORT --PAGE 1 OF 2 PAGES

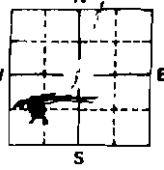
State law requires that this report be filed with the Director, Department of Water Resources
within 30 days after the completion of abandonment of the well.

1. WELL OWNER Name <u>GERALD J. CUNNINGHAM</u> Address <u>RT. 2, BOX 230</u> <u>GRANDVIEW, IDAHO 83623</u> Owner's Permit No. <u>61-7253</u>		7. WATER LEVEL Static water level <u>109.3</u> feet below land surface. Flowing? ☐ Yes ☒ No G.P.M. flow _____ Artesian closed-in pressure _____ p.s.i. Controlled by: ☐ Valve ☐ Cap ☐ Plug Temperature _____ °F																																																																																																																																																																						
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	8'5"	8'5"	BOULDERS, GRAVEL, CLAY	X																																																																																																																																																																				
	8'5"	8'62"	BASALT, HARD, GREY	X																																																																																																																																																																				
	8'62"	9'02"	BASALT BOULDERS, BROKEN BASALT CREVICES, CINDERS	X																																																																																																																																																																				
	9'02"	9'14"	BASALT BOULDERS, GREY CLAY																																																																																																																																																																					
	9'14"	9'25"	IN SEAMS GREY CLAY	X																																																																																																																																																																				
	9'25"	9'40"	BROWN SILT	X																																																																																																																																																																				
	9'40"	9'44"	YELLOW SAND	X																																																																																																																																																																				
	9'44"	9'50"	BROWN SILT TO BROWN SANDY SILT	X																																																																																																																																																																				
	9'50"	9'53"	YELLOW SAND	X																																																																																																																																																																				
	9'53"	9'53"	BROWN SILT	X																																																																																																																																																																				
	9'53"	9'57"	BROWN SAND	X																																																																																																																																																																				
	9'57"	9'63"	SANDY SILT	X																																																																																																																																																																				
	9'63"	9'72"	GREY BOULDER CLAY	X																																																																																																																																																																				
	9'72"	9'73"	BLACK BASALT RUBBLE, BROWN CLAY BINDER	X																																																																																																																																																																				
	9'73"	9'74"	BROWN CLAY	X																																																																																																																																																																				
	9'74"	9'85"	BOULDER CLAY	X																																																																																																																																																																				
	9'85"	9'86"	GREY CINDERS	X																																																																																																																																																																				
	9'86"	10'11"	CINDERS, WITH BROWN CLAY LAYERS	X																																																																																																																																																																				
	10'11"	10'13"	TAN SANDY CLAY	X																																																																																																																																																																				
	10'13"	10'16"	GREY CLAY W/BASALT GRAVELS	X																																																																																																																																																																				
	10'16"	10'62"	SIX INCH BLACK CINDER LAYERS & ONE INCH BROWN CLAY LAYERS	X																																																																																																																																																																				
	10'62"	10'66"	TAN SANDY SILTS & SILTY SANDS	X																																																																																																																																																																				
	10'66"	10'76"	TAN SANDSTONE, CLAY BINDER	X																																																																																																																																																																				
	10'76"	10'78"	TAN CLAY	X																																																																																																																																																																				
	10'78"	10'89"	TAN SANDY CLAY	X																																																																																																																																																																				
	10'89"	11'08"	YELLOW SAND W/SOME GRAVEL	X																																																																																																																																																																				
	11'08"	11'14"	TAN CLAY	X																																																																																																																																																																				
	11'14"	11'19"	YELLOW SAND, SILTY	X																																																																																																																																																																				
	11'19"	11'20"	TAN CLAY	X																																																																																																																																																																				
	11'20"	11'34"	YELLOW SAND	X																																																																																																																																																																				
4. METHOD DRILLED ☐ Rotary ☐ Air ☐ Hydraulic ☐ Reverse rotary ☒ Cable ☐ Dug ☐ Other _____		10. CONT'D PAGE 2- Work started <u>JULY 14, 1981</u> finished <u>FEB 1, 82</u>																																																																																																																																																																						
5. WELL CONSTRUCTION Casing schedule: ☒ Steel ☐ Concrete ☐ Other *** PVC Thickness _____ Diameter _____ From _____ To _____ 0.250 inches 12.75 inches 720.6 feet 850.8 feet 0.250 inches 8.62 inches 812.3 feet 973.2 feet 0.250 inches 6.62 inches 944.2 feet 983.8 feet 0.219 inches 6.62 inches 983.8 feet 1200 feet Was casing drive shoe used? ☒ Yes ☐ No Was a packer or seal used? ☒ Yes ☐ No Perforated? ☒ Factory ☐ Knife ☒ Torch-HORIZ Size of perforation <u>1/8</u> inches by <u>3</u> inches <u>1/16</u> x 8 Number _____ From _____ To _____ 2784 perforations 728 feet 850 feet *236 perforations 844 feet 904 feet *84 perforations 935 feet 952 feet Well screen installed? ☐ Yes ☒ No Manufacturer's name _____ Type _____ Model No. _____ Diameter _____ Slot size _____ Set from _____ feet to _____ feet Diameter _____ Slot size _____ Set from _____ feet to _____ feet Gravel packed? ☐ Yes ☒ No ☐ Size of gravel _____ Placed from _____ feet to _____ feet Surface seal depth _____ Material used in seal: ☐ Cement grout ☐ Puddling clay ☐ Well cuttings Sealing procedure used: ☐ Slurry pit ☐ Temp. surface casing ☐ Overbore to seal depth Method of joining casing: ☐ Threaded ☐ Welded ☐ Solvent Weld ☐ Cemented between strata Describe access port <u>30° FROM VERTICAL, 1 1/2 INCH PIPE</u> WITH COUPLER & PLUG WILL BE INSTALLED AFTER THE PUMP TEST.		11. DRILLERS CERTIFICATION I/We certify that all minimum well construction standards were complied with at the time the rig was removed. Firm Name <u>ARTESIAN CO.</u> Firm No. <u>318</u> Address <u>125 W. 36th St.</u> <u>14th Home ID 83147</u> FEB 15, 1982 Signed by (Firm Official) <u>Hugh Harden</u> and (Operator) <u>Hugh Harden</u>																																																																																																																																																																						
6. LOCATION OF WELL Sketch map location must agree with written location.  Subdivision Name _____ Lot No. _____ Block No. _____ County <u>ELMORE</u> S. 1/4 SW 1/4 Sec. 14, T. 2S, R. 4E, E.W.																																																																																																																																																																								

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

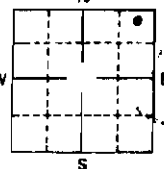
--PAGE 2 OF 2 PAGES

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

1. WELL OWNER Name <u>GERALD J. CUNNINGHAM</u> Address <u>GRANDVIEW, IDAHO 83623</u> Owner's Permit No. <u>61-7253</u>		7. WATER LEVEL Static water level <u>409</u> feet below land surface. Flowing? ☐ Yes ☐ No G.P.M. flow _____ Artesian closed-in pressure _____ p.s.i. Controlled by: ☐ Valve ☐ Cap ☐ Plug Temperature _____ °F Quality _____																																																																																																																																																																																										
2. NATURE OF WORK ☐ New well ☐ Deepened ☐ Replacement ☐ Abandoned (describe method of abandoning) _____		8. WELL TEST DATA ☐ Pump ☐ Bailor ☐ Air ☐ Other _____ Discharge G.P.M. _____ Pumping Level _____ Hours Pumped _____ Department _____ Western _____																																																																																																																																																																																										
3. PROPOSED USE ☒ Domestic ☒ Irrigation ☐ Test ☐ Municipal ☐ Industrial ☐ Stock ☐ Waste Disposal or Injection ☐ Other _____ (specify type) _____		9. LITHOLOGIC LOG 86006 <table border="1"><thead><tr><th>Hole Diam.</th><th>Depth From</th><th>To</th><th>Material</th><th>Water Yes No</th></tr></thead><tbody><tr><td>8"</td><td>1134</td><td>1137</td><td>TAN SILTY SAND</td><td>x</td></tr><tr><td>1</td><td>1137</td><td>1138</td><td>TAN SANDY CLAY</td><td>x</td></tr><tr><td>TO</td><td>1138</td><td>1145</td><td>TAN SILTY SAND</td><td>x</td></tr><tr><td>1</td><td>1145</td><td>1158</td><td>TAN SANDY CLAY</td><td>x</td></tr><tr><td>21"</td><td>1158</td><td>1160</td><td>TAN SILTY SAND</td><td>x</td></tr><tr><td>1</td><td>1160</td><td>1168</td><td>TAN SANDY CLAY</td><td>x</td></tr><tr><td>1</td><td>1168</td><td>1170</td><td>TAN SILTY SAND</td><td>x</td></tr><tr><td>1</td><td>1170</td><td>1171</td><td>TAN SANDY CLAY</td><td>x</td></tr><tr><td>1</td><td>1171</td><td>1173</td><td>TAN SAND</td><td>x</td></tr><tr><td>1</td><td>1173</td><td>1176</td><td>TAN SANDY CLAY</td><td>x</td></tr><tr><td>1</td><td>1176</td><td>1176</td><td>TAN SANDSTONE</td><td>x</td></tr><tr><td>1</td><td>1176</td><td>1186</td><td>TAN SANDY CLAY</td><td>x</td></tr><tr><td>1</td><td>1186</td><td>1186</td><td>TAN SANDSTONE</td><td>x</td></tr><tr><td>1</td><td>1186</td><td>1190</td><td>TAN SANDY CLAY</td><td>x</td></tr><tr><td>1</td><td>1190</td><td>1191</td><td>TAN SAND & GRAVEL</td><td>x</td></tr><tr><td>1</td><td>1191</td><td>1198</td><td>TAN BOULDER CLAY (COBBLES)</td><td>x</td></tr><tr><td>1</td><td>1198</td><td>1204</td><td>TAN SANDSTONE</td><td>x</td></tr><tr><td>1</td><td>1204</td><td>1206</td><td>TAN BOULDER CLAY</td><td>x</td></tr><tr><td>8/6"</td><td>1206</td><td>1220</td><td>LT. GREY SANDY CLAY</td><td>x</td></tr><tr><td>5"</td><td>1220</td><td>1223</td><td>LT. GREY SILTY SAND</td><td>x</td></tr><tr><td>TO</td><td>1223</td><td>1232</td><td>LT. GREY SANDY SILT</td><td>x</td></tr><tr><td>34/7"</td><td>1232</td><td>1236</td><td>LT. GREY SAND</td><td>x</td></tr><tr><td>1</td><td>1236</td><td>1240</td><td>LT. GREY SANDY SILT</td><td>x</td></tr><tr><td>1</td><td>1240</td><td>1242</td><td>SAND</td><td>x</td></tr><tr><td>1</td><td>1242</td><td>1246</td><td>SANDY SILT</td><td>x</td></tr><tr><td>1</td><td>1246</td><td>1252</td><td>SAND</td><td>x</td></tr><tr><td>1</td><td>1252</td><td>1255</td><td>SILT</td><td>x</td></tr><tr><td>1</td><td>1255</td><td>1262</td><td>SAND & SILT LAYERS</td><td>x</td></tr><tr><td>1</td><td>1262</td><td>1280</td><td>DK. GREY CLAY</td><td>x</td></tr><tr><td>1</td><td>1280</td><td>1281</td><td>OLIVE SAND</td><td>x</td></tr><tr><td>1</td><td>1281</td><td>1299</td><td>DK. GREY CLAY</td><td>x</td></tr><tr><td>1</td><td>1299</td><td>1323</td><td>OLIVE SANDS & SILTS</td><td>x</td></tr><tr><td>1</td><td>1323</td><td>1323</td><td>TAN SANDSTONE</td><td>x</td></tr><tr><td>1</td><td>1323</td><td>1330</td><td>DK. GREY SANDS & SILTS</td><td>x</td></tr><tr><td>1</td><td>1330</td><td>1330</td><td>TAN SANDSTONE</td><td>x</td></tr><tr><td>1</td><td>1330</td><td>1347</td><td>DK. GREY SANDS & SILTS</td><td>x</td></tr></tbody></table>		Hole Diam.	Depth From	To	Material	Water Yes No	8"	1134	1137	TAN SILTY SAND	x	1	1137	1138	TAN SANDY CLAY	x	TO	1138	1145	TAN SILTY SAND	x	1	1145	1158	TAN SANDY CLAY	x	21"	1158	1160	TAN SILTY SAND	x	1	1160	1168	TAN SANDY CLAY	x	1	1168	1170	TAN SILTY SAND	x	1	1170	1171	TAN SANDY CLAY	x	1	1171	1173	TAN SAND	x	1	1173	1176	TAN SANDY CLAY	x	1	1176	1176	TAN SANDSTONE	x	1	1176	1186	TAN SANDY CLAY	x	1	1186	1186	TAN SANDSTONE	x	1	1186	1190	TAN SANDY CLAY	x	1	1190	1191	TAN SAND & GRAVEL	x	1	1191	1198	TAN BOULDER CLAY (COBBLES)	x	1	1198	1204	TAN SANDSTONE	x	1	1204	1206	TAN BOULDER CLAY	x	8/6"	1206	1220	LT. GREY SANDY CLAY	x	5"	1220	1223	LT. GREY SILTY SAND	x	TO	1223	1232	LT. GREY SANDY SILT	x	34/7"	1232	1236	LT. GREY SAND	x	1	1236	1240	LT. GREY SANDY SILT	x	1	1240	1242	SAND	x	1	1242	1246	SANDY SILT	x	1	1246	1252	SAND	x	1	1252	1255	SILT	x	1	1255	1262	SAND & SILT LAYERS	x	1	1262	1280	DK. GREY CLAY	x	1	1280	1281	OLIVE SAND	x	1	1281	1299	DK. GREY CLAY	x	1	1299	1323	OLIVE SANDS & SILTS	x	1	1323	1323	TAN SANDSTONE	x	1	1323	1330	DK. GREY SANDS & SILTS	x	1	1330	1330	TAN SANDSTONE	x	1	1330	1347	DK. GREY SANDS & SILTS	x
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5. WELL CONSTRUCTION Casing schedule: ☐ Steel ☐ Concrete ☐ Other _____ Thickness _____ Diameter _____ From _____ To _____ _____ inches _____ inches + _____ feet _____ feet _____ inches _____ inches _____ feet _____ feet _____ inches _____ inches _____ feet _____ feet Was casing drive shoe used? ☒ Yes ☐ No TOTAL OF SIX Was a packer or seal used? ☐ Yes ☐ No ** Perforated? ☒ Yes ☐ No 1/16" HORIZ How perforated? ☒ Factory ☐ Hand ☐ Torch Size of perforation 1/8 inches by 3 inches **156 perforations 944 feet 984 feet 3360 perforations 984 feet 1265 feet _____ perforations _____ feet _____ feet Well screen installed? ☐ Yes ☐ No Manufacturer's name _____ Type _____ Model No. _____ Diameter _____ Slot size _____ Set from _____ feet to _____ feet Diameter _____ Slot size _____ Set from _____ feet to _____ feet Gravel packed? ☐ Yes ☐ No ☐ Size of gravel _____ Placed from _____ feet to _____ feet Surface seal depth _____ Material used in seal: ☐ Cement grout ☐ Pudding clay ☐ Well cuttings Sealing procedure used: ☐ Slurry pit ☐ Temp. surface casing ☐ Overbore to seal depth Method of joining casing: ☐ Threaded ☐ Welded ☐ Solvent Weld _____ ☐ Cemented between strata Describe access port _____																																																																																																																																																																																												
6. LOCATION OF WELL Sketch map location must agree with written location.  Subdivision Name _____ Lot No. _____ Block No. _____ County <u>SW 1/4 SW 1/4 Sec. 14, T. 2, N. 8 R. 4 E.W.</u>		11. DRILLERS CERTIFICATION I/We certify that all minimum well construction standards were complied with at the time the rig was removed. Firm Name <u>ARTESIAN CO.</u> Firm No. <u>318</u> <u>7425 WEST 36TH SOUTH</u> Address <u>MTN. HOME, ID 83647</u> Date <u>FEB 1, 1992</u> Signed by (Firm Official) <u>HUGH HARDEN</u> and (Operator) <u>Hugh Harden</u>																																																																																																																																																																																										

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

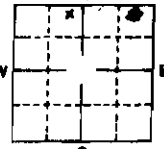
STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORTUSE TYPEWRITER OR
BALLPOINT PENState law requires that this report be filed with the Director, Department of Water Resources
within 30 days after the completion or abandonment of the well.

1. WELL OWNER Name <u>MICHAEL F & LINDA R. LYONS</u> Address <u>Box 175</u> <u>MTN HOME, ID 83647</u> Owner's Permit No. <u>61-90-W-009</u>		7. WATER LEVEL DEC 03 1990 Static water level <u>420'</u> feet below land surface Flowing? ☐ Yes ☒ No G.P.M. flow <u> </u> Artesian closed-in pressure <u> </u> p.s.i. Controlled by: ☐ Valve ☐ Cap ☐ Plug Temperature <u>58</u> °F. Quality <u>6000</u> Describe erosion or temperature zones below <u> </u>																																																																																																																																									
2. NATURE OF WORK ☒ New well ☐ Deepened ☐ Replacement ☐ Well diameter increase ☐ Abandoned (describe abandonment procedures such as materials, plug depths, etc. in lithologic log)		8. WELL TEST DATA ☐ Pump ☒ Bailor ☐ Air ☐ Other <u> </u> <table border="1"><thead><tr><th>Discharge G.P.M.</th><th>Pumping Level</th><th>Hours Pumped</th></tr></thead><tbody><tr><td><u>6.4</u></td><td><u>420'</u></td><td><u>2</u></td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr></tbody></table>		Discharge G.P.M.	Pumping Level	Hours Pumped	<u>6.4</u>	<u>420'</u>	<u>2</u>																																																																																																																																		
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6. LOCATION OF WELL Sketch map location must agree with location.  Subdivision Name <u> </u> Lot No. <u>344</u> Block No. <u> </u> County <u>EL MORE</u> NE 1/4 NE 1/4 Sec. <u>4</u> T. <u>2</u> N. S. R. <u>5</u> E. W. <u> </u>																																																																																																																																											

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.

APR

1. WELL OWNER Name <u>RAYMOND L. ROBERTS & IRENE D. ROBERTS</u> Address <u>P.O. BOX 175, MOUNTAIN HOME, ID 83647</u> Owner's Permit No. _____		7. WATER LEVEL Static water level <u>385</u> feet below land surface. Flowing? ☐ Yes ☒ No G.P.M. flow _____ Artesian closed-in pressure _____ p.s.i. Controlled by: ☐ Valve ☐ Cap ☐ Plug Temperature <u>59.5</u> °F. Quality <u>GOOD</u>																																																																																																																																																																												
2. NATURE OF WORK ☒ New well ☐ Deepened ☐ Replacement ☐ Abandoned (describe method of abandoning) _____		8. WELL TEST DATA ☐ Pump ☒ Baller ☐ Air ☐ Other _____																																																																																																																																																																												
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359	359		CLAY, GRAVELLY	X																																																																																																																																																																										
5. WELL CONSTRUCTION Casing schedule: ☒ Steel ☐ Concrete ☐ Other <u>PVC</u> Thickness Diameter From To <u>0.250</u> inches <u>8 5/8</u> inches <u>1.5</u> feet <u>44.5</u> feet <u>0.250</u> inches <u>6 5/8</u> inches <u>1.2</u> feet <u>307.4</u> feet <u>0.250</u> inches <u>6 5/8</u> inches <u>307.4</u> feet <u>463.1</u> feet Was casing drive shoe used? ☐ Yes ☒ No <u>6" SCH 40</u> Was a pecker or seal used? ☐ Yes ☒ No <u>COUPLING</u> Perforated? ☒ Yes ☐ No <u>SAND</u> How perforated? ☐ Factory ☐ Knife ☒ <u>MANUAL</u> Size of perforation <u>0.000</u> inches by <u>5</u> inches <u>ON 1/2"</u> Number From To <u>250</u> perforations <u>394.4</u> feet <u>449.6</u> feet perforations _____ feet _____ feet perforations _____ feet _____ feet Well screen installed? ☐ Yes ☒ No Manufacturer's name _____ Type _____ Model No. _____ Diameter _____ Slot size _____ Set from _____ feet to _____ feet Diameter _____ Slot size _____ Set from _____ feet to _____ feet Gravel packed? ☐ Yes ☐ No ☐ Size of gravel _____ Placed from _____ feet to _____ feet Surface seal depth <u>44.5</u> Material used in seal: ☐ Cement grout ☒ Puddling clay ☐ Well cuttings Sealing procedure used: ☒ Slurry pit ☐ Temp. surface casing ☐ Overbore to seal depth Method of joining casing: ☐ Threaded ☒ Welded ☐ Solvent Weld ☐ Cemented between struts Describe access port <u>REMOVE FITLESS CAP AND HAVE ACCESS TO TOP OF CASING.</u>		10. SHEET 1 OF 2 SHEETS Work started _____ finished <u>3/17/83</u>																																																																																																																																																																												
6. LOCATION OF WELL Sketch map location must agree with written location.  County <u>ELMORE</u> Subdivision Name _____ Lot No. _____ Block No. _____ NE 1/4 NW 1/4 Sec. <u>14</u> T. <u>20</u> N/S, R. <u>5E</u> E/W.		11. DRILLERS CERTIFICATION I/We certify that all minimum well construction standards were complied with at the time the rig was removed. Firm Name <u>Artesian Co</u> Firm No. <u>318</u> Address _____ Date <u>30 March 83</u> Signed by (Firm Official) <u>Hardin</u> and (Operator) _____																																																																																																																																																																												

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

APR 1 1985
The 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.

NAME: RAYMOND L. & LORNE D. ROGERS
Address: _____
Owner's Permit No.: _____

2. NATURE OF WORK
☐ New well ☐ Deepened ☐ Replacement
☐ Abandoned (describe method of abandonment)

3. PROPOSED USE
☐ Domestic ☐ Irrigation ☐ Test ☐ Municipal
☐ Industrial ☐ Stock ☐ Waste disposal or injection
☐ Other (specify type)

4. METHOD DRILLED
☐ Cable ☐ Rotary ☐ Air ☐ Hydraulic ☐ Reverse rotary
☐ Other

6. WELL CONSTRUCTION

Casing schedule: ☐ Steel ☐ Concrete ☐ Other

Thickness: _____ inches

From _____ To _____

Was casing drive shoe used? ☐ Yes ☐ No

Was a packer or seal used? ☐ Yes ☐ No

Perforated? ☐ Yes ☐ No

How perforated? ☐ Knife ☐ Torch

Size of perforation: _____ inches by _____ inches

Number of perforations: _____

From _____ To _____

Well screen installed? ☐ Yes ☐ No

Manufacturer's name: _____

Type: _____

Model No.: _____

Diameter: _____ feet to _____ feet

Slot size: _____ feet to _____ feet

Set from _____ feet to _____ feet

Placed from _____ feet to _____ feet

Surface seal depth: _____ feet

Material used in seal: ☐ Cement grout ☐ Well cuttings ☐ Pudding clay ☐ Temp. surface casing ☐ Slurry pit ☐ Overbore to seal depth ☐ Welded ☐ Solvent

Method of joining casing: ☐ Threaded ☐ Welded ☐ Solvent

Describe access port: _____

5. LOCATION OF WELL

Sketch map location must agree with written location.

County: ELMORE

Subdivision Name: _____

Lot No.: _____ Block No.: _____

NE NW SE E W S

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

7. WATER LEVEL

Static water level: 385 feet below land surface.

G.P.M. flow: _____

Flowing? ☐ Yes ☐ No

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

Controlled by: ☐ Valve ☐ Cap ☐ Plug

Temperature of: _____ Quality

8. WELL TEST DATA

Discharge G.P.M.: _____

Pumping Level: _____

Hours Pumped: _____

☐ Pump ☐ Bailor ☐ Air ☐ Other

9. LITHOLOGIC LOG

Depth	Material	Yes	No
0-1	GRAVEL, SAND, CLAY, GNESS	X	
1-2	GRAVEL, SAND, CLAY, GNESS	X	
2-3	GRAVEL, SAND, CLAY, GNESS	X	
3-4	GRAVEL, SAND, CLAY, GNESS	X	
4-5	GRAVEL, SAND, CLAY, GNESS	X	
5-6	GRAVEL, SAND, CLAY, GNESS	X	
6-7	GRAVEL, SAND, CLAY, GNESS	X	
7-8	GRAVEL, SAND, CLAY, GNESS	X	
8-9	GRAVEL, SAND, CLAY, GNESS	X	
9-10	GRAVEL, SAND, CLAY, GNESS	X	
10-11	GRAVEL, SAND, CLAY, GNESS	X	
11-12	GRAVEL, SAND, CLAY, GNESS	X	
12-13	GRAVEL, SAND, CLAY, GNESS	X	
13-14	GRAVEL, SAND, CLAY, GNESS	X	
14-15	GRAVEL, SAND, CLAY, GNESS	X	
15-16	GRAVEL, SAND, CLAY, GNESS	X	
16-17	GRAVEL, SAND, CLAY, GNESS	X	
17-18	GRAVEL, SAND, CLAY, GNESS	X	
18-19	GRAVEL, SAND, CLAY, GNESS	X	
19-20	GRAVEL, SAND, CLAY, GNESS	X	
20-21	GRAVEL, SAND, CLAY, GNESS	X	
21-22	GRAVEL, SAND, CLAY, GNESS	X	
22-23	GRAVEL, SAND, CLAY, GNESS	X	
23-24	GRAVEL, SAND, CLAY, GNESS	X	
24-25	GRAVEL, SAND, CLAY, GNESS	X	
25-26	GRAVEL, SAND, CLAY, GNESS	X	
26-27	GRAVEL, SAND, CLAY, GNESS	X	
27-28	GRAVEL, SAND, CLAY, GNESS	X	
28-29	GRAVEL, SAND, CLAY, GNESS	X	
29-30	GRAVEL, SAND, CLAY, GNESS	X	
30-31	GRAVEL, SAND, CLAY, GNESS	X	
31-32	GRAVEL, SAND, CLAY, GNESS	X	
32-33	GRAVEL, SAND, CLAY, GNESS	X	
33-34	GRAVEL, SAND, CLAY, GNESS	X	
34-35	GRAVEL, SAND, CLAY, GNESS	X	
35-36	GRAVEL, SAND, CLAY, GNESS	X	
36-37	GRAVEL, SAND, CLAY, GNESS	X	
37-38	GRAVEL, SAND, CLAY, GNESS	X	
38-39	GRAVEL, SAND, CLAY, GNESS	X	
39-40	GRAVEL, SAND, CLAY, GNESS	X	
40-41	GRAVEL, SAND, CLAY, GNESS	X	
41-42	GRAVEL, SAND, CLAY, GNESS	X	
42-43	GRAVEL, SAND, CLAY, GNESS	X	
43-44	GRAVEL, SAND, CLAY, GNESS	X	
44-45	GRAVEL, SAND, CLAY, GNESS	X	
45-46	GRAVEL, SAND, CLAY, GNESS	X	
46-47	GRAVEL, SAND, CLAY, GNESS	X	
47-48	GRAVEL, SAND, CLAY, GNESS	X	
48-49	GRAVEL, SAND, CLAY, GNESS	X	
49-50	GRAVEL, SAND, CLAY, GNESS	X	
50-51	GRAVEL, SAND, CLAY, GNESS	X	
51-52	GRAVEL, SAND, CLAY, GNESS	X	
52-53	GRAVEL, SAND, CLAY, GNESS	X	
53-54	GRAVEL, SAND, CLAY, GNESS	X	
54-55	GRAVEL, SAND, CLAY, GNESS	X	
55-56	GRAVEL, SAND, CLAY, GNESS	X	
56-57	GRAVEL, SAND, CLAY, GNESS	X	
57-58	GRAVEL, SAND, CLAY, GNESS	X	
58-59	GRAVEL, SAND, CLAY, GNESS	X	
59-60	GRAVEL, SAND, CLAY, GNESS	X	
60-61	GRAVEL, SAND, CLAY, GNESS	X	
61-62	GRAVEL, SAND, CLAY, GNESS	X	
62-63	GRAVEL, SAND, CLAY, GNESS	X	
63-64	GRAVEL, SAND, CLAY, GNESS	X	
64-65	GRAVEL, SAND, CLAY, GNESS	X	
65-66	GRAVEL, SAND, CLAY, GNESS	X	
66-67	GRAVEL, SAND, CLAY, GNESS	X	
67-68	GRAVEL, SAND, CLAY, GNESS	X	
68-69	GRAVEL, SAND, CLAY, GNESS	X	
69-70	GRAVEL, SAND, CLAY, GNESS	X	
70-71	GRAVEL, SAND, CLAY, GNESS	X	
71-72	GRAVEL, SAND, CLAY, GNESS	X	
72-73	GRAVEL, SAND, CLAY, GNESS	X	
73-74	GRAVEL, SAND, CLAY, GNESS	X	
74-75	GRAVEL, SAND, CLAY, GNESS	X	
75-76	GRAVEL, SAND, CLAY, GNESS	X	
76-77	GRAVEL, SAND, CLAY, GNESS	X	
77-78	GRAVEL, SAND, CLAY, GNESS	X	
78-79	GRAVEL, SAND, CLAY, GNESS	X	
79-80	GRAVEL, SAND, CLAY, GNESS	X	
80-81	GRAVEL, SAND, CLAY, GNESS	X	
81-82	GRAVEL, SAND, CLAY, GNESS	X	
82-83	GRAVEL, SAND, CLAY, GNESS	X	
83-84	GRAVEL, SAND, CLAY, GNESS	X	
84-85	GRAVEL, SAND, CLAY, GNESS	X	
85-86	GRAVEL, SAND, CLAY, GNESS	X	
86-87	GRAVEL, SAND, CLAY, GNESS	X	
87-88	GRAVEL, SAND, CLAY, GNESS	X	
88-89	GRAVEL, SAND, CLAY, GNESS	X	
89-90	GRAVEL, SAND, CLAY, GNESS	X	
90-91	GRAVEL, SAND, CLAY, GNESS	X	
91-92	GRAVEL, SAND, CLAY, GNESS	X	
92-93	GRAVEL, SAND, CLAY, GNESS	X	
93-94	GRAVEL, SAND, CLAY, GNESS	X	
94-95	GRAVEL, SAND, CLAY, GNESS	X	
95-96	GRAVEL, SAND, CLAY, GNESS	X	
96-97	GRAVEL, SAND, CLAY, GNESS	X	
97-98	GRAVEL, SAND, CLAY, GNESS	X	
98-99	GRAVEL, SAND, CLAY, GNESS	X	
99-100	GRAVEL, SAND, CLAY, GNESS	X	

10. Work started JANUARY 28 finished MAY 17, 1983

11. DRILLERS CERTIFICATION

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

Firm Name: AMERICAN CO. Firm No. 318

Address: 7425 W. 36TH SOUTH Date 30 MAR 1983

Signed by (Firm Official): HUGH HARDEN and (Operator):

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

Not a Water Well

REPORT OF WELL DRILLER State of Idaho

RECEIVED

JUL 21 1967

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

WELL OWNER EL PASO natural gas
Name Corrosion Alkali Inc.

Address 2040 W. WALKER
2040 W. WALKER
Boise, Idaho

Owner's Permit No. _____

NATURE OF WORK (check): Replacement well ☐
New well ☐ Deepened ☐ Abandoned ☐

Water is to be used for: Deep Aquifer Recharge

METHOD OF CONSTRUCTION: Rotary ☒ Cable ☐
Dug ☐ Other ☐

CASING SCHEDULE: Threaded ☐ Welded ☒

"Diam. from _____ ft. to _____ ft.

"Diam. from _____ ft. to _____ ft.

"Diam. from _____ ft. to _____ ft.

"Diam. from _____ ft. to _____ ft.

Thickness of casing: _____ Material: _____

Steel ☐ concrete ☐ wood ☐ other ☐

(explain)
PERFORATED? Yes ☐ No ☐ Type of
perforator used: _____

Size of perforations: " by "
perforations from _____ ft. to _____ ft.
perforations from _____ ft. to _____ ft.
perforations from _____ ft. to _____ ft.
perforations from _____ ft. to _____ ft.

WAS SCREEN INSTALLED? Yes ☐ No ☐

Manufacturer's name _____

Type _____ Model No. _____

Diam. _____ Slot size _____ Set from _____ ft. to _____ ft.

Diam. _____ Slot size _____ Set from _____ ft. to _____ ft.

CONSTRUCTION: Well gravel packed? Yes ☐

No. ☐ size of gravel _____ Gravel

placed from _____ ft. to _____ ft. Surface seal

provided? Yes ☐ No ☐ To what depth?

_____ ft. Material used in seal: _____

Did any strata contain unusable water? Yes ☐

No. ☐ Type of water: _____

Depth of strata _____ ft. Method of sealing

strata off: _____

Surface casing used? Yes ☐ No ☒

Cemented in place? Yes ☐ No ☒

Locate well in section

LOCATION OF WELL: County 2

* * * Sec. 5 T. 2 S. R. 5 E. 3

Size of drilled hole: 16 Total
depth of well: 300 Standing water
level below ground: dry Temp. _____
Fahr. _____ Test delivery: _____ gpm
or _____ cfs Pump? ☐ Bail ☐
Size of pump and motor used to make test: _____

Length of time of test: _____ Hrs. _____ Min.

Drawdown: _____ ft. Artesian pressure: ft. _____

above land surface _____ Give flow _____ cfs

or _____ gpm. Shutoff pressure: _____

Controlled by: Valve ☐ Cap ☐ Plug ☐

No control ☐ Does well leak around casing? _____

Yes ☐ No ☐

DEPTH MATERIAL WATER

FROM TO YES OR NO

FEET FEET

0 43 Surface

43 93 Clay & Gravel

93 175 Red Lava

175 253 Clay & Gravel

253 270 Coarse Gravel & Red Clay

270 296 Red Lava - Coarse

296 300 Red Clay

Work started: Jan 1964

Work finished: Jan 1964

Well Driller's Statement: This well was

drilled under my supervision and this report

is true to the best of my knowledge.

Name: Eugene H. Walker

Address: _____

Signed by: _____

License No. 15 Date: 3 July 67

USGS

Use other side for additional remarks

IDAHO DEPARTMENT OF WATER RESOURCES

WELL DRILLER'S REPORT 064227

Use Typewriter or Ballpoint Pen

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

1. DRILLING PERMIT NO. 61-95 - W-0049 - 001

Other IDWR No. _____

2. OWNER:

Name IDAHO WASTE SYSTEMS MW-1

Address HC 79 BOX 2230

City OREANA State ID Zip 83650

3. LOCATION OF WELL by legal description:

Sketch map location must agree with written location.

N
W
E
S
Twp. 2 North ☐ or South ☒
Rge. 5 East ☒ or West ☐
Sec. 7 NW 1/4 SE 1/4 SW 1/4
Gov't Lot _____ County ELMORE
Lat. : : Long. : :
Address of Well Site SIMCO RD.
City MTN HOME
(Give at least name of road + Distance to Road or Landmark)
Lt. _____ Blk. _____ Sub. Name _____

4. USE:

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

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

- ☒ New Well ☐ Modify ☐ Abandonment ☐ Other _____

6. DRILL METHOD

- ☒ Air Rotary ☐ Cable ☐ Mud Rotary ☐ Other _____

7. SEALING PROCEDURES

SEAL/FILTER PACK			AMOUNT		METHOD
Material	From	To	Sacks or Pounds		
BENTONITE	0	75	8 sack		OVERBORE

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

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

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
8 5/8	+2	75	250	STEEL	☒	☐	☒	☐
4 1/2	+2	483	sh40	PVC	☐	☒	☐	☒
					☐	☐	☐	☐

Length of Headpipe _____ Length of Tailpipe _____

9. PERFORATIONS/SCREENS

- ☐ Perforations Method _____
☒ Screens Screen Type STAINLESS STEEL

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
483	503	010		4.5	S.S.	☐	☒
						☐	☐
						☐	☐

10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

463 ft. below ground Artesian pressure _____ lb.

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

11. WELL TESTS:

- ☐ Pump ☐ Baller ☒ Air ☐ Flowing Artesian

Yield gal./min.	Drawdown	Pumping Level	Time
30			

Water Temp. _____ Bottom hole temp. _____

Water Quality test or comments: _____

Depth first Water Encountered _____

12. LITHOLOGIC LOG: (Describe repairs or abandonment)

Bore Dia.	From	To	Remarks: Lithology, Water Quality & Temperature	Y	N
10	0	4	soil		
10	4	23	sand		
10	23	25	brown clay		
10	25	28	sandy clay		
10	28	47	brown sandy clay		
10	47	50	gravel		
10	50	56	sand		
10	56	70	sandy clay		
10	70	72	basalt, gravel		
10	72	75	basalt & sand stone		
8	75	115	gray basalt		
8	115	126	brown basalt		
8	126	168	gray basalt		
8	168	178	gray & brown basalt		
8	178	214	gray basalt		
8	214	218	brown & gray basalt & clay		
8	218	254	gray basalt		
8	254	269	brown basalt		
8	269	295	gray basalt		
8	295	310	brown cinder		
8	310	334	gray basalt		
8	334	350	brown basalt water talc		
8	350	387	gray basalt		
8	387	394	brown basalt water talc		
8	394	522	red cinder & some brown cinder	X	
RECEIVED					
RECEIVED					
SEP 06 1995					
SEP 01 1995					
WATER RESOURCES WESTERN REGION					
Completed Depth 508' (Measurable)					
Date Started 8-08-95 Completed 8-14-95					

13. DRILLER'S CERTIFICATION

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

Firm Name HIDDLESTON & SON, INC. Firm No. 35

Firm Official K. K. K. Date 8-30-95

and Supervisor or Operator K. K. K. Date 8-30-95

(Sign once if Firm Official & Operator)

FORWARD WHITE COPY TO WATER RESOURCES

IDAHO DEPARTMENT OF WATER RESOURCES WELL DRILLER'S REPORT

61-99-W-0041-001

053607

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

1. DRILLING PERMIT NO.

Other IDWR No. D0009821 MW-5

2. OWNER:

Name Idaho Waste Systems-Pacific

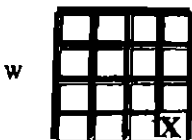
Address P.O. Box 1386

City Mtn Home State ID Zip 83647

3. LOCATION OF WELL by legal description:

Sketch map location must agree with written location

N



Twp. 2 North ☐ or South X

Rge. 5 East X or West ☐

Sec. 7 1/4 SE 1/4 SE 1/4

W

Gov't lot County Elmore

Lat: Long:

Address of Well Site Simco Rd.

City Mtn Home

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

Lt. Blk. Sub. Name

4. USE:

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

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

X New Well ☐ Modify ☐ Abandonment ☐ Other

6. DRILL METHOD

X Air Rotary ☐ Cable ☐ Mud Rotary ☐ Other

7. SEALING PROCEDURES

Material	SEAL/FILTER PACK		AMOUNT	METHOD
	From	To		
Bentonite	0	18	900 lbs	Overbore
Bentonite	+2	466	8200 lbs	Overbore
Sand 10-20	466	495	900 lbs	Overbore

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

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

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
8.625	+2	70	250	Steel	X	☐	X	☐
4"	+2	474	Sch40	PVC	☐	X	☐	X

Length of Headpipe 474' Length of Tailpipe -0-

9. PERFORATIONS/SCREENS

☐ Perforations Method

X Screens Screen Type Johnsons

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
474	494	.010		4"	SS	☐	☐

10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

474 ft. below ground

Depth flow encountered

Artesian Pressure lb

Describe access port or control

11. WELL TESTS:

☐ Pump ☐ Bailor X Air ☐ Flowing Artesian

Yield gal/min.	Drawdown	Pumping Level	Time

Water Temp. Bottom hole temp.

Water Quality test or comments:

Depth first Water Encountered

12. LITHOLOGIC LOG: (Describe repairs or abandonment)

Water				Y	N
Bore Dia	From	To	Remarks: Lithology, Water Quality & Temp.		
12	0	4	Soil		X
12	4	7	Hard Pan		X
12-8	7	27	Sandy Clay		X
8	27	33	Silty Clay		X
8	33	43	Sand & Gravel		X
8	43	47	Brown Clay & Some Sand		X
8	47	63	Sand, Gravel, & Clay		X
8	63	69	Brown Clay		X
8	69	120	Gray Lava		X
8	120	125	Brown Lava & Cinder		X
8	125	147	Gray Lava		X
8	147	149	Brown Cinder		X
8	149	180	Gray Lava		X
8	180	188	Red & Brown Cinder		X
8	188	193	Gray Lava		X
8	193	236	Brown Lava & Cinder		X
8	236	245	Gray Lava		X
8	245	253	Brown Lava & Cinder		X
8	253	286	Gray Lava & Cinder		X
8	286	298	Red & Brown Cinder		X
8	298	302	Gray Lava		X
8	302	310	Brown Lava & Cinder		X
8	310	324	Gray Lava		X
8	324	339	Gray & Black Lava & Cinder		X
8	339	380	Brown Lava & Cinder		X
8	380	419	Gray Lava		X
8	419	422	Brown Lava & Cinder		X
8	422	451	Gray Lava		X

MICROFILMED

Page 1 of 2

Completed Depth: 495 (Measurable)

7/19/99 2071 7/22/99

13. DRILLER'S CERTIFICATION

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

Firm Name Hiddleston & Son, Inc.

Firm No. 35

Firm Official *Kean Kesh*

Date 7-26-99

Supervisor or Operator

Date

(Sign once if Firm Official & Operator)

RECEIVED
JUL 27 1999

RECEIVED

WATER RESOURCES
WESTERN REGION

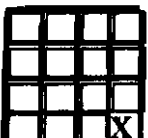
AUG 03 1999

Department of Water Resources

IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

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

1. DRILLING PERMIT NO. 61-99-W-0041-001
Other IDWR No. D0009821 MW-5
2. OWNER:
Name Idaho Waste Systems-Pacific
Address P.O. Box 1386
City Mtn Home State ID Zip 83647
3. LOCATION OF WELL by legal description:
Sketch map location must agree with written location

W  Twp. 2 North ☐ or South ☒
Rge. 5 East ☒ or West ☐
Sec. 7 1/4 SE 1/4 SE 1/4
10 acres 40 acres 160 acres

Gov't lot _____ County Elmore
Lat: _____ Long: _____
Address of Well Site _____
City Mtn Home

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

Lt. _____ Blk. _____ Sub. Name _____

4. USE:

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

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

☒ New Well ☐ Modify ☐ Abandonment ☐ Other _____

6. DRILL METHOD

☒ Air Rotary ☐ Cable ☐ Mud Rotary ☐ Other _____

7. SEALING PROCEDURES

SEAL/FILTER PACK		AMOUNT		METHOD
Material	From	To	Sacks or Pounds	
Bentonite	0	18	900 lbs	Overbore
Bentonite	+2	466	8200 lbs	Overbore
Sand 10-20	466	495	900 lbs	Overbore

Was drive shoe used? ☒ Y ☐ N Shoe Depth(s) 70

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

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
8.625	+2	70	250	Steel	☒ X	☐	☒ X	☐
4"	+2	474	Sch 40	PVC	☐	☒ X	☐	☒ X

Length of Headpipe 474' Length of Tailpipe 0-

9. PERFORATIONS/SCREENS

☐ Perforations Method _____
☒ Screens Screen Type Johnsons

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
474	494	.010		4"	SS	☐	☐
						☐	☐
						☐	☐

10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

474 ft. below ground
Depth flow encountered

Artesian Pressure _____ lb
Describe access port or control

devices: _____

11. WELL TESTS:

☐ Pump ☐ Bailor ☒ Air ☐ Flowing Artesian

Yield gal/min.	Drawdown	Pumping Level	Time

Water Temp. _____ Bottom hole temp. _____

Water Quality test or comments: _____

Depth first Water Encountered _____

12. LITHOLOGIC LOG: (Describe repairs or abandonment)

053608

Water

Bore Dia.	From	To	Remarks: Lithology, Water Quality & Temp.	Y	N
8	451	464	Brown Lava & Cinder		X
8	464	480	Gray Lava		X
8	480	492	Brown Cinder	X	
8	492	495	Gravel & Sand	X	

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JUL 30 1999

WATER RESOURCES
WESTERN REGION

RECEIVED

AUG 03 1999

RECEIVED

JUL 27 1999

Department of Water Resources

MICROFILMED

WATER RESOURCES
WESTERN REGION

Page 2 of 2

Completed Depth: _____ (Measurable)

Date: Started _____ Completed _____

13. DRILLER'S CERTIFICATION

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

Firm Name Hiddleston & Son, Inc.

Firm No. 35

Firm Official _____

Date _____

Supervisor or Operator _____

Date _____

(Sign once if Firm Official & Operator)

IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

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

1. DRILLING PERMIT NO.

Other IDWR No. D0009822 Hole# MW-7

2. OWNER:

Name Idaho Waste Services, Inc.

Address 12925 Alcosta Blvd. #1

City San Ramona State CA Zip 94583

3. LOCATION OF WELL by legal description:

Sketch map location must agree with written location

W

 E Twp. 2 North ☐ or South X
Rge. 5 East X or West ☐
Sec. 7 1/4 SE 1/4 SE 1/4
10 acres 40 acres 160 acres

Gov't lot _____ County Elmore

Lat: _____ Long: _____

Address of Well Site Simco Rd.

City Mtn Home

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

Lt. _____ Blk. _____ Sub. Name _____

4. USE:

- ☐ Domestic ☐ Municipal X Monitor ☐ Irrigation
☐ Thermal ☐ Injection ☐ Other

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

X New Well ☐ Modify ☐ Abandonment ☐ Other

6. DRILL METHOD

X Air Rotary ☐ Cable ☐ Mud Rotary ☐ Other

7. SEALING PROCEDURES

SEAL/FILTER PACK		AMOUNT		METHOD
Material	From	To	Sacks or Pounds	
Bentonite	0	19	600 lbs	Overbore
Bentonite	+2	466	8800 lbs	Overbore

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

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

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
8.625	+2	70	.250	Steel	X	☐	X	☐
PVC	+2	473	Sch40	PVC	☐	X	☐	X

Length of Headpipe 473 Length of Tailpipe _____

9. PERFORATIONS/SCREENS

☐ Perforations Method _____

X Screens Screen Type Johnson

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
473	493	.010		4"	Steel	☐	X

10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

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

11. WELL TESTS:

Yield gal/min.	Drawdown	Pumping Level	Time

Water Temp. _____ Bottom hole temp. _____

Water Quality test or comments: _____

Depth first Water Encountered _____

12. LITHOLOGIC LOG: (Describe repairs or abandonment)

Water				Y	N
Bore Dia	From	To	Remarks: Lithology, Water Quality & Temp.		
12	0	4	Soil	☐	X
12	4	6	Hard Pan	☐	X
12	6	15	DeGranite Sand	☐	X
12-8	15	47	Sandy Clay	☐	X
8	47	69	Gravel, Sand, & Clay	☐	X
8	69	70	Broken - Clay & Lava	☐	X
8	70	179	Gray Lava	☐	X
8	179	185	Brown Lava	☐	X
8	185	191	Brown Cinder	☐	X
8	191	206	Gray Lava, Cinder, & Clay	☐	X
8	206	218	Broken Cinder	☐	X
8	218	223	Broken Lava & Clay	☐	X
8	223	241	Gray Lava	☐	X
8	241	245	Brown Cinder	☐	X
8	245	251	Brown Lava	☐	X
8	251	256	Brown Cinder	☐	X
8	256	265	Gray Lava	☐	X
8	265	273	Brown Cinder & Clay	☐	X
8	273	278	Gray Lava	☐	X
8	278	286	Gray & Brown Cinder & Clay	☐	X
8	286	295	Gray Lava	☐	X
8	295	300	Brown Cinder	☐	X
8	300	301	Silt Stone	☐	X
8	301	307	Brown Cinder	☐	X
8	307	336	Gray Lava	☐	X
8	336	343	Brown Lava & Cinder	☐	X
8	343	351	Gray Lava	☐	X
8	351	363	Brown Cinder	☐	X
8	363	385	Gray Lava	☐	X

Completed Depth: 493 (Measurable)

Date: Started 6-30-99 Completed 7-5-99

13. DRILLER'S CERTIFICATION

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

Firm Name Hiddleston & Son, Inc. Firm No. 35

Firm Official Ken Koch Date 7-9-99

Supervisor or Operator _____ Date _____

(Sign once if Firm Official & Operator)

JUL 15 1999

WATER RESOURCES
WESTERN REGION

IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

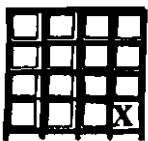
Page 2 of 2

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

1. DRILLING PERMIT NO. 61-99 - W 0042-001
Other IDWR No. D0009822 Hole# MW-7

2. OWNER:
Name Idaho Waste Services, Inc.
Address 12925 Alcosta Blvd. #1
City San Ramona State CA Zip 94583

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

W  Twp. 2 North ☐ or South X
Rge. 5 East X or West ☐
Sec. 7 1/4 SE 1/4 SE 1/4
10 acres 30 acres 160 acres
S Gov't lot _____ County Elmore

Lat: _____ Long: _____
Address of Well Site Simco Rd.
City Mtn Home

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

Lt. _____ Blk. _____ Sub. Name _____

4. USE:

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

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

X New Well ☐ Modify ☐ Abandonment ☐ Other

6. DRILL METHOD

X Air Rotary ☐ Cable ☐ Mud Rotary ☐ Other

7. SEALING PROCEDURES

SEAL/FILTER PACK		AMOUNT		METHOD
Material	From	To	Sacks or Pounds	
Bentonite	0	19	600 lbs	Overbore
Bentonite	+2	466	8800 lbs	Overbore

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

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

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
8.625	+2	70	.250	Steel	X	☐	X	☐
PVC	+2	473	Sch40	PVC	☐	X	☐	X

Length of Headpipe 473 Length of Tailpipe _____

9. PERFORATIONS/SCREENS

☐ Perforations Method _____
X Screens Screen Type Johnson

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
473	493	.010		4"	Steel	☐	X
						☐	☐

10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

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

11. WELL TESTS:

Yield gal/min.	Drawdown	Pumping Level	Time

Water Temp. _____ Bottom hole temp. _____

Water Quality test or comments: _____

Depth first Water Encountered _____

12. LITHOLOGIC LOG: (Describe repairs or abandonment)

Water	Bore Dia	From	To	Remarks: Lithology, Water Quality & Temp.	Y	N
	8	385	406	Brown Cinder	☐	X
	8	406	413	Gray Lava	☐	X
	8	413	416	Brown Cinder & Clay	☐	X
	8	416	442	Gray Lava	☐	X
	8	442	448	Brown Lava	☐	X
	8	448	469	Brown Cinder	☐	X
	8	469	477	Gray Lava & Cinder	☐	X
	8	477	493	Gray Cinder	☐	X

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Department of Water Resources

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JUL 15 1999

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WATER RESOURCES
WESTERN REGION

JUL 13 1999

Completed Depth: 493 (Measurable)
Date: Started 6-30-99 Completed 7-5-99

13. DRILLER'S CERTIFICATION

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

Firm Name Hiddleston & Son, Inc. Firm No. 35

Firm Official _____ Date _____

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

IDAHO DEPARTMENT OF WATER RESOURCES WELL DRILLER'S REPORT

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

1. DRILLING PERMIT NO. 61-99-W-0040001
Other IDWR No. D0009824 Hole# MW-13

2. OWNER:

Name Idaho Waste Systems-Pacific

Address P.O. Box 1386

City Mtn Home State ID Zip 83647

3. LOCATION OF WELL by legal description:

Sketch map location must agree with written location
N

W

 E Twp. 2 North ☐ or South ☒
Rge. 5 East ☒ or West ☐
Sec. 18 1/4 SE 1/4 SE 1/4
10 acres 40 acres 160 acres

Gov't lot _____ County Elmore

Lat: _____ Long: _____

Address of Well Site Simco Rd.

City Mtn Home

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

Lt. _____ Blk. _____ Sub. Name _____

4. USE:

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

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

☒ New Well ☐ Modify ☐ Abandonment ☐ Other _____

6. DRILL METHOD

☒ Air Rotary ☐ Cable ☐ Mud Rotary ☐ Other _____

7. SEALING PROCEDURES

SEAL/FILTER PACK		AMOUNT		METHOD
Material	From	To	Sacks or Pounds	
Bentonite	0	18	700 lbs	Overbore
Bentonite	+2	466	8000 lbs	Overbore
Sand 10-20	-466	524	1500 lbs	Overbore

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

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

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
8.625	+2	71	.250	Steel	☒	☐	☒	☐
4.5	+2	504	Sch 40	PVC	☐	☒	☐	☒

Length of Headpipe 504 Length of Tailpipe N/A

9. PERFORATIONS/SCREENS

☐ Perforations Method _____

☒ Screens Screen Type Johnson

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
504	524	010		4	SS	☐	☒
						☐	☐
						☐	☐

10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

472 ft. below ground

Depth flow encountered _____

Artesian Pressure _____ lb

Describe access port or control _____

devices: _____

11. WELL TESTS:

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

Water Temp. _____ Bottom hole temp. _____

Water Quality test or comments: _____

Depth first Water Encountered _____

12. LITHOLOGIC LOG: (Describe repairs or abandonment)

053613

Water

Bore Dia.	From	To	Remarks: Lithology, Water Quality & Temp.	Y	N
12	0	4	Soil		☒
12-8	4	21	Sand, Gravel, & Clay		☒
8	21	60	Brown Clay		☒
8	60	71	Sand, Gravel, & Clay		☒
8	71	87	Gray Lava		☒
8	87	92	Red Cinder		☒
8	92	103	Gray Lava		☒
8	103	105	Brown Cinder		☒
8	105	109	Brown & Gray Lava & Clay		☒
8	109	111	Gray Lava		☒
8	111	115	Brown Cinder		☒
8	115	117	Gray Lava		☒
8	117	118	Brown Cinder		☒
8	118	125	Gray Lava		☒
8	125	128	Brown Lava w/ Clay		☒
8	128	137	Gray Lava-Broken w/ Clay		☒
8	137	156	Gray Lava		☒
8	156	161	Brown Lava & Cinder		☒
8	161	180	Gray Lava		☒
8	180	183	Brown Cinder & Lava		☒
8	183	195	Gray Lava		☒
8	195	218	Brown Cinder & Lava		☒
8	218	240	Gray Lava		☒
8	240	251	Brown Lava, Cinder w/ Clay		☒
8	251	266	Gray Lava		☒
8	266	271	Brown Lava & Cinder		☒
8	271	278	Gray Lava		☒
8	278	285	Brown Lava & Cinder		☒
8	285	292	Gray Lava		☒

Page: 1 of 2

Completed Depth: 524

(Measurable)

Date: Started 7-22-99

Completed 7-27-99

13. DRILLER'S CERTIFICATION

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

Firm Name Hiddleston & Son, Inc.

Firm No. 35

Firm Official Ken Koch

Date 7-28-99

Supervisor or Operator _____

(Sign once if Firm Official & Operator)

Date _____

AUG 03 1999

Department of Water Resources

IDAHO DEPARTMENT OF WATER RESOURCES WELL DRILLER'S REPORT

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

61-99-W-0040-001

1. **DRILLING PERMIT NO.** _____
Other IDWR No. D0009824 Hole# MW-13

2. **OWNER:**
Name Idaho Waste Systems-Pacific
Address P.O. Box 1386
City Mtn Home State ID Zip 83647

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

W	E	Twp. <u>2</u> North ☐ or South ☒
		Rge. <u>5</u> East ☒ or West ☐
		Sec. <u>18</u> 1/4 SE 1/4 SE 1/4
		10 acres 40 acres 160 acres

Gov't lot _____ County Elmore

Lat: _____ Long: _____

Address of Well Site Simco Rd.

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

Lt. _____ Blk. _____ Sub. Name _____

4. USE:

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

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

X New Well ☐ Modify ☐ Abandonment ☐ Other

6. DRILL METHOD

X Air Rotary ☐ Cable ☐ Mud Rotary ☐ Other

7. SEALING PROCEDURES

SEAL/FILTER PACK		AMOUNT		METHOD
Material	From	To	Sacks or Pounds	
Bentonite	0	18	700 lbs	Overbore
Bentonite	+2	466	8000 lbs	Overbore
Sand 10-20	-466	524	1500 lbs	Overbore

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

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

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
8.625	+2	71	.250	Steel	X		X	
4.5	+2	504	Sch40	PVC		X		X

Length of Headpipe 504 Length of Tailpipe N/A

9. PERFORATIONS/SCREENS

☐ Perforations Method _____
X Screens Screen Type Johnson

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
504	524	.010		4	SS		

10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

_____ ft. below ground
Depth flow encountered

Artesian Pressure _____ lb
Describe access port or control

devices: _____

11. WELL TESTS:

☐ Pump ☐ Bailer ☐ Air ☐ Flowing Artesian

Yield gal/min.	Drawdown	Pumping Level	Time

Water Temp. _____ Bottom hole temp. _____

Water Quality test or comments: _____

Depth first Water Encountered _____

12. LITHOLOGIC LOG: (Describe repairs or abandonment)

053614

Water

Bore Dia	From	To	Remarks: Lithology, Water Quality & Temp.	Y	N
8	292	302	Brown Cinder w/ Clay		X
8	302	315	Gray Lava & Cinder		X
8	315	321	Brown Cinder w/ Clay		X
8	321	339	Gray Lava		X
8	339	352	Brown Cinder & Lava w/ Clay		X
8	352	378	Gray Lava w/ Clay		X
8	378	401	Brown Lava & Cinder w/ Clay		X
8	401	476	Gray Lava		X
8	476	482	Brown Cinder w/ Clay		X
8	482	486	Gray Lava		X
8	486	489	Brown Lava & Cinder		X
8	489	520	Gray Lava		X
8	520	523	Tan Clay-Some Water Talc		X
8	523	524	Sand & Gravel	X	

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AUG 03 1999 JUL 30 1999

Department of Water Resources WATER RESOURCES
WESTERN REGION

MICROFILMED

Page 2 of 2 047 13 1999

Completed Depth: 524 (Measurable)

Date: Started 7-22-99 Completed 7-27-99

13. DRILLER'S CERTIFICATION

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

Firm Name Hiddleston & Son, Inc.

Firm No. 35

Firm Official _____ Date _____

Supervisor or Operator _____ Date _____

(Sign once if Firm Official & Operator)

IDAHO DEPARTMENT OF WATER RESOURCES WELL DRILLER'S REPORT

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

1. DRILLING PERMIT NO. 61-99-W-0039-001
Other IDWR No. D0009823 Hole# MW-6
2. OWNER:
Name Idaho Waste Systems, Inc.-Pacific
Address P.O. Box 1386
City Mtn Home State ID Zip 83647
3. LOCATION OF WELL by legal description:
Sketch map location must agree with written location

W	E	S	N	Twp. <u>2</u> North ☐ or South ☒
				Rgc. <u>5</u> East ☒ or West ☐
				Sec. <u>18</u> 1/4 NE 1/4 NE 1/4
				10 acres 40 acres 160 acres

Gov't lot _____ County Elmore
Lat: _____ Long: _____
Address of Well Site Simco Rd
City Mtn Home

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

Lt. _____ Blk. _____ Sub. Name _____

4. USE:

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

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

☒ New Well ☐ Modify ☐ Abandonment ☐ Other _____

6. DRILL METHOD

☒ Air Rotary ☐ Cable ☐ Mud Rotary ☐ Other _____

7. SEALING PROCEDURES

SEAL/FILTER PACK		AMOUNT		METHOD
Material	From	To	Sacks or Pounds	
Bentonite	0	18	700 lbs	Overbore
Bentonite	+2	465	8200 lbs	Overbore
Sand 10-20	465	518	1300 lbs	Overbore

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

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

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
5.625	+2	68	250	Steel	☒ X	☐	☒ X	☐
4"	+2	498	Sch 40	PVC	☐	☒ X	☐	☒ X

Length of Headpipe 495 Length of Tailpipe N/A

9. PERFORATIONS/SCREENS

☐ Perforations Method _____
☒ Screens Screen Type Johnsons

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
498	598	.010		4"	SS	☐	☒ X
						☐	☐
						☐	☐

10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

474 ft below ground
Depth flow encountered _____

Artesian Pressure _____ lb
Describe access port or location _____

devices: _____

11. WELL TESTS:

Yield gal/min	Drawdown	Pumping Level	Time

Water Temp. _____ Bottom hole temp. _____

Water Quality test or comments: _____

Depth first Water Encountered _____

12. LITHOLOGIC LOG: (Describe repairs or abandonment)

Water	Bore Dia	From	To	Remarks: Lithology, Water Quality & Temp.	Y	N
	12	0	4	Soil		☒ X
	12	4	17	Sand, Gravel, & Clay		☒ X
	12-8	17	22	Clay		☒ X
	8	22	43	Clay, Sand, & Gravel		☒ X
	8	43	48	Clay		☒ X
	8	48	67	Sand, Gravel, & Some Clay		☒ X
	8	67	68	Clay & Lava		☒ X
	8	68	101	Gray Lava		☒ X
	8	101	135	Brown Cinder		☒ X
	8	135	161	Gray Lava		☒ X
	8	161	168	Brown Cinder		☒ X
	8	168	185	Gray Lava		☒ X
	8	185	209	Brown Cinder & Lava		☒ X
	8	209	217	Gray & Brown Lava & Cinder		☒ X
	8	217	225	Gray Lava		☒ X
	8	225	228	Brown Lava		☒ X
	8	228	230	Gray Lava		☒ X
	8	230	246	Brown Lava & Cinder		☒ X
	8	246	250	Gray Lava		☒ X
	8	250	254	Brown Lava & Clay		☒ X
	8	254	283	Gray Lava		☒ X
	8	283	290	Brown Cinder		☒ X
	8	290	302	Gray Lava & Cinder		☒ X
	8	302	305	Brown Cinder		☒ X
	8	305	320	Gray & Brown Cinder		☒ X
	8	320	329	Brown Cinder & Lava		☒ X
	8	329	334	Gray Lava		☒ X
	8	334	343	Brown Lava & Cinder		☒ X
	8	343	350	Gray Lava		☒ X

Page: 1 of 2

Completed Depth: 518 (Measurable)

Date: Started 7-14-99 Completed 7-14-99

13. DRILLER'S CERTIFICATION

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

Firm Name Hiddleston & Son, Inc.

Firm No. 35

Firm Official Ken Koch

Date 7-26-99

Supervisor or Operator _____

Date _____

(Sign once if Firm Official & Operator)

JUL 27 1999

JUL 29 1999

WATER RESOURCES
WESTERN REGION

Department of _____

REPORT OF WELL DRILLER
State of Idaho

RECEIVED

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

WELL OWNER:

Name Harold Parnell

Address _____

Owner's Permit No. _____

NATURE OF WORK (check): Replacement well ☐

New well ☐ Deepened ☒ Abandoned ☐

Water is to be used for: _____

METHOD OF CONSTRUCTION: Rotary ☐ Cable ☒

Dug ☐ Other _____

(explain)

CASING SCHEDULE: Threaded _____ Welded _____

"Diam. from _____ ft. to _____ ft.

"Diam. from _____ ft. to _____ ft.

"Diam. from _____ ft. to _____ ft.

"Diam. from _____ ft. to _____ ft.

Thickness of casing: _____ Material: _____

Steel ☐ concrete ☐ wood ☐ other ☐

(explain)

PERFORATED? Yes ☐ No ☐ Type of perforator used: _____

Size of perforations: _____ " by _____ "

perforations from _____ ft. to _____ ft.

perforations from _____ ft. to _____ ft.

perforations from _____ ft. to _____ ft.

perforations from _____ ft. to _____ ft.

WAS SCREEN INSTALLED? Yes ☐ No ☐

Manufacturer's name _____

Type _____ Model No. _____

Diam. Slot size Set from _____ ft. to _____ ft.

Diam. Slot size Set from _____ ft. to _____ ft.

CONSTRUCTION: Well gravel packed? Yes ☐

No ☐ size of gravel _____ Gravel

placed from _____ ft. to _____ ft. Surface seal

provided? Yes ☐ No ☐ To what depth?

ft. Material used in seal: _____

Did any strata contain unusable water? Yes ☐

No ☐ Type of water: _____

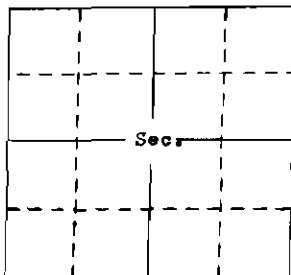
Depth of strata _____ ft. Method of sealing

strata off: _____

Surface casing used? Yes ☐ No ☐

Cemented in place? Yes ☐ No ☐

Locate well in section.



LOCATION OF WELL: County ELMORE
NE 1/4 NE 1/4 Sec. 18 T. 1 N. R. 5 E.

Use other side for additional remarks

Size of drilled hole: 8 in Total
depth of well: 1045 ft Standing water
level below ground: 415 Temp.
Fahr. _____ Test delivery: _____ gpm
or _____ cfs Pump? ☐ Bail ☐
Size of pump and motor used to make test: _____

Length of time of test: _____ Hrs. Min.

Drawdown: _____ ft. Artesian pressure: ft.

above land surface _____ Dive flow _____ cfs

or _____ gpm. Shutoff pressure: _____

Controlled by: Valve ☐ Cap ☐ Plug ☐

No control ☐ Does well leak around casing?

Yes ☐ No ☐

DEPTH MATERIAL 104256 WATER

FROM TO FEET FEET YES OR NO

155 200 Grey lava

200 220 Black lava

220 250 Brown sandy clay

250 265 Brown lava

265 300 Brown sandy clay

300 360 Brown sandy lava

360 380 Reddish Brown lava

380 410 Brown lava

410 430 Black sandy lava

430 450 Reddish Brown lava

450 455 Grey lava

455 500 Brown clay

500 512 Brown, black, loose lava

512 555 Brown sandy clay, coarse

555 575 Black, Phos. sandy

575 583 Brown clay

583 605 Coarse brown, black

605 610 Large broken

610 625 Red sandstone

625 625 Black sandstone

Work started: 7/2/66
Work finished: 8/10/66
Well Driller's Statement: This well was drilled under my supervision and this report is true to the best of my knowledge.
Name: George Easley
Address: P.O. Box 347 - Hamlet, Idaho
Signed by: _____
License No. 49 Date: _____

USGS

IDAHO DEPARTMENT OF WATER RESOURCES

WELL DRILLER'S REPORT 064233

Use Typewriter or Ballpoint Pen

Corrected log

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

1. DRILLING PERMIT NO. 61 - 95 - W - 0051 - 001
Other IDWR No. _____

2. OWNER:
Name IDAHO WASTE SYSTEMS MW-3
Address HC 79 BOX 2230
City OREANA State ID Zip 83650

3. LOCATION OF WELL by legal description:

Sketch map location must agree with written location.

N
W E S
Twp. 2 North ☐ or South ☒
Rge. 5 East ☒ or West ☐
Sec. 18 NW 1/4 NW 1/4 1/4
Gov't Lot _____ County ELMORE
Lat: _____ Long: _____
Address of Well Site SIMCO RD.
City MTN HOME
(Give at least name of road - Distance to Road or Landmark)

Lt. _____ Blk. _____ Sub. Name _____

4. USE:

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

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

☒ New Well ☐ Modify ☐ Abandonment ☐ Other _____

6. DRILL METHOD

☒ Air Rotary ☐ Cable ☐ Mud Rotary ☐ Other _____

7. SEALING PROCEDURES

SEAL/FILTER PACK			AMOUNT	METHOD
Material	From	To	Sacks or Pounds	
BENTONITE	0	100	8 sack	OVERBORE

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

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

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
8 5/8	+2	98	250	STEEL	☒	☐	☒	☐
4 1/2	+2	453	sh40	PVC	☐	☒	☐	☒
					☐	☐	☐	☐

Length of Headpipe 453 Length of Tailpipe 5'

9. PERFORATIONS/SCREENS

☐ Perforations Method _____
☒ Screens Screen Type _____

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
453	473	.010	V-WIRE	4.5	SS	☐	☒
						☐	☐
						☐	☐

10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

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

11. WELL TESTS:

☐ Pump ☐ Bailer ☒ Air ☐ Flowing Artesian

Yield gal./min.	Drawdown	Pumping Level	Time

Water Temp. _____ Bottom hole temp. _____

Water Quality test or comments: _____

Depth first Water Encountered _____

12. LITHOLOGIC LOG: (Describe repairs or abandonment)

Bore Dia.	From	To	Remarks: Lithology, Water Quality & Temperature	Water
				Y N
10	0	8	soil & clay	
10	8	10	sand	
10	10	22	sandy clay	
10	22	46	clay	
10	46	56	gravel	
10	56	60	sandy clay	
10	60	67	clay & sand & gravel	
10	67	75	sand & gravel	
10	75	84	clay	
10	84	98	sand gravel & clay	
8	98	118	gray basalt	
8	118	351	broken gray basalt	
			no return	
8	351	397	gray basalt	
8	397	402	gray & brown cinder	
8	402	416	brown basalt	
8	416	429	gray basalt	
8	429	437	brown lava & cinder	
8	437	462	gray basalt	
8	462	482	brown basalt & cinder	
8	482	493	gray basalt	
8	493	496	brown basalt & cinder	
8	496	500	gray basalt	

RECEIVED

RECEIVED

JAN 29 1996

JAN 24 1996

Department of Water Resources

WATER RESOURCES
WESTERN REGION

Completed Depth 478' (Measurable)

Date: Started 9-05-95 Completed 9-07-95

13. DRILLER'S CERTIFICATION

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

Firm Name HIDDLESTON & SON, INC. Firm No. 35

Firm Official *Ken Raab* Date 9-11-95

and _____

Supervisor or Operator _____ Date _____

(Sign once if Firm Official & Operator)

FORWARD WHITE COPY TO WATER RESOURCES

FORWARD WHITE COPY TO WATER RESOURCES

Form 238-7
6/69

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

USE TYPEWRITER OR
BALLPOINT PEN

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

1. WELL OWNER Name <u>James & Darla Underwood</u> <u>HC34, Mayfield Stade</u> <u>Boise, ID 83726</u> Drilling Permit No. <u>63-219-127-100</u> Owner's Permit No. _____	7. WATER LEVEL *4 Depth Reference to top of casing. Static water level <u>312.12</u> feet below land surface Flowing? ☐ Yes ☒ No G.P.M. flow _____ Artesian closed-in pressure _____ p.s.i. Controlled by: ☐ Valve ☐ Cap ☐ Plug Temperature <u>71</u> OF. Quality <u>Excellent</u> Describe artesian or temperature zones below _____																																																																											
2. NATURE OF WORK ☐ New well ☒ Deepened ☐ Replacement ☐ Well diameter increase ☐ Abandoned (describe abandonment procedures such as materials, plug depths, etc. in lithologic log)	8. WELL TEST DATA ☒ Pump ☐ Bailer ☐ Air ☐ Other installed. Discharge G.P.M. _____ Pumping Level _____ Hours Pumped _____																																																																											
3. PROPOSED USE ☒ Domestic ☐ Irrigation ☐ Test ☐ Municipal ☐ Industrial ☐ Stock ☐ Waste Disposal or Injection ☐ Other _____ (specify type)	9. LITHOLOGIC LOG * = Depth referenced to top of 6 inch casing. <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Bore Diam.</th> <th>Depth From</th> <th>To</th> <th>Material</th> <th>Water Yes No</th> </tr> </thead> <tbody> <tr> <td></td> <td>175'</td> <td>175'</td> <td>See original log by Bill Doty Drilled</td> <td></td> </tr> <tr> <td>5"</td> <td>175'</td> <td>506'</td> <td>Dusty, poorly sorted fine sand & fines on down to silt size</td> <td>x</td> </tr> <tr> <td></td> <td>506'</td> <td>507'</td> <td>Streak of clay brown to grey</td> <td>x</td> </tr> <tr> <td></td> <td>507'</td> <td>513'</td> <td>Sand, fine, poorly sorted, lighter colored, 1/2 Grey cast</td> <td>x</td> </tr> <tr> <td></td> <td>513'</td> <td>520'</td> <td>Sand & Gravel, Bank Run, light</td> <td>x</td> </tr> <tr> <td></td> <td>520'</td> <td>530'</td> <td>Silty Sand</td> <td>x</td> </tr> <tr> <td></td> <td>530'</td> <td>545'</td> <td>light Sand & Gravel</td> <td>x</td> </tr> <tr> <td></td> <td>545'</td> <td>549'</td> <td>Rock, Basalt? Sandstone? Cemented</td> <td></td> </tr> <tr> <td></td> <td>549'</td> <td>550'</td> <td>Gravel? Boulder?</td> <td></td> </tr> <tr> <td></td> <td>550'</td> <td>551'</td> <td>Silt-clay, light grey</td> <td>x</td> </tr> <tr> <td></td> <td>551'</td> <td>552'</td> <td>Sand</td> <td>x</td> </tr> <tr> <td></td> <td>552'</td> <td>553'</td> <td>Concretion, clay binder</td> <td>x</td> </tr> <tr> <td></td> <td>553'</td> <td>554'</td> <td>Sand</td> <td>x</td> </tr> <tr> <td></td> <td>554'</td> <td>555'</td> <td>Bedded hard at 551', caved back to 550' and eventually on back to liner at 516'.</td> <td></td> </tr> </tbody> </table>	Bore Diam.	Depth From	To	Material	Water Yes No		175'	175'	See original log by Bill Doty Drilled		5"	175'	506'	Dusty, poorly sorted fine sand & fines on down to silt size	x		506'	507'	Streak of clay brown to grey	x		507'	513'	Sand, fine, poorly sorted, lighter colored, 1/2 Grey cast	x		513'	520'	Sand & Gravel, Bank Run, light	x		520'	530'	Silty Sand	x		530'	545'	light Sand & Gravel	x		545'	549'	Rock, Basalt? Sandstone? Cemented			549'	550'	Gravel? Boulder?			550'	551'	Silt-clay, light grey	x		551'	552'	Sand	x		552'	553'	Concretion, clay binder	x		553'	554'	Sand	x		554'	555'	Bedded hard at 551', caved back to 550' and eventually on back to liner at 516'.	
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4. METHOD DRILLED ☐ Rotary ☐ Air ☐ Hydraulic ☐ Reverse rotary ☒ Cable ☐ Dug ☐ Other _____	10. Work started <u>March 25, 1991</u> Finished <u>May 7, 1991</u>																																																																											
5. WELL CONSTRUCTION * = Depth referenced to top of 6 inch casing. Casing schedule: ☒ Steel ☐ Concrete ☐ Other _____ <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Thickness inches</th> <th>Diameter inches</th> <th>From feet</th> <th>To feet</th> </tr> </thead> <tbody> <tr> <td>(See original log) 5 9/16</td> <td>4 1/2</td> <td>413.4</td> <td>506.2</td> </tr> <tr> <td>0.253</td> <td>4 1/2</td> <td>475.0</td> <td>518.3</td> </tr> </tbody> </table> Was casing drive shoe used? ☐ Yes ☒ No - liners beller Was a packer or seal used? ☐ Yes ☒ No top & bottom Perforated? ☐ Yes ☒ No How perforated? ☐ Factory ☐ Knife ☐ Torch ☐ Gun Size of perforation _____ inches by _____ inches <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Number</th> <th>From feet</th> <th>To feet</th> </tr> </thead> <tbody> <tr> <td>_____ perforations</td> <td>_____ feet</td> <td>_____ feet</td> </tr> <tr> <td>_____ perforations</td> <td>_____ feet</td> <td>_____ feet</td> </tr> <tr> <td>_____ perforations</td> <td>_____ feet</td> <td>_____ feet</td> </tr> </tbody> </table> Well screen installed? ☐ Yes ☒ No Manufacturer's name _____ Type _____ Model No. _____ Diameter _____ Slot size _____ Set from _____ feet to _____ feet Diameter _____ Slot size _____ Set from _____ feet to _____ feet Gravel packed? ☐ Yes ☒ No ☐ Size of gravel _____ Placed from _____ feet to _____ feet Surface seal depth _____ Material used in seal: ☐ Cement grout ☐ Bentonite ☐ Puddling clay ☐ _____ Sealing procedure used: ☐ Slurry pit ☐ Temp. surface casing ☐ liners ☐ Overbore to seal depth Method of joining casing: ☐ Threaded ☒ Welded ☐ Solvent Weld ☐ Cemented between strata Describe access port <u>Remove bibles can for cation access.</u>	Thickness inches	Diameter inches	From feet	To feet	(See original log) 5 9/16	4 1/2	413.4	506.2	0.253	4 1/2	475.0	518.3	Number	From feet	To feet	_____ perforations	_____ feet	_____ feet	_____ perforations	_____ feet	_____ feet	_____ perforations	_____ feet	_____ feet	11. DRILLERS CERTIFICATION I/We certify that all minimum well construction standards were complied with at the time the rig was removed. Firm Name <u>Detention Co.</u> Firm No. <u>316</u> <u>2100 N. 20th S.</u> Address <u>Mountain Home, ID</u> Date <u>May 7, 1991</u> <u>83617-0610</u> Signed by (Firm Official) <u>Hugh Harden</u> and <u>Hugh Harden</u> (Operator) <u>Hugh Harden</u>																																																			
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9	10	11	12																																																																									

IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORTUse Typewriter
or
Ball Point Pen106 RECEIVED
NOV 19 19931. DRILLING PERMIT NO 63 93 - 8 - 869 - 0
Other IDWR No. 63-11382

2. OWNER:

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

3. LOCATION OF WELL by legal description:

Sketch map location must agree with written location.

N					
		X			
W					
S					

T. 01-N North ☐ or South ☐
E. 04-E East ☐ or West ☐
Sec. 27 1/4 SW 1/4 NE 1/4
Gov't Lot _____ County ELMORE

Address of Well Site INDIAN CR RD HC34 MAYFIELD STAGE

(Give at least Direction + Distance to Road or Landmark)

Lot No. 19 Block No. 1 Sub DANSKIN PROPERTIES

4. PROPOSED USE: DOMESTIC

☐ Domestic ☐ Municipal ☐ Monitor ☐ Irrigation
☐ Thermal ☐ Injection ☐ Other _____5. TYPE OF WORK NEW WELL☐ New Well ☐ Modify or Repair ☐ Replacement ☐ Abandonment6. DRILL METHOD REVERSE CIRCULATION☐ Mud Rotary ☐ Air Rotary ☐ Cable ☐ Other _____

7. SEALING PROCEDURES

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

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

8. CASING/LINER:

Diameter	From	To	Gauge	Casting	Liner	Steel	Plastic	Welded	Threaded
12"	43	420	.250			☒	☐	☒	☐
10"	460	480	.250			☐	☐	☐	☐

Final location of shoes _____

Top Packer or Headpipe _____ Bottom Tailpipe _____

9. PERFORATIONS/SCREENS

☐ Perforations☒ Screens

Method _____

Type HOUSTON Material STAINLESS STEEL

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

10. WELL TESTS: N/A

☐ Pump ☐ Bailor ☐ Air ☐ Flowing ☐ Artesian

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

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

By whom? _____

Water Quality (odor, etc.) _____

Bottom Hole Temperature _____

11. STATIC WATER LEVEL:

NA ft. below surface Depth artesian flow found _____Artesian pressure _____ lb. Describe access port WELL CAP

Describe Controlling Devices: _____

12. LITHOLOGIC LOG: (Describe repairs or abandonment)

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

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

13. DRILLER'S CERTIFICATION

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

Firm Name PETE COPE DRILLING Firm No. 213Firm Official [Signature] Date 10/29/93

and _____

Supervisor or Operator _____ Date 10/29/93

(Sign once if Firm Official & Operator)

FORWARD WHITE COPY TO WATER RESOURCES

30F3

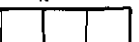
108847

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

2. OWNER:
Name DUNKIN PROPERTIES LTD
Address _____
City _____ State _____ Zip _____

3. LOCATION OF WELL by legal description:

Sketch map location must agree with written location.



T. 1 North ☒ or South ☐
 E. 4 East ☒ or West ☐
 Sec. 27 1/4 SW 1/4 NE 1/4
 Gov't Lat SE County Elmore

Address of Well Site _____

(Give at least Direction + Distance to Road or Landmark)

Lof No. _____ Block No. _____ Subd. Name _____

4. PROPOSED USE:

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

5. TYPE OF WORK

☐ New Well ☐ Modify or Repair ☐ Replacement ☐ Abandonment

6. DRILL METHOD

☐ Mud Rotary ☐ Air Rotary ☐ Cable ☐ Other _____

7. SEALING PROCEDURES

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

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

8. CASING/LINER:

Diameter	From	To	Gauge	Coating	Liner	Steel	Plastic	Welded	Threaded
						☐	☐	☐	☐
						☐	☐	☐	☐
						☐	☐	☐	☐
						☐	☐	☐	☐

Final location of shoes _____

Top Packer or Headpipe _____ Bottom Tailpipe _____

9. PERFORATIONS/SCREENS

☐ Perforations	Method	_____
☐ Screens	Type	_____
	Material	_____

From	To	Start Date	Stop Date	Start Time	Stop Time	Test Pipe Size	Coating	Liner
							☐	☐
							☐	☐
							☐	☐
							☐	☐

FEB 28 1994

10. WELL TESTS:

☐ Pump ☐ Bailer ☐ Air ☐ Flowing Artesian

Yield gal./min.	Drawdown	Pumping Depth	Time

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

By whom? _____

Water Quality (odor, etc.) _____

Bottom Hole Temperature _____

11. STATIC WATER LEVEL:

ft. below surface Depth artesian flow found _____

Artesian pressure _____ lb. Describe access port _____

Describe Controlling Devices: _____

12. LITHOLOGIC LOG: (Describe repairs or abandonment)

[illegible]

13. DRILLER'S CERTIFICATION

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

Firm Name _____ Firm No. _____

Firm Official _____ Date _____

Supervisor or Operator _____ Date _____

(Sign once if Firm Official & Operator)

FORWARD WHITE COPY TO WATER RESOURCES

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

1. WELL OWNER Name <u>Jim Underwood</u> Address <u>Mayfield, Idaho</u> Owner's Permit No. <u>63-85-C-0001-000</u>	7. WATER LEVEL Static water level <u>338'</u> feet below land surface. Flowing? ☐ Yes ☒ No G.P.M. flow _____ Artesian closed-in pressure _____ p.s.i. Controlled by: ☐ Valve ☐ Cap ☐ Plug Temperature _____ OF. Quality _____ <i>Describe artesian or temperature zones below</i>																																																														
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USE ADDITIONAL SHEETS IF NECESSARY - FORWARD THE WHITE COPY TO THE DEPARTMENT

USE TYPEWRITER OR
BALL POINT PEN

State of Idaho
Department of Water Administration
WELL DRILLER'S REPORT

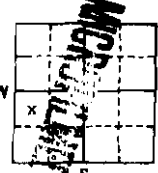
State law requires that this report be filed with the Director, Department of Water Administration within 30 days after the completion or abandonment of the well.

1. WELL OWNER Name <u>Carl Agenbroed</u> Address <u>620 13th Ave. So., Nampa, Idaho 83651</u> Owner's Permit No. _____		7. WATER LEVEL Static water level <u>6</u> feet below land surface Flowing? ☐ Yes ☐ No G.P.M. flow _____ Temperature _____ ° F. Quality _____ Artesian closed-in pressure _____ p.s.i. Controlled by ☐ Valve ☐ Cap ☐ Plug																																																																																																											
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USE ADDITIONAL SHEETS IF NECESSARY

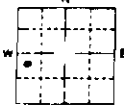
FORWARD THE WHITE COPY TO THE DEPARTMENT

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

1. WELL OWNER Name <u>Carl Agenbroad</u> <u>Hayfield Stage</u> Address <u>Boise, Idaho 83706</u> Owner's Permit No. _____	7. WATER LEVEL Static water level <u>77</u> feet below land surface. Flowing? ☐ Yes ☒ No G.P.M. flow _____ Artesian closed-in pressure _____ p.s.i. Controlled by: ☐ Valve ☐ Cap ☐ Plug Temperature _____ OF. Quality _____																																					
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STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORTUSE TYPEWRITER OR
BALLPOINT PENState law requires that this report be filed with the Director, Department of Water Resources
within 30 days after the completion or abandonment of the well.

1. WELL OWNER Name <u>Neil Helnick</u> Address <u>HC 34 Mayfield, Boise, ID 83706</u> Drilling Permit No. <u>61-92-W-044</u> Water Right Permit No. _____		7. WATER LEVEL Static water level <u>340</u> feet below land surface. Flowing? ☐ Yes ☒ No G.P.M. flow _____ Artesian closed-in pressure _____ p.s.i. Controlled by: ☐ Valve ☐ Cap ☐ Plug Temperature _____ °F. Quality _____ Describe artesian or temperature zones below.																																																																																																																			
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5. WELL CONSTRUCTION Casing schedule: ☒ Steel ☐ Concrete ☐ Other <u>EVC</u> Thickness Diameter From To <u>.250</u> inches <u>6 5/8</u> inches + <u>3</u> feet <u>404</u> feet Sch. <u>40</u> inches <u>4</u> inches <u>240</u> feet <u>400</u> feet _____ inches _____ inches _____ feet _____ feet Was casing drive shoe used? ☒ Yes ☐ No Was a packer or seal used? ☐ Yes ☒ No Perforated? ☐ Yes ☒ No How perforated? ☐ Factory ☐ Knife ☐ Torch ☐ Gun Size of perforation? _____ inches by _____ inches Number From To _____ perforations _____ feet _____ feet _____ perforations _____ feet _____ feet _____ perforations _____ feet _____ feet Well screen installed? ☒ Yes ☐ No Manufacturer <u>Johnson</u> Type <u>PVC</u> Top Packer or Headpipe <u>240</u> Bottom of Tailpipe <u>510</u> Diameter <u>4"</u> Slot size <u>.010</u> Set from <u>410</u> feet to <u>440</u> feet Diameter <u>4"</u> Slot size <u>.020</u> Set from <u>440</u> feet to <u>510</u> feet Gravel packed? ☐ Yes ☐ No Size of gravel _____ Placed from _____ feet to _____ feet Surface seal depth <u>38</u> Material used in seal: ☐ Cement grout ☒ Bentonite ☐ Puddling clay Sealing procedure used: ☐ Slurry pit ☐ Temp. surface casing ☒ Overbore to seal depth Method of joining casing: <u>EVC</u> ☐ Threaded ☒ Welded ☐ Solvent Weld ☐ Cemented between strata Describe access port <u>Top of 6"</u>		10. Work started <u>7-29-92</u> finished <u>8-7-92</u>																																																																																																																			
6. LOCATION OF WELL Sketch map location must agree with written location.  Subdivision Name _____ Lot No. _____ Block No. _____ County <u>Blaine</u> Address of Well Site <u>Indian Creek or Mayfield Rd.</u> (give at least name of road) NW 1/4 SW 1/4 Sec. <u>27</u> R. <u>4</u> E ☒ or W ☐		11. DRILLER'S CERTIFICATION I/We certify that all minimum well construction standards were complied with at the time the rig was removed. Ricciceston & Son, Firm Name _____ INC. Firm No. <u>35</u> Rt. 2, Box 610-D Address Mtn Home, ID 83647 Date <u>8-10-92</u> Signed by Drilling Supervisor _____ and _____ (Operator) <u>John H. Smith</u> (If different than the Drilling Supervisor)																																																																																																																			

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

IDAHO DEPARTMENT OF WATER RESOURCES WELL DRILLER'S REPORT

8444163

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

1. WELL TAG NO. D 0046985

DRILLING PERMIT NO. _____

Other IDWR No. _____

2. OWNER:

Name Jeff McDevitt

Address 333 Amarillo St

City Engle State CO Zip 83616

3. LOCATION OF WELL by legal description:

Sketch map location must agree with written location.

North X or South
East X or West
Rge. 4 East X or West
Sec. 22 NW 1/4 NW 1/4 SW 1/4
Gov't Lot _____ County Elmore
Lat: _____ Long: _____
Address of Well Site 155 Indian Creek Rd
City Mayfield, ID

LI. 8 Bk. _____ Sub. Name Water Asset Split

4. USE:

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

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

☒ New Well ☐ Modify ☐ Abandonment ☐ Other _____

6. DRILL METHOD

☐ Air Rotary ☒ Cable ☐ Mud Rotary ☐ Other _____

7. SEALING PROCEDURES

SEAL FILTER PACK	AMOUNT	METHOD
Material	From To	Sacks or Pounds
<u>Shrinkwrap chips</u>	<u>0</u> <u>19</u>	<u>1200</u> <u>16</u>
		<u>dry pour</u>

Was drive shoe used? ☒ N Shoe Depth(s) 19

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

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
<u>6</u>	<u>4 1/2</u>	<u>19</u>	<u>260</u>	<u>steel</u>	☒	☒	☒	☒
<u>5</u>	<u>25</u>	<u>30</u>	<u>252</u>	<u>steel</u>	☐	☒	☒	☐

Length of Headpipe 2 Length of Tailpipe 5

9. PERFORATIONS/SCREENS

Perforations _____ Method _____
Screens ☒ Screen Type Johnson

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
<u>20</u>	<u>25</u>	<u>20</u>	<u> </u>	<u>5</u>	<u>stainless</u>	☐	☒

10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

8 ft below ground Artesian pressure _____ lb.

Depth flow encountered _____ ft. Describe access port or control devices: well cap - top of casing

11. WELL TESTS:

Yield gal min	Drawdown	Pumping Level	Time
<u>18</u>	<u>8'</u>	<u>16</u>	<u>3-hour</u>

Water Temp. _____

Bottom hole temp. _____

Water Quality test or comments: _____

Depth first Water Encounter 21

12. LITHOLOGIC LOG: (Describe repairs or abandonment)

Bore Dia	From	To	Remarks: Lithology, Water Quality & Temperature	Y	N
<u>10</u>	<u>0</u>	<u>4</u>	<u>black sandy top soil</u>	☐	☒
<u>10</u>	<u>4</u>	<u>16</u>	<u>black silty clay</u>	☐	☒
<u>10</u>	<u>16</u>	<u>21</u>	<u>brown clay</u>	☐	☒
<u>6</u>	<u>21</u>	<u>24</u>	<u>coarse sand</u>	☒	☐
<u>6</u>	<u>24</u>	<u>30</u>	<u>brown sandy clay</u>	☒	☐

RECEIVED

OCT 19 2006

WATER RESOURCES
WESTERN REGION

Completed Depth 30 (Measurable)

Date: Started 9-18-06 Completed 10-2-06

13. DRILLER'S CERTIFICATION

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

Company Name Deane Well Drilling Firm No 399

Firm Official [Signature] Date 10-18-06

and Driller or Operator _____ Date _____
(Sign once if Firm Official & Operator)

FORWARD WHITE COPY TO WATER RESOURCES

Date 8-2

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

1. WELL OWNER Name <u>Ken Agenbroad</u> Address <u>Mayfield Stage, Boise, Idaho 83706</u> Owner's Permit No. _____	7. WATER LEVEL Static water level <u>390</u> feet below land surface. Flowing? ☐ Yes ☐ No G.P.M. flow _____ Artesian closed-in pressure _____ p.s.i. Controlled by: ☐ Valve ☐ Cap ☐ Plug Temperature _____ °F. Quality _____																																																																																																																																																																																				
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USE ADDITIONAL SHEETS IF NECESSARY - FORWARD THE WHITE COPY TO THE DEPARTMENT

101 115 C 20

WELL DRILLER'S REPORT

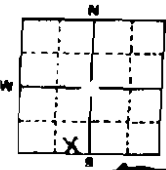
State law requires that this report be filed with the Director, Department of Water Resources within 30 days after the completion or abandonment of the well.

1. WELL OWNER Name <u>Ken Agenbroed</u> Address <u>Mayfield Stage, Boise, Idaho 83706</u> Owner's Permit No. _____	7. WATER LEVEL Static water level <u> </u> feet below land surface. Flowing? ☐ Yes ☒ No G.P.M. flow _____ Artesian closed-in pressure _____ p.s.i. Controlled by: ☐ Valve ☐ Cap ☐ Plug Temperature _____ of. Quality _____																																																				
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USE ADDITIONAL SHEETS IF NECESSARY. - FORWARD THE WHITE COPY TO THE DEPARTMENT

WELL DRILLER'S REPORT

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

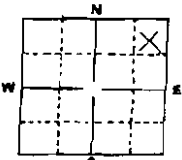
1. WELL OWNER Name <u>Gregory Earl Bush</u> Address <u>Middlebury</u> Owner's Permit No. <u>63-8720</u>		7. WATER LEVEL Static water level <u>160</u> feet below land surface Flowing? ☐ Yes ☐ No G.P.M. flow _____ Temperature _____ ° F. Quality _____ Artesian closed-in pressure _____ p.s.i. Controlled by ☐ Valve ☒ Cap ☐ Plug	
2. NATURE OF WORK ☒ New well ☐ Deepened ☐ Replacement ☐ Abandoned (Describe method of abandoning) _____		8. WELL TEST DATA ☐ Pump ☒ Bailor ☐ Other Discharge G.P.M. _____ Draw Down _____ Hours Pumped _____	
3. PROPOSED USE ☐ Domestic ☐ Irrigation ☐ Test ☐ Other (Specify type) _____ ☐ Municipal ☐ Industrial ☐ Stock ☐ Waste Disposal or Injection		9. LITHOLOGIC LOG <u>106023</u> Hole Diam. _____ Depth _____ Material _____ Water Yes/No _____ 8" 0 3 3" soil 3 56 sand + clay 56 69 coarse sand 69 103 sand 103 200 coarse sand 200 228 sand + clay 228 245 coarse sand 245 265 fine sand 265 305 sand + clay 305 340 coarse sand 340 375 coarse sand + clay	
4. METHOD DRILLED ☒ Cable ☐ Rotary ☐ Dug ☐ Other		 Subdivision Name _____ Lot No. _____ Block No. _____ County <u>Ada</u> <u>SW 1/4 Sec 22 T. 1 N. R. 4 E. 10</u>	
5. WELL CONSTRUCTION Diameter of hole <u>8</u> inches Total depth <u>375</u> feet Casing schedule: ☐ Steel ☐ Concrete Thickness _____ Diameter _____ From _____ To _____ <u>250</u> inches <u>8</u> inches <u>1</u> feet <u>375</u> feet _____ inches _____ inches _____ feet _____ feet _____ inches _____ inches _____ feet _____ feet _____ inches _____ inches _____ feet _____ feet Was casing drive shoe used? ☒ Yes ☐ No Was a packer or seal used? ☐ Yes ☒ No Perforated? ☒ Yes ☐ No How perforated? ☐ Factory ☒ Knife ☐ Torch Size of perforation <u>1/4</u> inches by <u>2</u> inches Number _____ From _____ To _____ <u>200</u> perforations <u>103</u> feet <u>200</u> feet <u>80</u> perforations <u>228</u> feet <u>250</u> feet _____ perforations _____ feet _____ feet Well screen installed? ☐ Yes ☒ No Manufacturer's name _____ Type _____ Model No. _____ Diameter _____ Slot size _____ Set from _____ feet to _____ feet Diameter _____ Slot size _____ Set from _____ feet to _____ feet Gravel packed? ☐ Yes ☐ No Size of gravel _____ Placed from _____ feet to _____ feet Surface seal depth <u>20'</u> Material used in seal ☐ Cement grout ☒ Pudding clay ☐ Well cuttings Sealing procedure used ☐ Sherry pit ☐ Temporary surface casing ☐ Overbars to seal depth			
6. LOCATION OF WELL Sketch map location must agree with written location. <u>63</u>			
10. Work started <u>2/14/78</u> finished <u>5/17/78</u>			
11. DRILLER'S CERTIFICATION Firm Name <u>Middlebury Pump & Drilling Co. Inc.</u> Firm No. <u>2262</u> Address <u>Middlebury, Id.</u> Date <u>12/1/78</u> Signed by (Firm Official) <u>Harold Whelan</u> and (Operator) <u>Harold Whelan</u>			

USE TYPEWRITER OR
BALL POINT PEN

State of Idaho
Department of Water Administration

WELL DRILLER'S REPORT

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

1. WELL OWNER Name <u>STUCKS</u> Address <u>1000 1/2 St. N. Boise, Idaho</u> Owner's Permit No. <u>Richard</u>		7. WATER LEVEL Static water level <u>628</u> feet below land surface Flowing? ☐ Yes ☐ No G.P.M. flow _____ Temperature _____ ° F. Quality _____ Artesian closed-in pressure _____ p.s.i. Controlled by ☐ Valve ☐ Cap ☐ Plug	
2. NATURE OF WORK ☒ New well ☐ Deepened ☐ Replacement ☐ Abandoned (describe method of abandoning)		8. WELL TEST DATA ☐ Pump ☒ Boiler ☐ Other Discharge G.P.M. <u>45</u> Draw Down <u>10'</u> Hours Pumped <u>48</u>	
3. PROPOSED USE ☒ Domestic ☐ Irrigation ☐ Test ☐ Municipal ☐ Industrial ☐ Stock		9. LITHOLOGIC LOG 108031 Hole Diam. Depth From To Material Water Yes No <u>10 0 115 Rock and Gravel</u> ✓ <u>8 115 200 SAND</u> ✓ <u>8 200 415 GRAVEL SAND</u> ✓ <u>8 415 600 GRAVEL / SAND</u> ✓ <u>8 600 690 SAND</u> ✓ <u>8 690 711 SAND</u> ✓	
4. METHOD DRILLED ☒ Cable ☐ Rotary ☐ Dug ☐ Other			
5. WELL CONSTRUCTION Diameter of hole <u>8</u> inches Total depth <u>711</u> feet Casing schedule: ☒ Steel ☐ Concrete Thickness Diameter From To <u>1/4</u> inches _____ inches <u>0</u> feet <u>711</u> feet _____ inches _____ inches _____ feet _____ feet _____ inches _____ inches _____ feet _____ feet _____ inches _____ inches _____ feet _____ feet _____ inches _____ inches _____ feet _____ feet Was a packer or seal used? ☐ Yes ☒ No Perforated? ☐ Yes ☒ No How perforated? ☐ Factory ☐ Knife ☐ Torch Size of perforation _____ inches by _____ inches Number From To _____ perforations _____ feet _____ feet _____ perforations _____ feet _____ feet _____ perforations _____ feet _____ feet Well screen installed? ☐ Yes ☒ No Manufacturer's name _____ Type _____ Model No. _____ Diameter _____ Slot size _____ Set from _____ feet to _____ feet Diameter _____ Slot size _____ Set from _____ feet to _____ feet Gravel packed? ☐ Yes ☒ No Size of gravel _____ Placed from _____ feet to _____ feet Surface seal? ☐ Yes ☐ No To what depth <u>18'</u> feet Material used in seal ☐ Cement grout ☒ Puddling clay			
6. LOCATION OF WELL Sketch map location must agree with written location.  County <u>ADA</u> <u>NE 1/4 NE 1/4 Sec. 32 T. 1 N. R. 4 E. 1/4</u>		10. Work started _____ finished _____	
		11. DRILLER'S CERTIFICATION This well was drilled under my supervision and this report is true to the best of my knowledge. <u>Gene H. Smith</u> 65 Driller's or Firm's Name Number <u>1514 Longmont</u> Address Signed By <u>for Russell Co. Sept 3-72</u> Date	

USE ADDITIONAL SHEETS IF NECESSARY

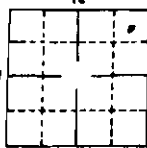
FORWARD THE WHITE, BLUE, AND PINK COPIES TO THE DEPARTMENT

123

Date: 10/9/96 Time:9:24 AM

WELL DRILLER'S REPORT

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

1. WELL OWNER Name <u>Boise Stage 8 Top</u> Address _____ Owner's Permit No. _____		7. WATER LEVEL Static water level <u>34</u> feet below land surface. Flowing? ☐ Yes ☒ No G.P.M. flow _____ Artesian closed-in pressure _____ p.s.i. Controlled by: ☐ Valve ☐ Cap ☐ Plug Temperature _____ °F. Quality _____ Describe artesian or temperature zones below.																																																																																															
2. NATURE OF WORK ☒ New well ☐ Deepened ☐ Replacement ☐ Abandoned (describe abandonment procedures such as materials, plug depths, etc. in lithologic log)		8. WELL TEST DATA ☐ Pump ☐ Bailor ☒ Air ☐ Other _____																																																																																															
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	<u>84</u>	<u>88</u>	<u>Brown cinder + clay</u>																																																																																														
	<u>88</u>	<u>89</u>	<u>Red clay</u>																																																																																														
	<u>89</u>	<u>92</u>	<u>Sand</u>																																																																																														
5. WELL CONSTRUCTION Casing schedule: ☒ Steel ☐ Concrete ☐ Other _____ Thickness _____ Diameter _____ From _____ To _____ <u>250</u> inches <u>8 1/2</u> inches + <u>2</u> feet <u>53</u> feet _____ inches _____ inches _____ feet _____ feet _____ inches _____ inches _____ feet _____ feet _____ inches _____ inches _____ feet _____ feet Was casing drive shoe used? ☒ Yes ☐ No Was a packer or seal used? ☐ Yes ☒ No Perforated? ☐ Yes ☒ No How perforated? ☐ Factory ☐ Knife ☐ Torch Size of perforation _____ inches by _____ inches Number _____ From _____ To _____ _____ perforations _____ feet _____ feet _____ perforations _____ feet _____ feet _____ perforations _____ feet _____ feet Well screen installed? ☐ Yes ☒ No Manufacturer's name _____ Type _____ Model No. _____ Diameter _____ Slot size _____ Set from _____ feet to _____ feet Diameter _____ Slot size _____ Set from _____ feet to _____ feet Gravel packed? ☐ Yes ☒ No ☐ Size of gravel _____ Placed from _____ feet to _____ feet Surface seal depth _____ Material used in seal: ☐ Cement grout ☒ Bentonite ☐ Pudding clay ☐ _____ Sealing procedure used: ☐ Slurry pit ☐ Temp. surface casing ☒ Overbore to seal depth Method of joining casing: ☐ Threaded ☒ Welded ☐ Solvent Weld _____ ☐ Cemented between strata Describe access port _____		RECEIVED DEC 8 1986 Department of Water Resources RECEIVED MAR 11 1987 Department of Water Resources Western Regional Office																																																																																															
6. LOCATION OF WELL Sketch map location must agree with written location.  County <u>Ada</u> <u>NE 1/4 NE 1/4 Sec. 32, T. 1 N, R. 4 E</u>		10. Work started <u>11-7-86</u> finished <u>11-14-86</u>																																																																																															
11. DRILLERS CERTIFICATION I/We certify that all minimum well construction standards were complied with at the time the rig was removed. Firm Name <u>Hiddleston Drilling</u> Firm No. <u>35</u> Address <u>117 Home</u> Date <u>11-24-86</u> Signed by (Firm Official) <u>[Signature]</u> and (Operator) <u>Ken Kal</u>																																																																																																	

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

RECEIVED

MAY 10 1982

1. WELL OWNER

Name KING'S MEN (STAFFORD PARKWAY)
Address Mt A Home, Id
Owner's Permit No. _____

7. WATER LEVEL

Static water level 636 feet below land surface
Flowing? ☐ Yes ☒ No G.P.M. flow _____
Artesian closed-in pressure _____ p.s.i.
Controlled by: ☐ Valve ☐ Cap ☐ Plug
Temperature _____ OF, Quality _____

2. NATURE OF WORK

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

8. WELL TEST DATA

☐ Pump ☐ Bailor ☒ Air ☐ Other _____

Discharge G.P.M. _____ Pumping Level _____ Hours Pumped _____

20 _____ 2.0

3. PROPOSED USE

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

4. METHOD DRILLED

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

5. WELL CONSTRUCTION

Casing schedule: ☒ Steel ☐ Concrete ☐ Other _____

Thickness Diameter From To
.250 inches 6 5/8 inches + 1 feet 8 10 feet
_____ inches _____ inches _____ feet _____ feet
_____ inches _____ inches _____ feet _____ feet
_____ inches _____ inches _____ feet _____ feet

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

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

Well screen installed? ☐ Yes ☒ No

Manufacturer's name _____

Type _____ Model No. _____
Diameter Slot size Set from _____ feet to _____ feet
Diameter Slot size Set from _____ feet to _____ feet

Gravel packed? ☐ Yes ☒ No Size of gravel _____

Placed from _____ feet to _____ feet

Surface seal depth _____ Material used in seal: ☐ Cement grout

☐ Puddling clay ☐ Well cuttings

Sealing procedure used: ☐ Slurry pit ☐ Temp. surface casing

☐ Overbore to seal depth

Method of joining casing: ☐ Threaded ☒ Welded ☐ Solvent

Weld

☐ Cemented between strata

Describe access port _____

6. LOCATION OF WELL

Sketch map location must agree with written location.

Subdivision Name _____

Lot No. _____ Block No. _____

County ADA

NE & NLE Sec. 33, T. 1 N./R. 4 E/NL

10.

Work started 26 APR 82 finished 7 May 82

11. DRILLERS CERTIFICATION

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

Firm Name Hillcrest Firm No. 35

Address Mountain Home Date 10 May 82

Signed by (Firm Official) Roy

and
(Operator) RDark

9. LITHOLOGIC LOG

85689

Hole Digm.	Depth		Material	Water	
	From	To		Yes	No
G	710	740	Clay & Fine Sand (CAVING)	✓	
S	740	805	SAND (COARSE) HEAVING	✓	
S	805	837	COARSE SAND & GRAVEL	✓	
B	837	871	WHITE COARSE SAND & G	✓	

RECEIVED

MAY 17 1982

Department of Water Resources

DEPARTMENT OF WATER RESOURCES

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

IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

770361

Office Use Only

Inspected by _____

Twep _____ Rga _____ Sec _____

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

Lat: _____ Long: _____

1. WELL TAG NO. D 0020068

DRILLING PERMIT NO. - - - -

Other IDWA No. _____

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

3. LOCATION OF WELL by legal description:

Sketch map location must agree with written location.


 Twp. 1 North ☒ or South ☐
 Rge. 4 East ☒ West ☐
 Sec. 32 $\frac{1}{4}$ $\frac{1}{4}$ $\frac{1}{4}$ $\frac{1}{4}$
 Gov't Lot _____ County Ada $\frac{1}{4}$ $\frac{1}{4}$ $\frac{1}{4}$ $\frac{1}{4}$
 Lat. _____ Long. _____
 Address of Well Site 1 mile behind Stage Stop

(Give at least name of man, 5 minutes; 1 hour or 1 month)

L.L. _____ Bk. _____ Sub. _____ Name _____

4. USE:

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

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

☒ New Well ☐ Modify ☐ Abandonment ☐ Other _____

8. DRILL METHOD

☒ Air Rotary ☐ Cable ☐ Mud Rotary ☐ Other

7. SEALING PROCEDURES

SEA FILTER PACK		AMOUNT		METHOD
Material	From	To	Sacks or Pounds	
Bentonite	0	20	15	over tone

Was drive shoe used? ☒ Y ☐ N Shoe Depth(s) 20

Was drive shoe seal tested? K Yr N How? Air test

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Inlet	Welded	Threaded
6"	+1	20	250	steel	X	-	X	☐
4 1/2"	19	160		PVC		X	☐	☐
							☐	☐

Length of Headpipe _____ Length of Tailpipe _____

9. PERFORATIONS/SCREENS

Perforations	Method	_____	_____	_____
Screens	Screen Type	_____	_____	_____

From	To	Shl. Size	Number	Diameter	Material	Casing	Log
19	160	40		4 1/2	PC	☐	☒
						☐	☐
						☐	☐

10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

24 ft below ground Artesian pressure _____ lb.

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

11. WELL TESTS:

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

Water Temp. 65 Bottom hole temp. 65

Water Quality test or comments:	Good
---------------------------------	------

Depth First Water Encounter 56

12. LITHOLOGIC LOG: (Describe repairs or abandonment)

[illegible]

Completed Depth 160 (Measurable)
Date: Signed 11/05/2000 Completed 11/10/2000

13. DRILLER'S CERTIFICATION

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

Company Name **Ed L. Holder Drilling** Firm No **578**

Firm Official *[Signature]* 4/9/11 Date 11/10/2000

and
Driver or Operator _____ Date _____

(Sign once at First Official & Operating)

Date 12-7-00

USE TYPEWRITER OR
BALL POINT PEN

State of Idaho
Department of Water Resources

RECEIVED

WELL DRILLER'S REPORT

JUL 10 1976

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

Department of Water Resources

1. WELL OWNER Name <u>BLANKIE STEWART</u> Address <u>BOISE, IDAHO</u> Owner's Permit No. _____	7. WATER LEVEL Static water level <u>89</u> feet below land surface Flowing? ☐ Yes ☒ No G.P.M. flow _____ Temperature _____ ° F. Quality _____ Artesian closed-in pressure _____ p.s.i. Controlled by ☐ Valve ☐ Cap ☐ Plug																																																				
2. NATURE OF WORK ☒ New well ☐ Deepened ☐ Replacement ☐ Abandoned (describe method of abandoning) _____	8. WELL TEST DATA ☐ Pump ☐ Bailor ☒ Other <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Discharge G.P.M.</th> <th>Draw Down</th> <th>Hours Pumped</th> </tr> </thead> <tbody> <tr> <td><u>80</u></td> <td></td> <td><u>2</u></td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	Discharge G.P.M.	Draw Down	Hours Pumped	<u>80</u>		<u>2</u>																																														
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USE ADDITIONAL SHEETS IF NECESSARY

FORWARD THE WHITE COPY TO THE DEPARTMENT

Appendix B

Hydraulic Conductivity Calculations

Project:
Brockway Engineering, PLLC

Well Tests performed with pump at time of drilling

All Pump Tests

[illegible]

Method 2: Thomasson, et al. (1963)

^a $K = T / b$, where b = average saturated depth