



2023 ANNUAL GROUNDWATER MONITORING REPORT

SIMCO WELLS NO. 1 & 2

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Final | 3/18/2024



Prepared on Behalf of
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submitted via email, 2/26/2024

SECTION 1 INTRODUCTION

1.1 Purpose

On January 21, 2016, Water Right No. 78356 was approved by the Idaho Department of Water Resources (IDWR). The approved transfer included six water rights: 61-12283, 61-12284, 61-12285, 61-12281, 61-12280, and 61-12282. A Condition of Approval of each water right was that “the diversion and use in connection with the water right is subject to a Monitoring-Reporting Plan”.

As required by the Groundwater Monitoring Reporting Plan (**Appendix A**), an annual monitoring report shall be submitted to IDWR for the groundwater wells associated with Water Right Transfer No. 78356 (**Appendix B**). This document is the fourth annual monitoring report and documents compliance with the Reporting Plan.

1.2 Background

As noted above, Water Right Transfer No. 78356 was approved by IDWR in January, 2016. The approved transfer included six water rights: 61-12283, 61-12284, 61-12285, 61-12281, 61-12280, and 61-12282. Two new groundwater production wells and a monitoring well were drilled on land owned by J&M Solid Rock during 2018 and 2019 and accessed from Simco Rd. The wells are identified as J&M Pumping Well (PW) No. 1 (Simco Well No.1, D0080123), J&M PW No. 2 (Simco Well No.2, D0082843), and J&M Monitoring Well (MW) No. 1 (MW No.1, D0073073). The two points of diversion under the water right are J&M PW No. 1 and J&M PW No. 2. The irrigation water right allows for diversion of up to 1,476 acre-feet (af) annually at a maximum diversion rate of 5.560 cubic feet per second (cfs). The place of use consists of approximately 765 acres owned by four primary landowners.

1.3 Location

J&M PW No. 1 (NWSW quarter-quarter), J&M MW No. 1 (NWSW quarter-quarter) and J&M PW No. 2 (NESW quarter-quarter) are in Section 14 of Township 1S and Range 4E. The parcels are located south of Highway 84 near Mountain Home, ID and are shown in **Figure 1-1**.

1.4 Well Operation

The two production wells (J&M PW No. 1 and J&M PW No. 2) are operated by the contract farmer as needed, to irrigate the crops identified in **Section 1.5**. Both wells utilize variable frequency drives (VFDs) for pump operation. To operate the wells in concert, the J&M PW No. 1 VFD maintains a user specified flow rate and the J&M PW No. 2 VFD maintains a user specified pressure in the irrigation system.



Figure 1-1 Vicinity Map, Simco Wells Annual Monitoring Report.

1.5 Cropping Plan

Water is diverted from the production wells and pumped to four separate center pivots, shown in **Figure 1-2**. The maximum amount of water allowed for irrigation is 4 acre-feet per acre. During 2023, a total of 369 acres were irrigated. Crops irrigated included feed corn, and chickpeas.

1.6 Monitoring Plan

To provide a standard method of data collection, a Plan of Operation (**Appendix C**) was prepared in 2020 and identifies the monitoring equipment used. A list of installed equipment is as follows:

- Groundwater level monitoring: Keller DCX-18 ECO lever loggers (water level transducers A, B, C), **Appendix D**.
- Manual groundwater level measurements: Solinst Coaxial Cable Water Level Meter, **Appendix E**.
- Solinst Levellogger (water level transducer), **Appendix E**.
- Barometric pressure monitoring: Solinst Barologger 5 (barometric pressure transducer), **Appendix E**.

Each well has one submerged water level transducer. Due to the proximity of all three wells, the barometric pressure is assumed to be the same at each. The barometric transducer is deployed in J&M MW No. 1. **Figure 1-3** shows the construction of all three wells and location of equipment installed in each. Initially, monthly manual groundwater level measurements were used to confirm transducer measurements.

As recommended in the *2021 Annual Groundwater Monitoring Report*, continuous groundwater level and barometric pressure monitoring occur at the same 1-hour intervals throughout the year. A flow meter on the discharge piping of each production well monitors totalized flow and instantaneous diversion rate. Both values are recorded at the time water level is manually measured.

At the beginning of 2023, the transducer deployments were as follows: Keller water level transducer identified as Transducer A (SN 200281) was deployed in well J&M PW No. 1, at a depth of 495 feet (ft) below ground surface (bgs), 7 ft above the top of the pump intake. Keller transducer identified as Transducer B (SN 200274) was deployed in well J&M PW No. 2 at a depth of 455 ft bgs, also 7 ft above the pump intake. Transducer C (SN 10400) was deployed in J&M MW No.1 at a depth of 450 ft bgs. Also deployed in J&M MW No.1 was a Solinst water level transducer (SN 2080073) at a depth of 450 ft bgs. A Solinst barologger was also deployed in J&M MW No. 1, placed at 50 ft bgs.

Monitoring data available for assessment for the 2023 period was impacted by technical difficulties encountered during the reporting period and by changes in subcontractors. Preseason monitoring 2023 identified that Keller transducer B, SN 200274, placed in well J&M PW No. 2 could not be read when retrieved on the site visit, 3/28/2023. A replacement transducer ordered did not fit the measurement port. Keller Transducer C (SN 104000) was removed from J&M MW No. 1 and placed in J&M PW No. 2, 4/27/2023 and intended to be set at 450 ft bgs. Difficulty was encountered on initial deployment, 4/27/2023. Transducer C was removed and reset again 6/29/2023.

Idaho Water Engineering assumed monitoring responsibilities from Stantec, Mid-season, 2023.

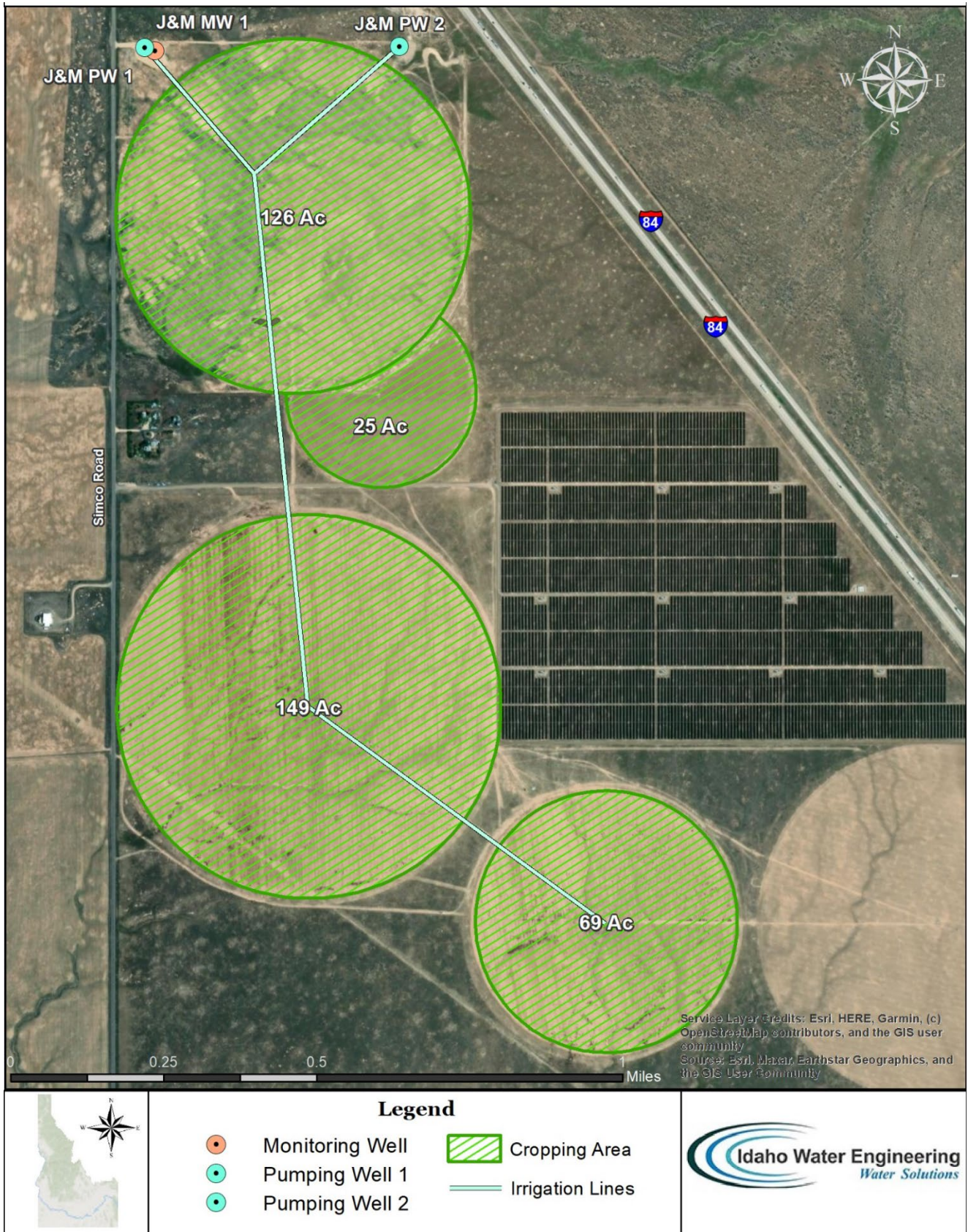


Figure 1-2 Cropping Plan for Simco Wells Annual Monitoring Report.

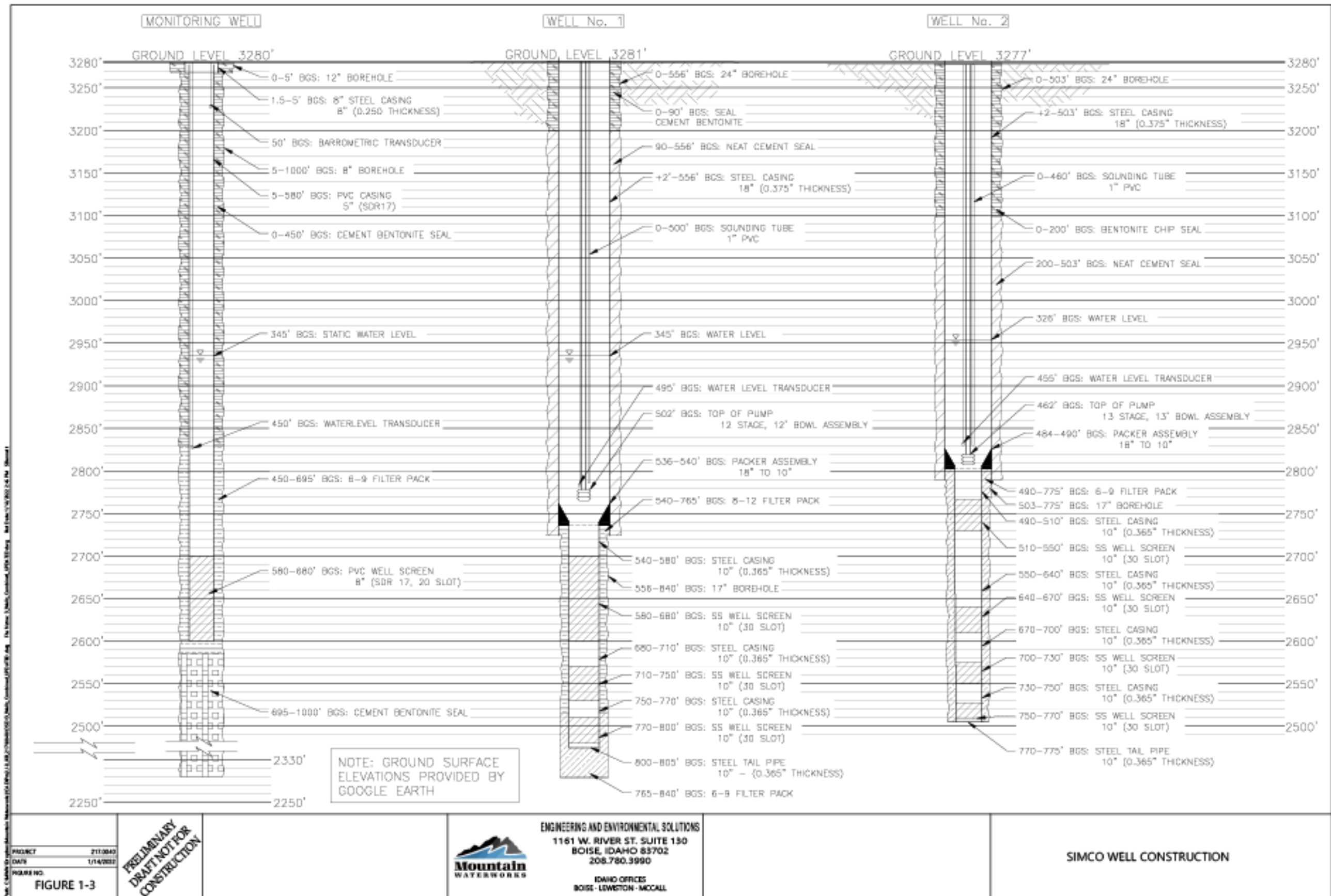


Figure 1-3. Construction diagrams Simco pumping and monitoring wells.

SECTION 2 FLOW MONITORING

Totalized flow and instantaneous diversion rate of each production well were measured by a magnetic flow meter located in each well's discharge piping. These values were manually recorded several times throughout the pumping season. The pumps operated from April 2023 through September 2023. A total of approximately 1,190 acre-feet of water was diverted under the water right at a maximum recorded diversion rate of 5.46 cfs (**Table 2-1**). Based on the recorded data¹, the points of diversion (J&M PW No. 1 and J&M PW No. 2) were in compliance with the maximum allowable diversion volume (1,476 acre-feet), and rate (5.56 cfs), as identified in Water Right Transfer No. 78356.

Table 2-1: Flow Monitoring at Simco Production Wells, 2023

Location	Total Diversion Volume		Maximum Recorded Diversion Rate	
	million gallons	acre-feet	gpm	cfs
J&M PW No. 1	224.2	688	1,000	2.23
J&M PW No. 2	163.4	502	1,338	2.98
Total	387.6	1,190	2,338	5.21
Allowed by Water Right	481.0	1,476	2,495	5.56

Note: The maximum diversion rate was calculated as the sum of the highest observed flows from monthly site visits.

¹ Available dates for flow and totalizer volumes, J&M PW No.1: 8/19/2022, 2/9/2024, J&M PW No. 2: 1/18/2023, 6/29/23, 3/11/2024.

SECTION 3 GROUNDWATER MONITORING

Results for continuous and manual groundwater monitoring of the 2023 calendar year are presented in the following sections. The calculated water level is based on transducer setting depth, the height of water measured over the transducer, and the water levels after they have been adjusted for observed barometric pressure.

3.1 Continuous Monitoring

3.1.1 Pumping Well No. 1 (J&M PW No. 1)

Groundwater level monitoring results for J&M PW No. 1 are shown in **Figure 3-1**. The observed water level increased following the conclusion of pumping in the fall of 2022 to a high of 347 ft bgs prior to the beginning of pumping, 2023, compared to the initially reported static groundwater level of 345 ft bgs at the time of completion, 2016. Pumping began at the J&M PW No. 1 on 4/29/2023, which corresponds to the first sharp downward trend in water level.

Periods of sharp downward trending groundwater levels indicate diversion from J&M PW No. 1. While an upward spike indicates periods of no diversion from J&M PW No. 1. This decline and characteristic recovery curve represent distinct pumping cycles. The maximum recorded drawdown during 2023 was 149 feet, corresponding to a pumping water level of approximately 494 ft bgs. The maximum drawdown was 140 feet with a corresponding pumping level of 484 ft bgs for 2022.

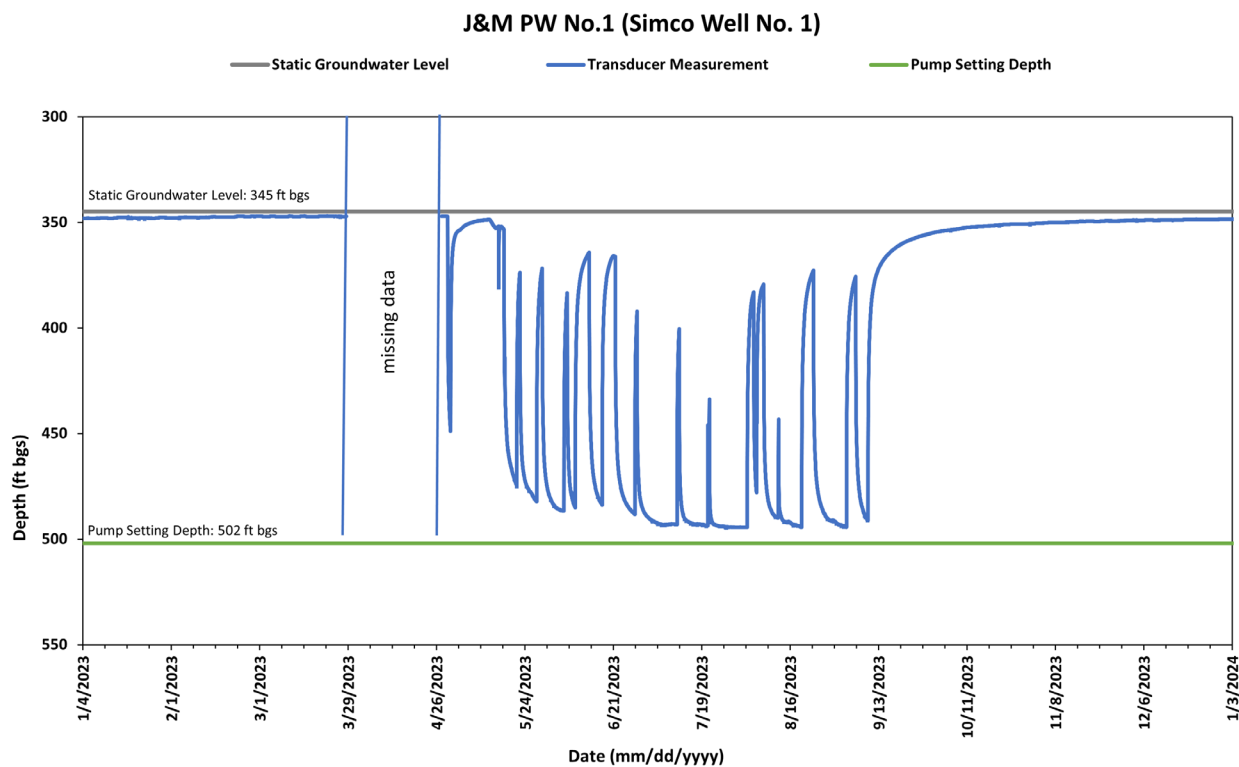


Figure 3-1: Groundwater level monitoring for J&M PW No. 1, 2023.

Diversion of groundwater from J&M PW No. 1 ended for the season in September, which marked the start of aquifer recovery. As of December 31, 2023, the recorded water level was 348 ft bgs, which is within approximately 1 foot of the pre-irrigation season static groundwater level of 347 ft bgs. The static water level presented on the graphic reflects the

3.1.2 Production Well No. 2 (J&M PW No. 2)

The water level record for well J&M PW No. 2 for 2023 is compromised due to missing data resulting from the loss of a deployed transducer and due to an inaccurate assessment of the deployment depth for the replacement transducer. However, some information regarding water level response during the 2023 pumping season can be understood when placed in context.

The data record for Transducer B, initially deployed in J&M PW No. 2 in 2020 exists through January 18, 2023 when the transducer was removed from the well to be read. Transducer B was observed as lost on return to read transducers on March 28, 2023. Effort was made to retrieve the transducer and cabling lost in the well but not successful. Keller Transducer C was redeployed from J&M MW No. 1 to J&M PW No. 2 on April 27, 2023, with a water level record available through 2023. Review of the raw groundwater level data from Transducer C suggested that the instrument was not deployed to the same depth as the original Transducer B. Review and comparison with the 2022 record for J&M PW No.1 and 2 and with the 2023 record for J&M PW No.1 allows some preliminary characterization of the compromised 2023 record for J&M PW No. 2 to be made.

A comparison of groundwater levels for J&M PW No. 1 and PW No.2 for 2022 is presented in **Figure 3-2**. This comparison of transducer records and water level measurements for J&M PW No. 1 and PW No.2 consistently reports a 20 ft greater depth to water level bgs for PW No. 1, during the pre- and post-pumping periods. Comparison of records also reflect similar patterns for drawdown during the typical period of diversions with a difference of about 45 ft during periods of maximum drawdown. This comparison also provides data from the raw transducer record to indicate when the transducer is pulled from the well measurement port to allow for water level measurements.

With insights drawn from Figure 3-2, observations allowing estimates of the water level recovery depth and the maximum drawdown can be made. **Figure 3-3** includes the raw record for Transducer C placed in J&M PW No. 2, the comparative record for J&M PW No. 1, and an adjusted record based on the raw Transducer C data. Similar patterns for drawdown and recovery are observed for wells for J&M PW No. 1 and PW No.2. Early diversion-season pumping and recovery trends as well as late season trends indicate that water levels recover to a level approaching the static groundwater level for the individual wells for the 2022 record. This suggests that the early and late season raw record for Transducer C likely represents similar condition. Overall, the raw record suggests that the redeployed Transducer C is likely hung in the measuring port as much as 70 ft above the previous deployment depth, and late season, after efforts to reposition, Transducer C may be as much as 90 ft above the previous deployment level. Periods where the transducer record indicates a flat line (constant depth) represent the transducer above the groundwater level. Based on these observations,

an estimate of maximum drawdown for J&M PW No.2 would be approximately 45 ft less than J&M PW No.1, approximately 120 ft, and approximately 449 ft bgs. Estimated water level at the end of 2023 is 328 ft bgs, consistent with the value at the end of 2022 and within 2 ft of the previous year static groundwater level 326 ft bgs at the time of drilling, 2019, as indicated on Figure 3-3. Transducer C should be properly redeployed at a confirmed depth sufficiently below the static groundwater level for the 2024 season.

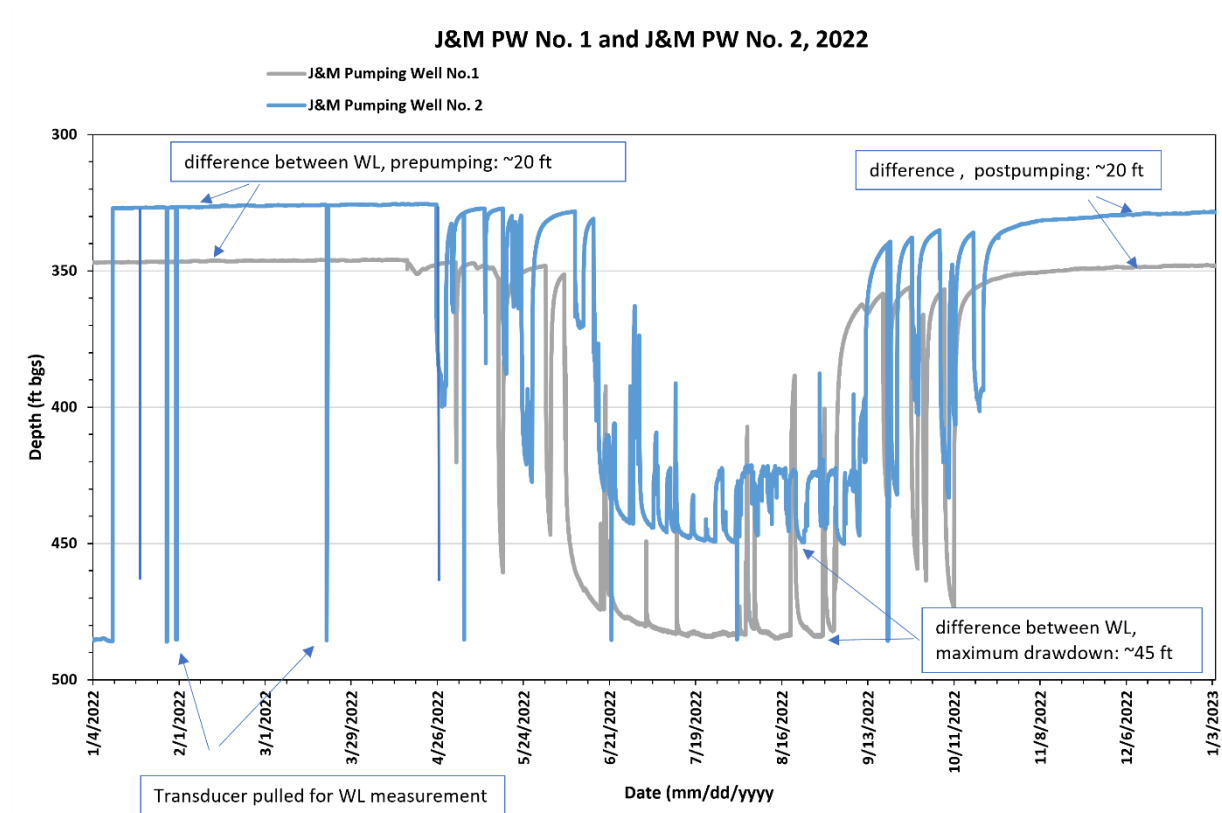


Figure 3-2: Comparison of groundwater levels for wells J&M PW No. 1 and J&M PW No. 2, 2022.

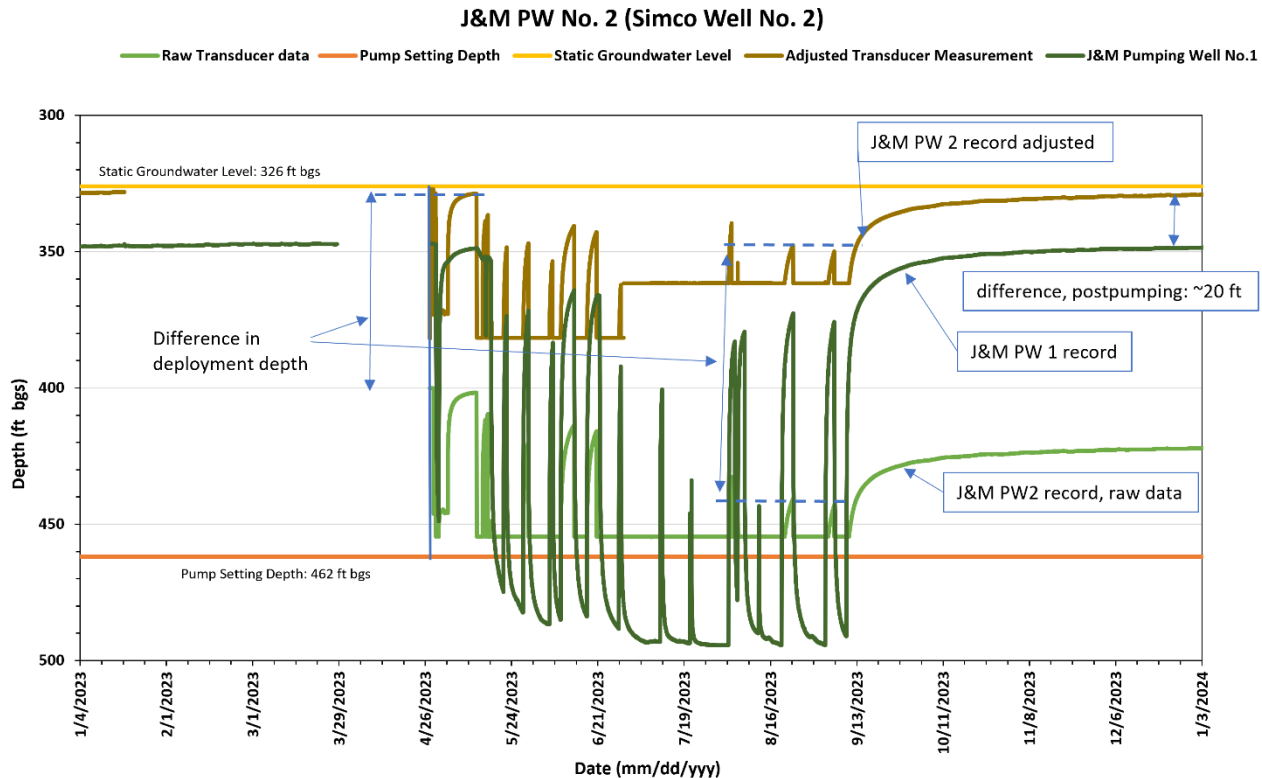


Figure 3-3: J&M PW No. 2 Groundwater Monitoring, with comparative record for J&M PW No.1 and raw and adjusted record for J&M PW No. 2, 2023.

3.1.3 Monitoring Well (J&M MW No. 1)

Barometric pressure and the groundwater level were monitored in J&M MW No. 1. Groundwater monitoring results are presented in **Figure 3-4**.

The groundwater level record for J&M MW No.1 for 2023 is provided by Transducer C (Keller transducer) through 3/28/2023 and from a Solinst levellogger previously deployed as a secondary water level transducer within J&M MW No. 1. A record of groundwater level is available from April 10, 2023 and on. The Solinst transducer is installed at a depth of 450 ft bgs.

The observed groundwater level record for J&M MW No.1 reflects the pattern of water level and drawdown observed for J&M PW No.1, located in close proximity to J&M MW No.1. Non-pumping season levels are about 4 ft greater than for PW No. 1, and with maximum drawdown during pumping cycles about 38 ft less for J&M MW No.1 compared to J&M PW No.1.

The max recorded drawdown during the 2023 irrigation season for J&M MW No.1 was 105 feet, corresponding to a water level of 450 feet bgs. However, at this drawdown, the transducer was recording atmospheric pressure, indicating that the groundwater level within the well exceeded the depth that the transducer was set at. The transducer data record indicates that periods of exceedance occurred five times from July through September. Comparing the record for maximum drawdown for J&M PW No. 1 and J&M MW No.1, with a difference of 38 ft for periods of maximum drawn earlier in the diversion season,

the estimated maximum drawdown for J&M MW No. 1 is 111 ft with a corresponding level of 456 ft bgs.

Aquifer recovery was monitored through December 31, 2023, with the water level measured at 352 ft bgs. Groundwater levels recovered to approximately 100 percent of the of the pre-irrigation season groundwater level of 352 ft bgs at the end of 2023. The static groundwater level at the time of drilling, 2016 was 345 ft bgs.

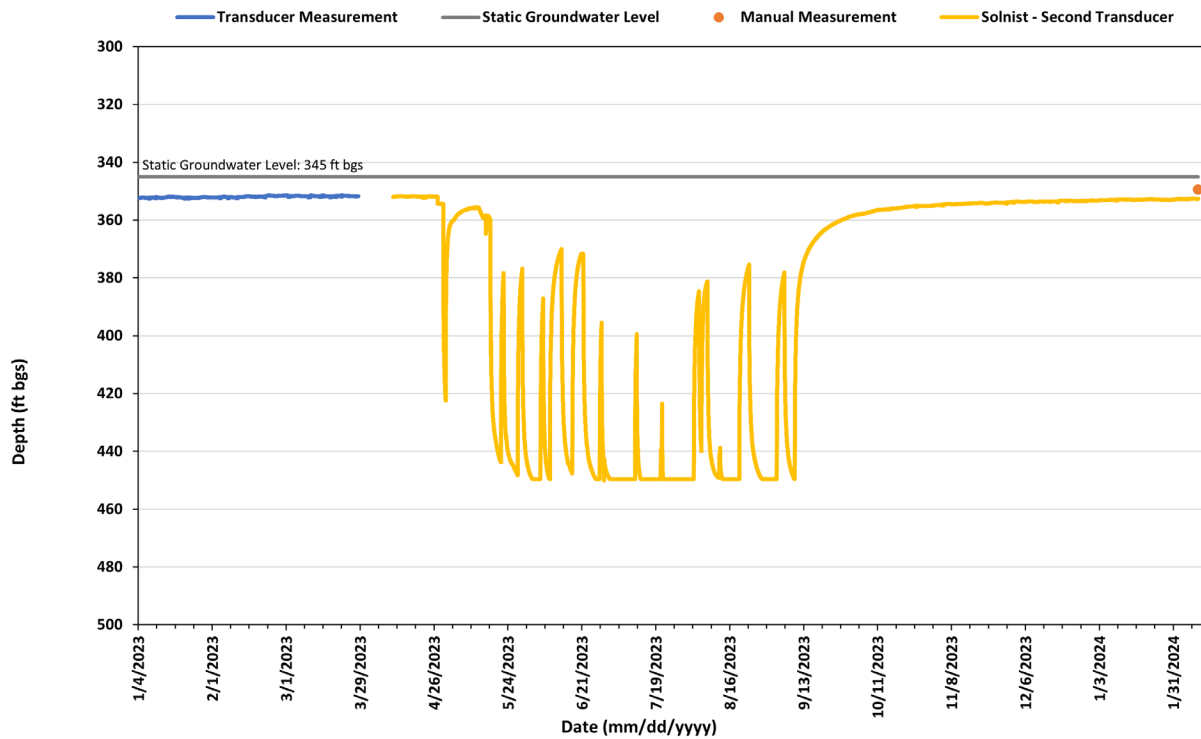


Figure 3-4: J&M MW No. 1 Groundwater Monitoring, 2023.

3.2 Manual Measurements

Manual measurements were attempted monthly during 2022 for J&M PW No. 1 and 2 with notes indicating difficulty in achieving a measurement due to the presence of food-grade oil from the line-shaft turbine pumps suspended above the static water level. The most recent successful groundwater level measurements for the pumping wells were completed in 2021. No attempts at manual measurements are recorded for 2023. Manual measurements for J&M MW No.1 are recorded for October, 2022, and for February, 2024. Manual measurements are shown as orange circles on **Figure 3-4** for J&M MW No. 1 (the graph does not extend to Oct 2022, so that measurement is not going to be on the graph). The manual measurements serve as a confirming calculation of the groundwater level based on the transducer installation depth and barometric pressure reading.

SECTION 4 SUMMARY AND RECOMMENDATIONS

4.1 Summary

Monitoring during 2023 was conducted sufficient to assess changes in groundwater levels and compliance with withdrawal rates, however changes in monitoring contractors and lack of records documenting water level measurements are deviations from the Monitoring Plan. Groundwater and flow monitoring indicates operation of the J&M Solid Rock Wells were in compliance with Water Right Transfer No. 78356 in 2022. A summary of the 2023 monitoring is as follows:

- A maximum drawdown of 149-feet and 105 feet was recorded for J&M PW No. 1 and J&M MW No. 1, respectively. The accuracy of measurement of drawdown for J&M PW No. 2 was compromised due to issues related to the difficulties encountered with deployment of a replacement transducer. Drawdown for J&M PW No. 2 is estimated at 120 feet, based on the available information for J&M PW No.2 and comparison with current and previous year's record.
- Groundwater levels recovered to within 1 foot, 2.0 feet of the pre-irrigation season static water level for J&M PW No. 1 and J&M PW No. 2 respectively, and to the pre-irrigation static water level in J&M MW No. 1.
- A total of 1,190 acre-feet of groundwater was diverted from the production wells at a maximum recorded rate of 5.21 cfs.
- Chickpeas, and feed corn were grown, with a total estimated irrigation area of approximately 369 acres.
- Review of transducer data received indicates that the Solinst transducer placed in J&M MW No.1 should be redeployed at a level at least five feet deeper below ground surface, to a depth of at least 455 feet. Bgs.
- Remaining debris related to the transducer and cable for J&M PW No.2 should be retrieved to allow accurate placement of the redeployed transducer.

4.2 Owner Recommendations

The following are recommended changes to the Reporting Plan:

- Submission of report and groundwater level data annually as part of the Annual Report by February 15 of the succeeding year.
- Transducer (groundwater level and barometric pressure) recorded at 6-hour intervals for all three wells.
- Manual measurements conducted three times a year for all three wells at this schedule: measurement within 30 days before pumping commences (around mid-April), measurement within 30 days after pumping ceases (around early October), and measurement around January 1st.

Appendix A

Groundwater Monitoring Reporting Plan

May 5, 2020

Nick Miller, Western Region Manager
Idaho Department of Water Resources
2735 W Airport Way
Boise, Idaho 83705

SUBJECT: GROUNDWATER MONITORING-REPORTING PLAN

Dear Mr. Miller,

On January 21, 2016, Water Right No. 78356 was approved by the Idaho Department of Water Resources (IDWR). The approved transfer included six water rights: 61-12283, 61-12284, 61-12285, 61-12281, 61-12280, and 61-12282. A Condition of Approval of each water right was that “the diversion and use in connection with the water right is subject to a Monitoring-Reporting Plan”. As outlined in the Condition of Approval, the right holder shall provide the IDWR with a plan for monitoring-reporting of aquifer levels, diversion flow rates, and volumes.

It is Mountain Waterworks’ understanding the Shekinah Industries, Inc. (Shekinah) water rights have been further subdivided by the four primary landowners owning approximately 765-acres and designated as the place of use. The table below summarizes the land ownership and associated water right percentage that will ultimately modify water rights currently under the ownership of Shekinah.

Table 1: Shekinah Water Right Ownership

Land Owner	Acres	Water Ownership (%)	Water Vol. (AFA)
Duane & Cheryl Amyx	32.14	3.39	50.0
Paul & Sheila Hudson	100.00	10.56	155.9
J&M Solid Rock, LLC	160.00	16.89	249.3
Shekinah Industries Inc.	481.76	69.16	1020.8
Totals	773.90	100.00	1,476.0

On behalf of J&M Solid Rock, LLC and Shekinah, Mountain Waterworks is proposing the following groundwater monitoring plan associated with the Transfer of Water Right No. 78356.

Background Information

Two new groundwater wells were drilled on land owned by J&M Solid Rock during 2018, 2019 and will be the initial points of diversion under the new water rights. In addition to the production wells, a shallow groundwater monitoring well (MW No.1) was constructed and developed for monitoring of shallow groundwater. The wells are identified as J&M PW No. 1 (D0080123) and J&M PW No. 2 (D0082843) and will be the primary points of diversion to complete the transfer. The water rights in total will divert 1,476 acre-feet annually at a maximum diversion rate of 5,56 cfs. The place of use is identified on a total of 765-acres and will be limited to irrigation of 369-acres within the approved place of use.

Shekinah Groundwater Monitoring-Reporting Plan

Monitoring Well (J&M MW No.1), J&M PW. No.1 (D0080123), J&M PW No. 2 (D0082843)

May 4, 2020

Groundwater Monitoring-Reporting Plan

1. Groundwater Monitoring

- 1.1. Installation of pressure transducers in the pumping wells (J&M PW. No.1 D0080123, J&M PW No. 2 D0082843), with a reading frequency of every six hours for the first year, and re-evaluation thereafter.
- 1.2. Installation of a barometric pressure recorder in the shallow observation well, with a reading frequency of every six hours for the first year, and re-evaluation thereafter.
- 1.3. Quarterly hand measurement of water levels for the first year for production wells and the monitoring well, and re-evaluation of measurement frequency thereafter.
- 1.4. Monitoring at an increased frequency (1-hour) in the pumping well at the end of the irrigation season to facilitate water level recovery analysis.

2. Flow Monitoring

- 2.1. Installation of a flowmeter on the production wells (e.g. magmeter) to record discharge over the first year with re-evaluation thereafter.
- 2.2. The flowmeter should meet IDWR's minimum acceptable standards for measurement and reporting of surface and groundwater diversions;
 - ✓ Minimum manufacturers' design accuracy of +/- 2 percent of reading
 - ✓ Installed accuracy of at least +/- 10 percent of reading
 - ✓ Must read instantaneous flow or be capable of flow rate calculation
 - ✓ Must record total volume
 - ✓ Non-volatile memory (power outage does not zero volume reading)
 - ✓ Sufficient digits to assure "roll-over" to zero does not occur within 2 years
 - ✓ Volume reading cannot be "reset" to zero
 - ✓ Installed to manufacturers' specifications

3. Facility Operation

- 3.1. Initiation of pumping using an uninterrupted, constant withdrawal rate, over 2-day time period, to evaluate the effects of extended pumping.

4. IDWR Reporting

- 4.1. Reporting of water level data on a monthly basis to IDWR for the first year, and re-evaluation of submittal frequency thereafter.
- 4.2. Submission of an annual report to IDWR that would include:
 - ✓ Analysis of water level trends in the production wells, and shallow monitoring well.
 - ✓ Reporting of discharge rates over time and analysis in relation to water level trends.
 - ✓ Reporting of crops grown and acres irrigated during the year.

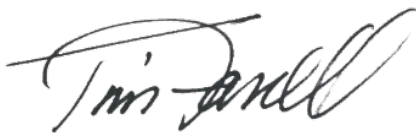
Pumping Equipment Installation and Sequence of Pumping

Due to timing of how the production wells will be equipped, and how the land will be farmed and irrigated, the operational sequencing for PW No. 1 and PW No. 2 will differ during the spring of 2020. PW No. 2 will be the first on-line and will be utilized to supply two (2) center pivots, irrigating approximately 148 acres. PW No. 1 will be equipped in May 2020 and will supply two (2) center pivots. Both wells together will supply four (4) center pivots and irrigate 369 total acres at a maximum diversion rate of 5.56 cfs.

Please contact me directly with questions or concerns on the proposed Groundwater Monitoring and Reporting Plan. I can be reached directly at 208.850.9978, or tfarrell@mountainwtr.com.

Respectfully submitted,

Mountain Waterworks

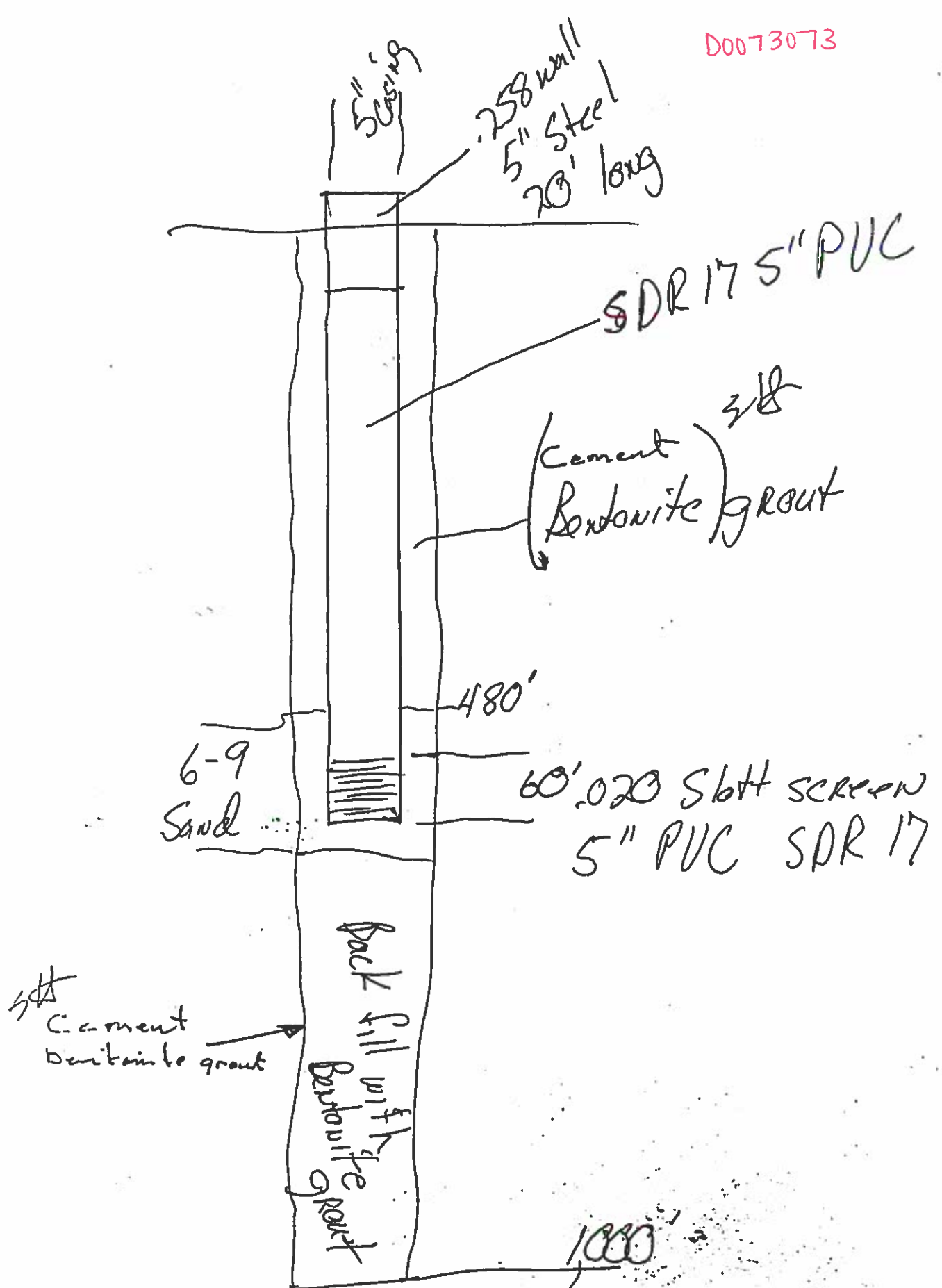


Tim Farrell, P.E.
Vice President and Principal Engineer

Attachments:

1. J&M MW No. 1
2. J&M PW- 1 Drillers Report
3. J&M No. 1 – As Built
4. J&M PW-2 Drillers Report
5. J&M No. 2 – As Built

D0073073



MAY 08 2019

WATER RESOURCES
WESTERN REGIONIDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

1. WELL TAG NO. D 0080123

Drilling Permit No. 887433
Water right or injection well # Transfer #78356

2. OWNER:

Name J&M Solid Rock LLC
Address 1761 S. Phillippi
City Boise State Id Zip 83705

3. WELL LOCATION:

Twp. 1 North ☒ or South ☐ Rge. 4 East ☒ or West ☐
Sec. 14 10 acres 1/4 40 acres 1/4 160 acres 1/4Gov't Lot _____ County Elmore
Lat. 43 20.052' N (Deg. and Decimal minutes)
Long. 115 57.240' W (Deg. and Decimal minutes)
Address of Well Site 3,400' South of I 84 on Simco Rd.(Give at least name of road + Distance to Road or Landmark)
Lot _____ Blk. _____ Sub. Name _____

4. USE:

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

5. TYPE OF WORK:

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

6. DRILL METHOD:

☐ Air Rotary ☐ Mud Rotary ☐ Cable ☒ Other Reverse Rotary

7. SEALING PROCEDURES:

Seal material	From (ft)	To (ft)	Quantity (lbs or ft ³)	Placement method/procedure
Bentonite chips	0'	90'	5 yards	Poured
Cement	90'	556'	21 yards	Pumped

8. CASING/LINER:

Diameter (nominal)	From (ft)	To (ft)	Gauge/Schedule	Material	Casing	Liner	Threaded	Welded
18"	+2'	556'	.375	Steel	☒	☐	☐	☒
10"	540'	580'	.365	Steel	☐	☒	☐	☒
10"	680'	710'	.365	Steel	☐	☒	☐	☒
10"	750'	770'	.365	Steel	☐	☒	☐	☒

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

9. PERFORATIONS/SCREENS:

Perforations ☐ Y ☒ N Method _____Manufactured screen ☒ Y ☐ N Type Johnson Vee WireMethod of installation Lowered

From (ft)	To (ft)	Slot size	Number/ft	Diameter (nominal)	Material	Gauge or Schedule
580'	680'	.30	100'	10"	Stainless	250'
710'	750'	.30	40'	10"	Stainless	250'
770'	800'	.30	30'	10"	Stainless	250'

Length of Headpipe _____ Length of Tailpipe 5'Packer ☒ Y ☐ N Type Figure K Swedge Packer

10. FILTER PACK:

Filter Material	From (ft)	To (ft)	Quantity (lbs or ft ³)	Placement method
8-12	808'	765'	3,000 lbs	Poured
6-9	765'	540'	16,200 lbs	Poured

11. FLOWING ARTESIAN:

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

Describe control device _____

12. STATIC WATER LEVEL and WELL TESTS:

Depth first water encountered (ft) 345' Static water level (ft) 345'
Water temp. (°F) 64 Bottom hole temp. (°F) 64
Describe access port Will be added 2" pipe

Well test:

Drawdown (feet)	Discharge or yield (gpm)	Test duration (minutes)
<u>124'</u>	<u>1500</u>	<u>480</u>
<u>124'</u>	<u>1230</u>	<u>960</u>

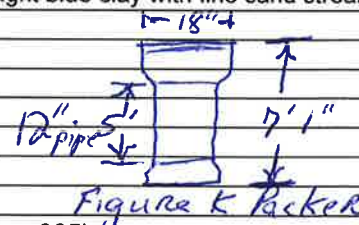
Test method:

Pump	Bailer	Air	Flowing artesian
☒	☐	☐	☐

Water quality test or comments: _____

13. LITHOLOGIC LOG and/or repairs or abandonment:

Bore Dia. (in)	From (ft)	To (ft)	Remarks, lithology or description of repairs or abandonment, water temp.	Water	
				Y	N
24"	0'	10'	Clay topsoil		X
	10'	120'	Cemented sand & gravel		X
	120'	129'	Sand & gravel		X
	129'	170'	Cemented sand & gravel		X
	170'	183'	Sand & gravel		X
	183'	203'	Tan clay		X
	203'	225'	Sand & gravel		X
	225'	270'	Tan clay		X
	270'	285'	Sand & gravel	X	
	285'	400'	Cemented sand & gravel		X
	400'	430'	Basalt		X
	430'	450'	Sandstone		X
	450'	480'	Cemented sand & gravel	X	
	480'	498'	Basalt		X
	498'	515'	Cemented sand		X
	515'	525'	Hard sandstone		X
	525'	578'	Cemented sand & clay streaks	X	
	578'	680'	Course sand with clay streaks	X	
	680'	691'	Brown clay		X
	691'	705'	Cemented fine sand		X
	705'	710'	Blue clay		X
	710'	741'	Fine blue sand	X	
	741'	769'	Blue clay		X
	769'	800'	Fine blue sand	X	
	800'	840'	Light blue clay with fine sand streaks		X

Completed Depth (Measurable): 805'Date Started: 7-10-18Date Completed: 4-23-19

14. DRILLER'S CERTIFICATION:

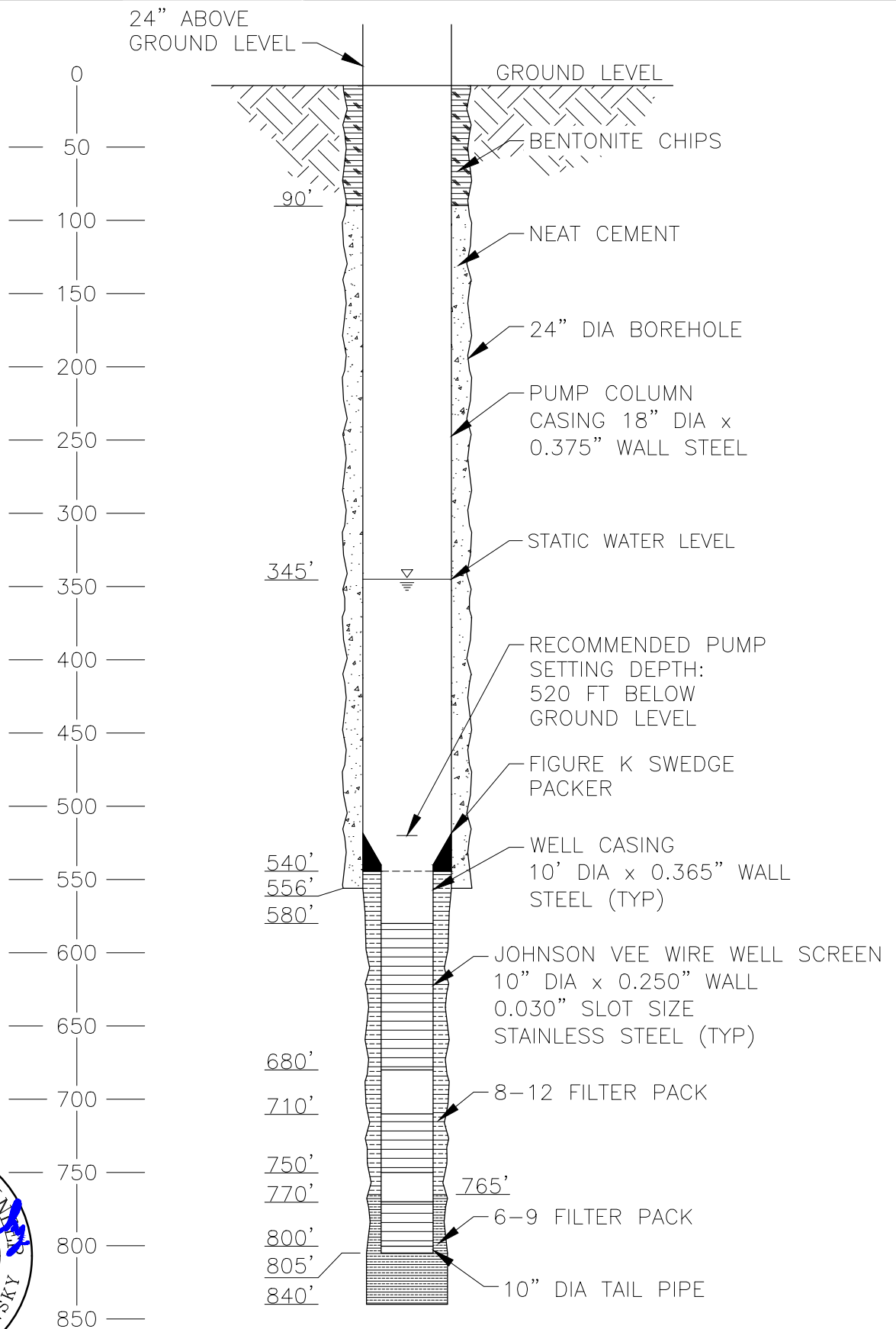
I/We certify that all minimum well construction standards were complied with at the time the rig was removed.

Company Name Stevens & Sons Co. No. 153*Principal Driller [Signature] Date 4-24-19*Driller [Signature] Date 4-24-19

*Operator II _____ Date _____

Operator I _____ Date _____

* Signature of Principal Driller and rig operator are required.



ENGINEERING AND ENVIRONMENTAL SOLUTIONS
1161 W. RIVER ST. SUITE 130
BOISE, IDAHO 83702
208.780.3990

IDAHO OFFICES
BOISE · LEWISTON · COEUR D'ALENE

SIMCO ROAD WELL NO.1

AS-BUILT

PROJECT NO.:
217.0020

SHEET NO.
FIGURE 3

IDAHO DEPARTMENT OF WATER RESOURCES

WELL DRILLER'S REPORT

1. WELL TAG NO. D 0082843

Drilling Permit No. _____

Water right or injection well # Transfer No. 783566 61-12280

2. OWNER: 61-12281 61-12282 61-12283 61-12284

Name J&M Solid Rock

Address 1761 S. Phillippi

City Boise State Id. Zip 83705

3. WELL LOCATION:

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

Sec. 14 10 acres 1/4 N.E. 40 acres 1/4 S.W. 160 acres 1/4

Gov't Lot _____ County Elmore

Lat. 43 20.184 (Deg. and Decimal minutes)

Long. 115 56.770 (Deg. and Decimal minutes)

Address of Well Site 34,00' South of I 84 on Simco Road.

2,400' East City _____

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

Lot. _____ Blk. _____ Sub. Name _____

4. USE:

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

☐ Other _____

5. TYPE OF WORK:

☒ New well ☐ Replacement well ☐ Modify existing well

☐ Abandonment ☐ Other _____

6. DRILL METHOD:

☐ Air Rotary ☐ Mud Rotary ☐ Cable ☐ Other Reverse Rotary

7. SEALING PROCEDURES:

Seal material	From (ft)	To (ft)	Quantity (lbs or ft ³)	Placement method/procedure
Bentonite chips	0'	165'	7 Yards	Poured
Cement	165'	503.5'	20 Yards	Pumped

8. CASING/LINER:

Diameter (nominal)	From (ft)	To (ft)	Gauge/Schedule	Material	Casing	Liner	Threaded	Welded
18"	+ 2'	503.	.375	Steel	☒	☐	☐	☒
10"	490'	510'	.365	Steel	☐	☒	☐	☒
10"	550'	640'	.365	Steel	☐	☒	☐	☒
10"	670'	700'	.365	Steel	☐	☒	☐	☒

Was drive shoe used? ☐ Y ☒ N Shoe Depth(s) 8' 800'

9. PERFORATIONS/SCREENS:

Perforations ☐ Y ☒ N Method _____

Manufactured screen ☒ Y ☐ N Type 304 Stainless V-wire

Method of installation Lowered

From (ft)	To (ft)	Slot size	Number/ft	Diameter (nominal)	Material	Gauge or Schedule
510'	550'	.030	40'	10"	Stainless	
640'	670'	.030	30'	10"	Stainless	
700'	730'	.030	30'	10"	Stainless	

Length of Headpipe 20' Length of Tailpipe 5'

Packer ☐ Y ☐ N Type _____

10. FILTER PACK:

Filter Material	From (ft)	To (ft)	Quantity (lbs or ft ³)	Placement method
6-9 Sand	490'	785'	21,700 lbs	Poured

11. FLOWING ARTESIAN:

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

Describe control device _____

12. STATIC WATER LEVEL and WELL TESTS:

Depth first water encountered (ft) 330 Static water level (ft) 326'

Water temp. (°F) 66 Bottom hole temp. (°F) _____

Describe access port _____

Well test:

Drawdown (feet)	Discharge or yield (gpm)	Test duration (minutes)
108'	1,500	1,790

Test method:

Pump	Bailer	Air	Flowing artesian
☒	☐	☐	☐

Water quality test or comments: _____

13. LITHOLOGIC LOG and/or repairs or abandonment:

Bore Dia. (in)	From (ft)	To (ft)	Remarks, lithology or description of repairs or abandonment, water temp.	Water	
				Y	N
24"	0'	4'	Clay topsoil		X
	4'	19'	Course cemented sand		X
	19'	230'	Clay, course sand, sandy clay		X
	230'	240'	Basalt		X
	240'	250'	Cemented sand tan		X
	250'	265'	Darker brown cemented sand		X
	265'	300'	Course cemented sand tan		X
	300'	322'	Sand stone		X
	322'	325'	Tan clay		X
	325'	330'	Sand clay		X
	330'	345'	Sand	X	
	345'	363'	Sandy clay		X
	363'	388'	Tan clay		X
	388'	405'	Cemented sand	X	
	405'	415'	Sandy clay		X
	415'	500'	Course compacted sand	X	
17"	500'	510'	Clay		X
	510'	550'	Sand and gravel	X	
	550'	580'	Clay		X
	580'	630'	Cemented finer sand	X	
	630'	643'	Clay		X
	643'	666'	Sand	X	
	666'	703'	Cemented finer sand	X	
	703'	730'	Sand	X	
	730'	750'	Blue clay		X
	750'	770'	Sand	X	
8' 800'	770'	1005'	Blue, gray clay and very fine sand	X	
			Casing		
10"	730'	750'	.365 Steel Liner Welded		
10"	770'	775'	.365 Steel Liner Welded		
			Screen		
10"	750'	770'	.030 30' Stainless		

Completed Depth (Measurable): 775'

Date Started: Jun 12, 2019

Date Completed: Sep 4, 2019

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 Stevens & Sons Co. No. 153

*Principal Driller _____ Date Sep 10, 2019

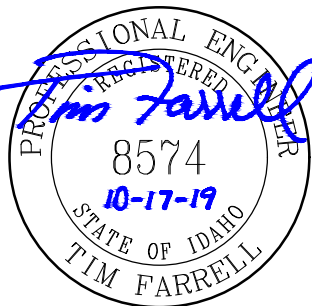
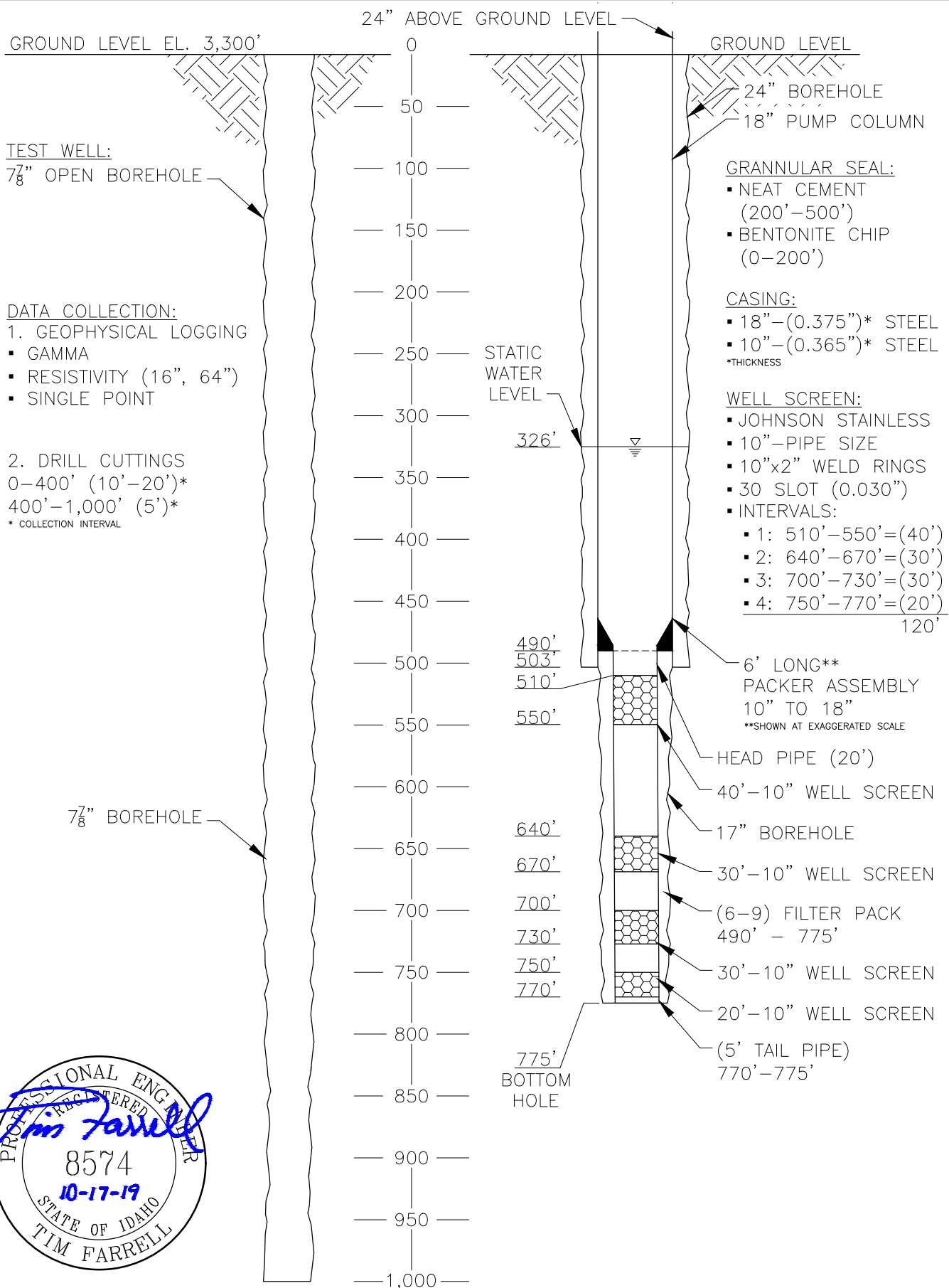
*Driller _____ Date Sep 10, 2019

*Operator II _____ Date _____

Operator I _____ Date _____

* Signature of Principal Driller and rig operator are required.

Back filled from 800' to 1005' with Bentonite & well cuttings



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IDAHO OFFICES
BOISE · LEWISTON · COEUR D'ALENE

SIMCO ROAD DWS

SIMCO WELL NO. 2 AS BUILT

PROJECT NO.:

217.0020

SHEET NO.

FIGURE 2-4

Appendix B

Water Rights Transfer No. 78356

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

TRANSFER OF WATER RIGHT
TRANSFER NO. 78356

This is to certify that: SHEKINAH INDUSTRIES INC
ATTN: MICHAEL PRESTON
420 BITTERROOT DR
BOISE, ID 83709

has requested a change to the water right(s) listed below. This change in water right(s) is authorized pursuant to the provisions of Section 42-222, Idaho Code. A summary of the changes is also listed below. The authorized change for each affected water right, including conditions of approval, is shown on the following pages of this document.

Summary of Water Rights Before the Proposed Changes

<u>Water Right</u>	<u>Origin/Basis</u>	<u>Priority Date</u>	<u>Diversion Rate</u>	<u>Diversion Volume</u>	<u>Acre Limit</u>	<u>Total Acres</u>	<u>Source</u>
61-10378	WR/DECREED	4/30/1974	0.800 cfs	N/A	47.0	1459.0	GROUND WATER
61-2154	WR/DECREED	1/14/1963	5.440 cfs	1088.0 af	272.0	1459.0	GROUND WATER
61-2155	WR/DECREED	1/14/1963	5.860 cfs	1232.0 af	308.0	1459.0	GROUND WATER
61-7005	WR/DECREED	8/23/1967	5.240 cfs	1280.0 af	320.0	1459.0	GROUND WATER
61-7119	WR/LICENSE	7/10/1972	5.240 cfs	1048.0 af	262.0	1459.0	GROUND WATER
61-7396	WR/DECREED	1/4/1980	2.200 cfs	640.0 af	160.0	1459.0	GROUND WATER

Purpose of Transfer (Changes Proposed)

<u>Current Number</u>	<u>Split</u>	<u>POD</u>	<u>POU</u>	<u>Add POD</u>	<u>Period of Use</u>	<u>Nature of Use</u>
61-10378	YES	YES	YES	NO	NO	NO
61-2154	YES	YES	YES	NO	NO	NO
61-2155	YES	YES	YES	NO	NO	NO
61-7005	YES	YES	YES	NO	NO	NO
61-7119	YES	YES	YES	NO	NO	NO
61-7396	YES	YES	YES	NO	NO	NO

Summary Of Water Rights After the Approved Change

<u>Existing Right</u>	<u>New No. (Changed Portion)</u>	<u>Transfer Rate</u>	<u>Transfer Volume</u>	<u>Acre Limit</u>	<u>Total Acres</u>	<u>New No. (remaining portion)</u>	<u>Remaining Rate</u>	<u>Remaining Volume</u>	<u>Remaining Acre Limit</u>	<u>Remaining Total Acres</u>
61-10378	61-12283	0.240 cfs	N/A	14.0	765.0	61-10378	0.560 cfs	N/A	33.0	1459.0
61-2154	61-12284	1.620 cfs	324.0 af	81.0	765.0	61-2154	3.820 cfs	764.0 af	191.0	1459.0
61-2155	61-12285	1.730 cfs	364.0 af	91.0	765.0	61-2155	4.130 cfs	868.0 af	217.0	1459.0
61-7005	61-12281	1.560 cfs	380.0 af	95.0	765.0	61-7005	3.680 cfs	900.0 af	225.0	1459.0
61-7119	61-12280	1.560 cfs	312.0 af	78.0	765.0	61-7119	3.680 cfs	736.0 af	184.0	1459.0
61-7396	61-12282	0.650 cfs	188.0 af	47.0	765.0	61-7396	1.550 cfs	452.0 af	113.0	1459.0
COMBINED TOTALS		5.560 cfs	1476.0 af	369.0	765.0		13.18 cfs	3500 af	875.0	1459.0

SUPPORT DATA

IN FILE # 61-2154

Transfer No. 78356

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

TRANSFER OF WATER RIGHT
TRANSFER NO. 78356

This water right(s) is subject to all prior water rights and shall be administered in accordance with Idaho law and applicable rules of the Department of Water Resources. Detailed Water Right Description(s) attached.

Dated this 21st day of January, 2016.

for 
Chief, Water Allocation Bureau



WATER RIGHT NO. 61-7119**As Modified by Transfer No. 78356**

In accordance with the approval of Transfer No. 78356, Water Right No. 61-7119 is now described as follows:

Right Holder: BERNARD L BROWN AND/OR
NORMA JEAN BROWN
655 E 19TH N
MOUNTAIN HOME, ID 83647

Priority Date: 7/10/1972

Source: GROUND WATER

<u>BENEFICIAL USE</u>	<u>From</u>	<u>To</u>	<u>Diversion Rate</u>	<u>Diversion Volume</u>
IRRIGATION	03/15	to 11/15	3.680 cfs 3.680 cfs	736.0 af 736.0 af

LOCATION OF POINT(S) OF DIVERSION

GROUND WATER	SESESE	Sec 18 Twp 04S Rge 06E	ELMORE County
GROUND WATER	L1 (SENWNW)	Sec 19 Twp 04S Rge 06E	ELMORE County
GROUND WATER	SWNESW	Sec 19 Twp 04S Rge 06E	ELMORE County
GROUND WATER	NWSENE	Sec 20 Twp 04S Rge 06E	ELMORE County
GROUND WATER	SWNWNW	Sec 20 Twp 04S Rge 06E	ELMORE County

PLACE OF USE: IRRIGATION

			NE				NW				SW				SE				Totals
Twp	Rng	Sec	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
04S	06E	17											40.0	40.0					80.0
04S	06E	18							43.0	40.0					40.0	40.0	40.0	40.0	243.0
									L 2										
04S	06E	19	40.0	40.0	40.0	40.0	40.0	44.0	44.0	40.0	40.0	44.0	44.0	40.0	40.0	40.0	40.0	40.0	656.0
								L 1	L 2			L 3	L 4						
04S	06E	20	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0					40.0	40.0	40.0	40.0	480.0

Right Acre Limit: 184.0
POU Total Acres: 1459.0

CONDITIONS OF APPROVAL

1. Pursuant to Section 42-1412(6), Idaho Code, this water right is subject to such general provisions necessary for the definition of the rights or for the efficient administration of water rights as may be determined by the Snake River Basin Adjudication court at a point in time no later than the entry of the final unified decree.
2. This right is limited to the irrigation of 184 acres within the place of use described above in a single irrigation season.

Transfer No. 78356

WATER RIGHT NO. 61-7119

As Modified by Transfer No. 78356

CONDITIONS OF APPROVAL

3. Rights 61-2154, 61-7119, 61-7396 and 61-10378 when combined shall not exceed a total diversion rate of 5.70 cfs and the irrigation of 433 acres.
4. Rights 61-2154, 61-7005, 61-7119, 61-7396 and 61-10378 when combined shall not exceed a total diversion rate of 9.06 cfs, a total annual maximum diversion volume of 2632 af at the field headgate, and the irrigation of 658 acres.
5. Rights 61-2154, 61-2155, 61-7005, 61-7119, 61-7396 and 61-10378 when combined shall not exceed a total diversion rate of 13.18 cfs, a total annual maximum diversion volume of 3500 af at the field headgate, and the irrigation of 875 acres.
6. This right when combined with all other rights shall provide no more than 0.02 cfs per acre nor more than 4.0 afa per acre at the field headgate for irrigation of the lands above.
7. This right is for the use of trust water and is subject to review 5 years after the issuance of this transfer to determine availability of water and to re-evaluate the public interest.
8. Prior to diversion of water under this approval, the right holder shall provide a means of measurement acceptable to the Department from all authorized points of diversion which will allow determination of the total rate of diversion.
9. After specific notification by the Department, the right holder shall record the quantity of water diverted or shall enter into an agreement with the Department to determine the amount of water diverted from power records and shall annually report the information to the Department.
10. The following rights are diverted through points of diversion described above: 61-2154, 61-2155, 61-7005, 61-7119, 61-7396 and 61-10378.

WATER RIGHT NO. 61-12280**As Modified by Transfer No. 78356**

In accordance with the approval of Transfer No. 78356, Water Right No. 61-12280 is now described as follows:

Right Holder: SHEKINAH INDUSTRIES INC
ATTN: MICHAEL PRESTON
420 BITTERROOT DR
BOISE, ID 83709

Priority Date: 7/10/1972

Source: GROUND WATER

<u>BENEFICIAL USE</u>	<u>From</u>	<u>To</u>	<u>Diversion Rate</u>	<u>Diversion Volume</u>
IRRIGATION	03/15	to 11/15	1.560 cfs	312.0 af
			1.560 cfs	312.0 af

LOCATION OF POINT(S) OF DIVERSION

GROUND WATER	NWSW	Sec 14 Twp 01S Rge 04E	ELMORE County
GROUND WATER	NESE	Sec 23 Twp 01S Rge 04E	ELMORE County
GROUND WATER	NWSE	Sec 23 Twp 01S Rge 04E	ELMORE County
GROUND WATER	SESE	Sec 23 Twp 01S Rge 04E	ELMORE County
GROUND WATER	SWSE	Sec 23 Twp 01S Rge 04E	ELMORE County
GROUND WATER	NESW	Sec 24 Twp 01S Rge 04E	ELMORE County
GROUND WATER	NESW	Sec 14 Twp 01S Rge 04E	ELMORE County
GROUND WATER	SESW	Sec 14 Twp 01S Rge 04E	ELMORE County
GROUND WATER	SWSW	Sec 14 Twp 01S Rge 04E	ELMORE County
GROUND WATER	NWNE	Sec 23 Twp 01S Rge 04E	ELMORE County
GROUND WATER	SWNE	Sec 23 Twp 01S Rge 04E	ELMORE County
GROUND WATER	NWSW	Sec 24 Twp 01S Rge 04E	ELMORE County
GROUND WATER	SESW	Sec 24 Twp 01S Rge 04E	ELMORE County
GROUND WATER	SWSW	Sec 24 Twp 01S Rge 04E	ELMORE County
GROUND WATER	NENW	Sec 23 Twp 01S Rge 04E	ELMORE County
GROUND WATER	NWNW	Sec 23 Twp 01S Rge 04E	ELMORE County
GROUND WATER	SENW	Sec 23 Twp 01S Rge 04E	ELMORE County
GROUND WATER	SWNW	Sec 23 Twp 01S Rge 04E	ELMORE County
GROUND WATER	NESW	Sec 23 Twp 01S Rge 04E	ELMORE County
GROUND WATER	NWSW	Sec 23 Twp 01S Rge 04E	ELMORE County
GROUND WATER	SESW	Sec 23 Twp 01S Rge 04E	ELMORE County
GROUND WATER	SWSW	Sec 23 Twp 01S Rge 04E	ELMORE County

PLACE OF USE: IRRIGATION

			NE				NW				SW				SE				Totals
Twp	Rng	Sec	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
01S	04E	14									40.0	40.0	40.0	40.0					160.0
01S	04E	23		7.0	7.0		40.0	22.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	476.0
01S	04E	24									12.0	40.0	40.0	37.0					129.0

Right Acre Limit: 78.0

POU Total Acres: 765.0

Transfer No. 78356

WATER RIGHT NO. 61-12280
As Modified by Transfer No. 78356

CONDITIONS OF APPROVAL

1. The right holder shall accomplish the change authorized by this transfer within five years of the date of this approval.
2. Failure of the right holder to comply with the conditions of this transfer is cause for the Director to rescind approval of the transfer.
3. Pursuant to Section 42-1412(6), Idaho Code, this water right is subject to such general provisions necessary for the definition of the rights or for the efficient administration of water rights as may be determined by the Snake River Basin Adjudication court at a point in time no later than the entry of the final unified decree.
4. This right does not grant any right-of-way or easement across the land of another.
5. Right holder shall comply with the drilling permit requirements of Section 42-235, Idaho Code and applicable Well Construction Rules of the Department.
6. Prior to diversion and use of water under this right, the right holder shall install a flow measurement and volume totalizing device of a type approved by the Department on each point of diversion to measure flow and volume of water diverted.
7. The right holder shall install or construct a straight length of conduit or ditch suitable for installation of a device for measuring the entire flow of water being diverted in connection with this right. If the right holder uses conduit, the straight length of conduit shall be at least fifteen times the diameter of the conduit and shall be above ground or otherwise easily accessible.
8. The diversion and use of water described in Transfer 78356 may be subject to additional conditions and limitations agreed to by the protestant and the right holder under a separate agreement to which the Department is not a party. Because the Department is not a party, the Department is not responsible for enforcement of any aspect of the agreement not specifically addressed in other conditions herein. Enforcement of those portions of the agreement not specifically addressed in other conditions shall be the responsibility of the protestant and the water right holder.
9. Diversion and use of water in connection with this right is subject to a Monitoring-Reporting Plan. The right holder shall provide the Department with a plan for monitoring-reporting aquifer levels, diversion flow rates, and volumes. The monitoring-reporting should occur in parallel with land development and production and should include identification of non-production wells and timelines for measuring and reporting. The right holder shall not divert water in connection with this right until the plan is approved by the Department. Failure to comply with the plan once it is accepted shall be cause for the Department to cancel or revoke the right.
10. Water rights 61-12280, 61-12281, 61-12282, 61-12283, 61-12284 and 61-12285 shall be subordinated to 61-12090 in the event of priority administration of water rights with points of diversion within administrative Basin 61.
11. Water rights 61-12280, 61-12281, 61-12282, 61-12283, 61-12284 and 61-12285 shall be subordinated to 63-32499 in the event of priority administration of water rights with points of diversion within administrative Basin 63.

WATER RIGHT NO. 61-12280
As Modified by Transfer No. 78356

CONDITIONS OF APPROVAL

12. This right is limited to the irrigation of 78 acres within the authorized place of use in a single irrigation season.
13. Rights 61-12280, 61-12282, 61-12283 and 61-12284 when combined shall not exceed a total diversion rate of 2.40 cfs and the irrigation of 183 acres.
14. Rights 61-12280, 61-12281, 61-12282, 61-12283 and 61-12284 when combined shall not exceed a total diversion rate of 3.82 cfs, a total annual maximum diversion volume of 1112 af at the field headgate, and the irrigation of 278 acres.
15. Rights 61-12280, 61-12281, 61-12282, 61-12283, 61-12284 and 61-12285 when combined shall not exceed a total diversion rate of 5.56 cfs, a total annual maximum diversion volume of 1476 af, a total annual maximum consumptive use volume of 1092 af, and the irrigation of 369 acres in a single irrigation season.
16. This right when combined with all other rights shall provide no more than 0.02 cfs per acre nor more than 4.0 afa per acre at the field headgate for irrigation of the place of use.
17. The following rights are diverted through points of diversion described above: 61-12280, 61-12281, 61-12282, 61-12283, 61-12284 and 61-12285.

WATER RIGHT NO. 61-7005**As Modified by Transfer No. 78356**

In accordance with the approval of Transfer No. 78356, Water Right No. 61-7005 is now described as follows:

Right Holder: BROWN FARMS LLC
764 N TROUTNER WAY
BOISE, ID 83712

Priority Date: 8/23/1967

Source: GROUND WATER

<u>BENEFICIAL USE</u>	<u>From</u>	<u>To</u>	<u>Diversion Rate</u>	<u>Diversion Volume</u>
IRRIGATION	3/01	to 10/15	3 680 cfs 3 680 cfs	900.0 af 900.0 af

LOCATION OF POINT(S) OF DIVERSION

GROUND WATER	SESESE	Sec 18 Twp 04S Rge 06E	ELMORE County
GROUND WATER	L1 (SENWNW)	Sec 19 Twp 04S Rge 06E	ELMORE County
GROUND WATER	SWNESW	Sec 19 Twp 04S Rge 06E	ELMORE County
GROUND WATER	NWSENE	Sec 20 Twp 04S Rge 06E	ELMORE County
GROUND WATER	SWNWNW	Sec 20 Twp 04S Rge 06E	ELMORE County

PLACE OF USE: IRRIGATION

			NE				NW				SW				SE				Totals
Twp	Rng	Sec	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
04S	06E	17											40.0	40.0					80.0
04S	06E	18							43.0	40.0					40.0	40.0	40.0	40.0	243.0
									L 2										
04S	06E	19	40.0	40.0	40.0	40.0	40.0	44.0	44.0	40.0	40.0	44.0	44.0	40.0	40.0	40.0	40.0	40.0	656.0
								L 1	L 2			L 3	L 4						
04S	06E	20	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0					40.0	40.0	40.0	40.0	480.0

Right Acre Limit: 225.0

POU Total Acres: 1459.0

CONDITIONS OF APPROVAL

1. Pursuant to Section 42-1412(6), Idaho Code, this water right is subject to such general provisions necessary for the definition of the rights or for the efficient administration of water rights as may be determined by the Snake River Basin Adjudication court at a point in time no later than the entry of the final unified decree.
2. This right is limited to the irrigation of 225 acres within the place of use described above in a single irrigation season.

Transfer No. 78356

WATER RIGHT NO. 61-7005

As Modified by Transfer No. 78356

CONDITIONS OF APPROVAL

3. Rights 61-2154, 61-7005, 61-7396 and 61-10378 when combined shall not exceed a total diversion rate of 9.06 cfs, a total annual maximum diversion volume of 2248 af at the field headgate, and the irrigation of 562 acres.
4. Rights 61-2154, 61-7005, 61-7119, 61-7396 and 61-10378 when combined shall not exceed a total diversion rate of 9.06 cfs, a total annual maximum diversion volume of 2632 af at the field headgate, and the irrigation of 658 acres.
5. Rights 61-2154, 61-2155, 61-7005, 61-7119, 61-7396 and 61-10378 when combined shall not exceed a total diversion rate of 13.18 cfs, a total annual maximum diversion volume of 3500 af at the field headgate, and the irrigation of 875 acres.
6. This right when combined with all other rights shall provide no more than 0.02 cfs per acre nor more than 4.0 afa per acre at the field headgate for irrigation of the lands above.
7. Prior to diversion of water under this approval, the right holder shall provide a means of measurement acceptable to the Department from all authorized points of diversion which will allow determination of the total rate of diversion.
8. After specific notification by the Department, the right holder shall record the quantity of water diverted or shall enter into an agreement with the Department to determine the amount of water diverted from power records and shall annually report the information to the Department.
9. The period of use for the irrigation described in this approval may be extended to an ending date of 11/15 provided that beneficial use of the water can be shown and other elements of the right are not exceeded. The use of water after 10/15 is subordinate to all water rights having no subordinated early or late irrigation use and a priority date earlier than 2/27/2003.
10. The following rights are diverted through points of diversion described above: 61-2154, 61-2155, 61-7005, 61-7119, 61-7396 and 61-10378.

WATER RIGHT NO. 61-12281**As Modified by Transfer No. 78356**

In accordance with the approval of Transfer No. 78356, Water Right No. 61-12281 is now described as follows:

Right Holder: SHEKINAH INDUSTRIES INC
ATTN: MICHAEL PRESTON
420 BITTERROOT DR
BOISE, ID 83709

Priority Date: 8/23/1967

Source: GROUND WATER

<u>BENEFICIAL USE</u>	<u>From</u>	<u>To</u>	<u>Diversion Rate</u>	<u>Diversion Volume</u>
IRRIGATION	3/01	to 10/15	1.560 cfs	380.0 af
			1.560 cfs	380.0 af

LOCATION OF POINT(S) OF DIVERSION

GROUND WATER	NWSW	Sec 14 Twp 01S Rge 04E	ELMORE County
GROUND WATER	NESE	Sec 23 Twp 01S Rge 04E	ELMORE County
GROUND WATER	NWSE	Sec 23 Twp 01S Rge 04E	ELMORE County
GROUND WATER	SESE	Sec 23 Twp 01S Rge 04E	ELMORE County
GROUND WATER	SWSE	Sec 23 Twp 01S Rge 04E	ELMORE County
GROUND WATER	NESW	Sec 24 Twp 01S Rge 04E	ELMORE County
GROUND WATER	NESW	Sec 14 Twp 01S Rge 04E	ELMORE County
GROUND WATER	SESW	Sec 14 Twp 01S Rge 04E	ELMORE County
GROUND WATER	SWSW	Sec 14 Twp 01S Rge 04E	ELMORE County
GROUND WATER	NWNE	Sec 23 Twp 01S Rge 04E	ELMORE County
GROUND WATER	SWNE	Sec 23 Twp 01S Rge 04E	ELMORE County
GROUND WATER	NWSW	Sec 24 Twp 01S Rge 04E	ELMORE County
GROUND WATER	SESW	Sec 24 Twp 01S Rge 04E	ELMORE County
GROUND WATER	SWSW	Sec 24 Twp 01S Rge 04E	ELMORE County
GROUND WATER	NENW	Sec 23 Twp 01S Rge 04E	ELMORE County
GROUND WATER	NWNW	Sec 23 Twp 01S Rge 04E	ELMORE County
GROUND WATER	SENW	Sec 23 Twp 01S Rge 04E	ELMORE County
GROUND WATER	SWNW	Sec 23 Twp 01S Rge 04E	ELMORE County
GROUND WATER	NESW	Sec 23 Twp 01S Rge 04E	ELMORE County
GROUND WATER	NWSW	Sec 23 Twp 01S Rge 04E	ELMORE County
GROUND WATER	SESW	Sec 23 Twp 01S Rge 04E	ELMORE County
GROUND WATER	SWSW	Sec 23 Twp 01S Rge 04E	ELMORE County

PLACE OF USE: IRRIGATION

			NE				NW				SW				SE				Totals
Twp	Rng	Sec	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
01S	04E	14									40.0	40.0	40.0	40.0					160.0
01S	04E	23		7.0	7.0		40.0	22.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	476.0
01S	04E	24									12.0	40.0	40.0	37.0					129.0

Right Acre Limit: 95.0

POU Total Acres: 765.0

Transfer No. 78356

WATER RIGHT NO. 61-12281

As Modified by Transfer No. 78356

CONDITIONS OF APPROVAL

1. The right holder shall accomplish the change authorized by this transfer within five years of the date of this approval.
2. Failure of the right holder to comply with the conditions of this transfer is cause for the Director to rescind approval of the transfer.
3. Pursuant to Section 42-1412(6), Idaho Code, this water right is subject to such general provisions necessary for the definition of the rights or for the efficient administration of water rights as may be determined by the Snake River Basin Adjudication court at a point in time no later than the entry of the final unified decree.
4. This right does not grant any right-of-way or easement across the land of another.
5. Right holder shall comply with the drilling permit requirements of Section 42-235, Idaho Code and applicable Well Construction Rules of the Department.
6. Prior to diversion and use of water under this right, the right holder shall install a flow measurement and volume totalizing device of a type approved by the Department on each point of diversion to measure flow and volume of water diverted.
7. The right holder shall install or construct a straight length of conduit or ditch suitable for installation of a device for measuring the entire flow of water being diverted in connection with this right. If the right holder uses conduit, the straight length of conduit shall be at least fifteen times the diameter of the conduit and shall be above ground or otherwise easily accessible.
8. The diversion and use of water described in Transfer 78356 may be subject to additional conditions and limitations agreed to by the protestant and the right holder under a separate agreement to which the Department is not a party. Because the Department is not a party, the Department is not responsible for enforcement of any aspect of the agreement not specifically addressed in other conditions herein. Enforcement of those portions of the agreement not specifically addressed in other conditions shall be the responsibility of the protestant and the water right holder.
9. Diversion and use of water in connection with this right is subject to a Monitoring-Reporting Plan. The right holder shall provide the Department with a plan for monitoring-reporting aquifer levels, diversion flow rates, and volumes. The monitoring-reporting should occur in parallel with land development and production and should include identification of non-production wells and timelines for measuring and reporting. The right holder shall not divert water in connection with this right until the plan is approved by the Department. Failure to comply with the plan once it is accepted shall be cause for the Department to cancel or revoke the right.
10. Water rights 61-12280, 61-12281, 61-12282, 61-12283, 61-12284 and 61-12285 shall be subordinated to 61-12090 in the event of priority administration of water rights with points of diversion within administrative Basin 61.
11. Water rights 61-12280, 61-12281, 61-12282, 61-12283, 61-12284 and 61-12285 shall be subordinated to 63-32499 in the event of priority administration of water rights with points of diversion within administrative Basin 63.

WATER RIGHT NO. 61-12281

As Modified by Transfer No. 78356

CONDITIONS OF APPROVAL

12. This right is limited to the irrigation of 95 acres within the authorized place of use in a single irrigation season.
13. Rights 61-12281, 61-12282, 61-12283 and 61-12284 when combined shall not exceed a total diversion rate of 3.82 cfs, a total annual maximum diversion volume of 948 af at the field headgate, and the irrigation of 237 acres.
14. Rights 61-12280, 61-12281, 61-12282, 61-12283 and 61-12284 when combined shall not exceed a total diversion rate of 3.82 cfs, a total annual maximum diversion volume of 1112 af at the field headgate, and the irrigation of 278 acres.
15. Rights 61-12280, 61-12281, 61-12282, 61-12283, 61-12284 and 61-12285 when combined shall not exceed a total diversion rate of 5.56 cfs, a total annual maximum diversion volume of 1476 af, a total annual maximum consumptive use volume of 1092 af, and the irrigation of 369 acres in a single irrigation season.
16. This right when combined with all other rights shall provide no more than 0.02 cfs per acre nor more than 4.0 afa per acre at the field headgate for irrigation of the place of use.
17. The following rights are diverted through points of diversion described above: 61-12280, 61-12281, 61-12282, 61-12283, 61-12284 and 61-12285.

WATER RIGHT NO. 61-7396**As Modified by Transfer No. 78356**

In accordance with the approval of Transfer No. 78356, Water Right No. 61-7396 is now described as follows:

Right Holder: BROWN FARMS LLC
764 N TROUTNER WAY
BOISE, ID 83712

Priority Date: 1/4/1980

Source: GROUND WATER

<u>BENEFICIAL USE</u>	<u>From</u>	<u>To</u>	<u>Diversion Rate</u>	<u>Diversion Volume</u>
IRRIGATION	3/15	to 11/15	1.550 cfs	452.0 af
			1.550 cfs	452.0 af

LOCATION OF POINT(S) OF DIVERSION

GROUND WATER	SESESE	Sec 18 Twp 04S Rge 06E	ELMORE County
GROUND WATER	L1 (SENWNW)	Sec 19 Twp 04S Rge 06E	ELMORE County
GROUND WATER	SWNESW	Sec 19 Twp 04S Rge 06E	ELMORE County
GROUND WATER	NWSENE	Sec 20 Twp 04S Rge 06E	ELMORE County
GROUND WATER	SWNWNW	Sec 20 Twp 04S Rge 06E	ELMORE County

PLACE OF USE: IRRIGATION

			NE				NW				SW				SE				Totals
Twp	Rng	Sec	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
04S	06E	17											40.0	40.0					80.0
04S	06E	18							43.0	40.0					40.0	40.0	40.0	40.0	243.0
									L 2										
04S	06E	19	40.0	40.0	40.0	40.0	40.0	44.0	44.0	40.0	40.0	44.0	44.0	40.0	40.0	40.0	40.0	40.0	656.0
								L 1	L 2			L 3	L 4						
04S	06E	20	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0					40.0	40.0	40.0	40.0	480.0

Right Acre Limit: 113.0

POU Total Acres: 1459.0

CONDITIONS OF APPROVAL

1. Pursuant to Section 42-1412(6), Idaho Code, this water right is subject to such general provisions necessary for the definition of the rights or for the efficient administration of water rights as may be determined by the Snake River Basin Adjudication court at a point in time no later than the entry of the final unified decree.
2. This right is limited to the irrigation of 113 acres within the place of use described above in a single irrigation season.
3. Rights 61-2154, 61-7119, 61-7396 and 61-10378 when combined shall not exceed a total diversion rate of 5.70 cfs and the irrigation of 433 acres.

Transfer No. 78356

WATER RIGHT NO. 61-7396

As Modified by Transfer No. 78356

CONDITIONS OF APPROVAL

4. Rights 61-2154, 61-7005, 61-7396 and 61-10378 when combined shall not exceed a total diversion rate of 9.06 cfs, a total annual maximum diversion volume of 2248 af at the field headgate, and the irrigation of 562 acres.
5. Rights 61-2154, 61-7005, 61-7119, 61-7396 and 61-10378 when combined shall not exceed a total diversion rate of 9.06 cfs, a total annual maximum diversion volume of 2632 af at the field headgate, and the irrigation of 658 acres.
6. Rights 61-2154, 61-2155, 61-7005, 61-7119, 61-7396 and 61-10378 when combined shall not exceed a total diversion rate of 13.18 cfs, a total annual maximum diversion volume of 3500 af at the field headgate, and the irrigation of 875 acres.
7. This right when combined with all other rights shall provide no more than 0.02 cfs per acre nor more than 4.0 afa per acre at the field headgate for irrigation of the lands above.
8. Prior to diversion of water under this approval, the right holder shall provide a means of measurement acceptable to the Department from all authorized points of diversion which will allow determination of the total rate of diversion.
9. After specific notification by the Department, the right holder shall record the quantity of water diverted or shall enter into an agreement with the Department to determine the amount of water diverted from power records and shall annually report the information to the Department.
10. The following rights are diverted through points of diversion described above: 61-2154, 61-2155, 61-7005, 61-7119, 61-7396 and 61-10378.

WATER RIGHT NO. 61-12282**As Modified by Transfer No. 78356**

In accordance with the approval of Transfer No. 78356, Water Right No. 61-12282 is now described as follows:

Right Holder: SHEKINAH INDUSTRIES INC
ATTN: MICHAEL PRESTON
420 BITTERROOT DR
BOISE, ID 83709

Priority Date: 1/4/1980

Source: GROUND WATER

<u>BENEFICIAL USE</u>	<u>From</u>	<u>To</u>	<u>Diversion Rate</u>	<u>Diversion Volume</u>
IRRIGATION	3/15	to 11/15	0.650 cfs	188.0 af
			0.650 cfs	188.0 af

LOCATION OF POINT(S) OF DIVERSION

GROUND WATER	NWSW	Sec 14 Twp 01S Rge 04E	ELMORE County
GROUND WATER	NESE	Sec 23 Twp 01S Rge 04E	ELMORE County
GROUND WATER	NWSE	Sec 23 Twp 01S Rge 04E	ELMORE County
GROUND WATER	SESE	Sec 23 Twp 01S Rge 04E	ELMORE County
GROUND WATER	SWSE	Sec 23 Twp 01S Rge 04E	ELMORE County
GROUND WATER	NESW	Sec 24 Twp 01S Rge 04E	ELMORE County
GROUND WATER	NESW	Sec 14 Twp 01S Rge 04E	ELMORE County
GROUND WATER	SESW	Sec 14 Twp 01S Rge 04E	ELMORE County
GROUND WATER	SWSW	Sec 14 Twp 01S Rge 04E	ELMORE County
GROUND WATER	NWNE	Sec 23 Twp 01S Rge 04E	ELMORE County
GROUND WATER	SWNE	Sec 23 Twp 01S Rge 04E	ELMORE County
GROUND WATER	NWSW	Sec 24 Twp 01S Rge 04E	ELMORE County
GROUND WATER	SESW	Sec 24 Twp 01S Rge 04E	ELMORE County
GROUND WATER	SWSW	Sec 24 Twp 01S Rge 04E	ELMORE County
GROUND WATER	NENW	Sec 23 Twp 01S Rge 04E	ELMORE County
GROUND WATER	NWNW	Sec 23 Twp 01S Rge 04E	ELMORE County
GROUND WATER	SENW	Sec 23 Twp 01S Rge 04E	ELMORE County
GROUND WATER	SWNW	Sec 23 Twp 01S Rge 04E	ELMORE County
GROUND WATER	NESW	Sec 23 Twp 01S Rge 04E	ELMORE County
GROUND WATER	NWSW	Sec 23 Twp 01S Rge 04E	ELMORE County
GROUND WATER	SESW	Sec 23 Twp 01S Rge 04E	ELMORE County
GROUND WATER	SWSW	Sec 23 Twp 01S Rge 04E	ELMORE County

PLACE OF USE: IRRIGATION

			NE				NW				SW				SE				Totals
Twp	Rng	Sec	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
01S	04E	14									40.0	40.0	40.0	40.0					160.0
01S	04E	23		7.0	7.0		40.0	22.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	476.0
01S	04E	24									12.0	40.0	40.0	37.0					129.0

Right Acre Limit: 47.0

POU Total Acres: 765.0

Transfer No. 78356

WATER RIGHT NO. 61-12282

As Modified by Transfer No. 78356

CONDITIONS OF APPROVAL

1. The right holder shall accomplish the change authorized by this transfer within five years of the date of this approval.
2. Failure of the right holder to comply with the conditions of this transfer is cause for the Director to rescind approval of the transfer.
3. Pursuant to Section 42-1412(6), Idaho Code, this water right is subject to such general provisions necessary for the definition of the rights or for the efficient administration of water rights as may be determined by the Snake River Basin Adjudication court at a point in time no later than the entry of the final unified decree.
4. This right does not grant any right-of-way or easement across the land of another.
5. Right holder shall comply with the drilling permit requirements of Section 42-235, Idaho Code and applicable Well Construction Rules of the Department.
6. Prior to diversion and use of water under this right, the right holder shall install a flow measurement and volume totalizing device of a type approved by the Department on each point of diversion to measure flow and volume of water diverted.
7. The right holder shall install or construct a straight length of conduit or ditch suitable for installation of a device for measuring the entire flow of water being diverted in connection with this right. If the right holder uses conduit, the straight length of conduit shall be at least fifteen times the diameter of the conduit and shall be above ground or otherwise easily accessible.
8. The diversion and use of water described in Transfer 78356 may be subject to additional conditions and limitations agreed to by the protestant and the right holder under a separate agreement to which the Department is not a party. Because the Department is not a party, the Department is not responsible for enforcement of any aspect of the agreement not specifically addressed in other conditions herein. Enforcement of those portions of the agreement not specifically addressed in other conditions shall be the responsibility of the protestant and the water right holder.
9. Diversion and use of water in connection with this right is subject to a Monitoring-Reporting Plan. The right holder shall provide the Department with a plan for monitoring-reporting aquifer levels, diversion flow rates, and volumes. The monitoring-reporting should occur in parallel with land development and production and should include identification of non-production wells and timelines for measuring and reporting. The right holder shall not divert water in connection with this right until the plan is approved by the Department. Failure to comply with the plan once it is accepted shall be cause for the Department to cancel or revoke the right.
10. Water rights 61-12280, 61-12281, 61-12282, 61-12283, 61-12284 and 61-12285 shall be subordinated to 61-12090 in the event of priority administration of water rights with points of diversion within administrative Basin 61.
11. Water rights 61-12280, 61-12281, 61-12282, 61-12283, 61-12284 and 61-12285 shall be subordinated to 63-32499 in the event of priority administration of water rights with points of diversion within administrative Basin 63.

WATER RIGHT NO. 61-12282
As Modified by Transfer No. 78356

CONDITIONS OF APPROVAL

12. This right is limited to the irrigation of 47 acres within the authorized place of use in a single irrigation season.
13. Rights 61-12280, 61-12282, 61-12283 and 61-12284 when combined shall not exceed a total diversion rate of 2.40 cfs and the irrigation of 183 acres.
14. Rights 61-12281, 61-12282, 61-12283 and 61-12284 when combined shall not exceed a total diversion rate of 3.82 cfs, a total annual maximum diversion volume of 948 af at the field headgate, and the irrigation of 237 acres.
15. Rights 61-12280, 61-12281, 61-12282, 61-12283 and 61-12284 when combined shall not exceed a total diversion rate of 3.82 cfs, a total annual maximum diversion volume of 1112 af at the field headgate, and the irrigation of 278 acres.
16. Rights 61-12280, 61-12281, 61-12282, 61-12283, 61-12284 and 61-12285 when combined shall not exceed a total diversion rate of 5.56 cfs, a total annual maximum diversion volume of 1476 af, a total annual maximum consumptive use volume of 1092 af, and the irrigation of 369 acres in a single irrigation season.
17. This right when combined with all other rights shall provide no more than 0.02 cfs per acre nor more than 4.0 afa per acre at the field headgate for irrigation of the place of use.
18. The following rights are diverted through points of diversion described above: 61-12280, 61-12281, 61-12282, 61-12283, 61-12284 and 61-12285.

WATER RIGHT NO. 61-10378**As Modified by Transfer No. 78356**

In accordance with the approval of Transfer No. 78356, Water Right No. 61-10378 is now described as follows:

Right Holder: BROWN FARMS LLC
764 N TROUTNER WAY
BOISE, ID 83712

Priority Date: 4/30/1974

Source: GROUND WATER

BENEFICIAL USE
IRRIGATION

From 03/15 **To** 11/15

Diversion Rate
0.560 cfs
0.560 cfs

LOCATION OF POINT(S) OF DIVERSION

GROUND WATER	SESESE	Sec 18 Twp 04S Rge 06E	ELMORE County
GROUND WATER	L1 (SENWNW)	Sec 19 Twp 04S Rge 06E	ELMORE County
GROUND WATER	SWNESW	Sec 19 Twp 04S Rge 06E	ELMORE County
GROUND WATER	NWSENE	Sec 20 Twp 04S Rge 06E	ELMORE County
GROUND WATER	SWNWNW	Sec 20 Twp 04S Rge 06E	ELMORE County

PLACE OF USE: IRRIGATION

			NE				NW				SW				SE				Totals
Twp	Rng	Sec	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
04S	06E	17											40.0	40.0					80.0
04S	06E	18							43.0	40.0					40.0	40.0	40.0	40.0	243.0
									L 2										
04S	06E	19	40.0	40.0	40.0	40.0	40.0	44.0	44.0	40.0	40.0	44.0	44.0	40.0	40.0	40.0	40.0	40.0	656.0
								L 1	L 2			L 3	L 4						
04S	06E	20	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0					40.0	40.0	40.0	40.0	480.0

Right Acre Limit: 33.0

POU Total Acres: 1459.0

CONDITIONS OF APPROVAL

1. Pursuant to Section 42-1412(6), Idaho Code, this water right is subject to such general provisions necessary for the definition of the rights or for the efficient administration of water rights as may be determined by the Snake River Basin Adjudication court at a point in time no later than the entry of the final unified decree.
2. Right 61-10378 is an enlargement of Right 61-2154 pursuant to Section 42-1426, Idaho Code.

Transfer No. 78356

WATER RIGHT NO. 61-10378

As Modified by Transfer No. 78356

CONDITIONS OF APPROVAL

3. This water right is subordinate to all water rights with a priority date earlier than April 12, 1994, that are not decreed as enlargements pursuant to Section 42-1426, Idaho Code. As between water rights decreed as enlargements pursuant to Section 42-1426, Idaho Code, the earlier priority right is the superior right.
4. This right is for an enlargement of 33 acres within the place of use described above.
5. Rights 61-2154 and 61-10378 when combined shall not exceed a total diversion rate of 3.83 cfs, a total annual maximum diversion volume of 896 af at the field headgate, and the irrigation of 224 acres.
6. Rights 61-2154, 61-7119, 61-7396 and 61-10378 when combined shall not exceed a total diversion rate of 5.70 cfs and the irrigation of 433 acres.
7. Rights 61-2154, 61-7005, 61-7396 and 61-10378 when combined shall not exceed a total diversion rate of 9.06 cfs, a total annual maximum diversion volume of 2248 af at the field headgate, and the irrigation of 562 acres.
8. Rights 61-2154, 61-7005, 61-7119, 61-7396 and 61-10378 when combined shall not exceed a total diversion rate of 9.06 cfs, a total annual maximum diversion volume of 2632 af at the field headgate, and the irrigation of 658 acres.
9. Rights 61-2154, 61-2155, 61-7005, 61-7119, 61-7396 and 61-10378 when combined shall not exceed a total diversion rate of 13.18 cfs, a total annual maximum diversion volume of 3500 af at the field headgate, and the irrigation of 875 acres.
10. This right when combined with all other rights shall provide no more than 0.02 cfs per acre nor more than 4.0 afa per acre at the field headgate for irrigation of the lands above.
11. Prior to diversion of water under this approval, the right holder shall provide a means of measurement acceptable to the Department from all authorized points of diversion which will allow determination of the total rate of diversion.
12. After specific notification by the Department, the right holder shall record the quantity of water diverted or shall enter into an agreement with the Department to determine the amount of water diverted from power records and shall annually report the information to the Department.
13. The following rights are diverted through points of diversion described above: 61-2154, 61-2155, 61-7005, 61-7119, 61-7396 and 61-10378.

WATER RIGHT NO. 61-12283**As Modified by Transfer No. 78356**

In accordance with the approval of Transfer No. 78356, Water Right No. 61-12283 is now described as follows:

Right Holder: SHEKINAH INDUSTRIES INC
ATTN: MICHAEL PRESTON
420 BITTERROOT DR
BOISE, ID 83709

Priority Date: 4/30/1974

Source: GROUND WATER

BENEFICIAL USE
IRRIGATION

From 03/15 **To** 11/15

Diversion Rate
0.240 cfs
0.240 cfs

LOCATION OF POINT(S) OF DIVERSION

GROUND WATER	NWSW	Sec 14 Twp 01S Rge 04E	ELMORE County
GROUND WATER	NESE	Sec 23 Twp 01S Rge 04E	ELMORE County
GROUND WATER	NWSE	Sec 23 Twp 01S Rge 04E	ELMORE County
GROUND WATER	SESE	Sec 23 Twp 01S Rge 04E	ELMORE County
GROUND WATER	SWSE	Sec 23 Twp 01S Rge 04E	ELMORE County
GROUND WATER	NESW	Sec 24 Twp 01S Rge 04E	ELMORE County
GROUND WATER	NESW	Sec 14 Twp 01S Rge 04E	ELMORE County
GROUND WATER	SESW	Sec 14 Twp 01S Rge 04E	ELMORE County
GROUND WATER	SWSW	Sec 14 Twp 01S Rge 04E	ELMORE County
GROUND WATER	NWNE	Sec 23 Twp 01S Rge 04E	ELMORE County
GROUND WATER	SWNE	Sec 23 Twp 01S Rge 04E	ELMORE County
GROUND WATER	NWSW	Sec 24 Twp 01S Rge 04E	ELMORE County
GROUND WATER	SESW	Sec 24 Twp 01S Rge 04E	ELMORE County
GROUND WATER	SWSW	Sec 24 Twp 01S Rge 04E	ELMORE County
GROUND WATER	NENW	Sec 23 Twp 01S Rge 04E	ELMORE County
GROUND WATER	NWNW	Sec 23 Twp 01S Rge 04E	ELMORE County
GROUND WATER	SENW	Sec 23 Twp 01S Rge 04E	ELMORE County
GROUND WATER	SWNW	Sec 23 Twp 01S Rge 04E	ELMORE County
GROUND WATER	NESW	Sec 23 Twp 01S Rge 04E	ELMORE County
GROUND WATER	NWSW	Sec 23 Twp 01S Rge 04E	ELMORE County
GROUND WATER	SESW	Sec 23 Twp 01S Rge 04E	ELMORE County
GROUND WATER	SWSW	Sec 23 Twp 01S Rge 04E	ELMORE County

PLACE OF USE: IRRIGATION

			NE				NW				SW				SE				Totals
Twp	Rng	Sec	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
01S	04E	14									40.0	40.0	40.0	40.0					160.0
01S	04E	23		7.0	7.0		40.0	22.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	476.0
01S	04E	24									12.0	40.0	40.0	37.0					129.0

Right Acre Limit: 14.0

POU Total Acres: 765.0

Transfer No. 78356

WATER RIGHT NO. 61-12283
As Modified by Transfer No. 78356

CONDITIONS OF APPROVAL

1. The right holder shall accomplish the change authorized by this transfer within five years of the date of this approval.
2. Failure of the right holder to comply with the conditions of this transfer is cause for the Director to rescind approval of the transfer.
3. Pursuant to Section 42-1412(6), Idaho Code, this water right is subject to such general provisions necessary for the definition of the rights or for the efficient administration of water rights as may be determined by the Snake River Basin Adjudication court at a point in time no later than the entry of the final unified decree.
4. This right does not grant any right-of-way or easement across the land of another.
5. Right holder shall comply with the drilling permit requirements of Section 42-235, Idaho Code and applicable Well Construction Rules of the Department.
6. Prior to diversion and use of water under this right, the right holder shall install a flow measurement and volume totalizing device of a type approved by the Department on each point of diversion to measure flow and volume of water diverted.
7. The right holder shall install or construct a straight length of conduit or ditch suitable for installation of a device for measuring the entire flow of water being diverted in connection with this right. If the right holder uses conduit, the straight length of conduit shall be at least fifteen times the diameter of the conduit and shall be above ground or otherwise easily accessible.
8. The diversion and use of water described in Transfer 78356 may be subject to additional conditions and limitations agreed to by the protestant and the right holder under a separate agreement to which the Department is not a party. Because the Department is not a party, the Department is not responsible for enforcement of any aspect of the agreement not specifically addressed in other conditions herein. Enforcement of those portions of the agreement not specifically addressed in other conditions shall be the responsibility of the protestant and the water right holder.
9. Diversion and use of water in connection with this right is subject to a Monitoring-Reporting Plan. The right holder shall provide the Department with a plan for monitoring-reporting aquifer levels, diversion flow rates, and volumes. The monitoring-reporting should occur in parallel with land development and production and should include identification of non-production wells and timelines for measuring and reporting. The right holder shall not divert water in connection with this right until the plan is approved by the Department. Failure to comply with the plan once it is accepted shall be cause for the Department to cancel or revoke the right.
10. Water rights 61-12280, 61-12281, 61-12282, 61-12283, 61-12284 and 61-12285 shall be subordinated to 61-12090 in the event of priority administration of water rights with points of diversion within administrative Basin 61.
11. Water rights 61-12280, 61-12281, 61-12282, 61-12283, 61-12284 and 61-12285 shall be subordinated to 63-32499 in the event of priority administration of water rights with points of diversion within administrative Basin 63.
12. This right is for an enlargement of 14 acres within the place of use described above.

WATER RIGHT NO. 61-12283

As Modified by Transfer No. 78356

CONDITIONS OF APPROVAL

13. Right 61-12283 is an enlargement of Right 61-12284 pursuant to Section 42-1426, Idaho Code.
14. This water right is subordinate to all water rights with a priority date earlier than April 12, 1994, that are not decreed as enlargements pursuant to Section 42-1426, Idaho Code. As between water rights decreed as enlargements pursuant to Section 42-1426, Idaho Code, the earlier priority right is the superior right.
15. Rights 61-12283 and 61-12284 when combined shall not exceed a total diversion rate of 1.61 cfs, a total annual maximum diversion volume of 380 af at the field headgate, and the irrigation of 95 acres.
16. Rights 61-12280, 61-12282, 61-12283 and 61-12284 when combined shall not exceed a total diversion rate of 2.40 cfs and the irrigation of 183 acres.
17. Rights 61-12281, 61-12282, 61-12283 and 61-12284 when combined shall not exceed a total diversion rate of 3.82 cfs, a total annual maximum diversion volume of 948 af at the field headgate, and the irrigation of 237 acres.
18. Rights 61-12280, 61-12281, 61-12282, 61-12283 and 61-12284 when combined shall not exceed a total diversion rate of 3.82 cfs, a total annual maximum diversion volume of 1112 af at the field headgate, and the irrigation of 278 acres.
19. Rights 61-12280, 61-12281, 61-12282, 61-12283, 61-12284 and 61-12285 when combined shall not exceed a total diversion rate of 5.56 cfs, a total annual maximum diversion volume of 1476 af, a total annual maximum consumptive use volume of 1092 af, and the irrigation of 369 acres in a single irrigation season.
20. This right when combined with all other rights shall provide no more than 0.02 cfs per acre nor more than 4.0 afa per acre at the field headgate for irrigation of the place of use.
21. The following rights are diverted through points of diversion described above: 61-12280, 61-12281, 61-12282, 61-12283, 61-12284 and 61-12285.

WATER RIGHT NO. 61-2154**As Modified by Transfer No. 78356**

In accordance with the approval of Transfer No. 78356, Water Right No. 61-2154 is now described as follows:

Right Holder: BROWN FARMS LLC
764 N TROUTNER WAY
BOISE, ID 83712

Priority Date: 1/14/1963

Source: GROUND WATER

<u>BENEFICIAL USE</u>	<u>From</u>	<u>To</u>	<u>Diversion Rate</u>	<u>Diversion Volume</u>
IRRIGATION	3/15	to 11/15	3.820 cfs	764.0 af
			3.820 cfs	764.0 af

LOCATION OF POINT(S) OF DIVERSION

GROUND WATER	SESESE	Sec 18 Twp 04S Rge 06E	ELMORE County
GROUND WATER	L1 (SENWNW)	Sec 19 Twp 04S Rge 06E	ELMORE County
GROUND WATER	SWNESW	Sec 19 Twp 04S Rge 06E	ELMORE County
GROUND WATER	NWSENE	Sec 20 Twp 04S Rge 06E	ELMORE County
GROUND WATER	SWNWNW	Sec 20 Twp 04S Rge 06E	ELMORE County

PLACE OF USE: IRRIGATION

			NE				NW				SW				SE				Totals
Twp	Rng	Sec	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
04S	06E	17											40.0	40.0					80.0
04S	06E	18							43.0	40.0					40.0	40.0	40.0	40.0	243.0
									L 2										
04S	06E	19	40.0	40.0	40.0	40.0	40.0	44.0	44.0	40.0	40.0	44.0	44.0	40.0	40.0	40.0	40.0	40.0	656.0
								L 1	L 2			L 3	L 4						
04S	06E	20	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0					40.0	40.0	40.0	40.0	480.0

Right Acre Limit: 191.0

POU Total Acres: 1459.0

CONDITIONS OF APPROVAL

1. Pursuant to Section 42-1412(6), Idaho Code, this water right is subject to such general provisions necessary for the definition of the rights or for the efficient administration of water rights as may be determined by the Snake River Basin Adjudication court at a point in time no later than the entry of the final unified decree.
2. This right is limited to the irrigation of 191 acres within the place of use described above in a single irrigation season.
3. Right 61-10378 is an enlargement of Right 61-2154 pursuant to Section 42-1426, Idaho Code.

Transfer No. 78356

WATER RIGHT NO. 61-2154
As Modified by Transfer No. 78356

CONDITIONS OF APPROVAL

4. Rights 61-2154 and 61-10378 when combined shall not exceed a total diversion rate of 3.83 cfs, a total annual maximum diversion volume of 896 af at the field headgate, and the irrigation of 224 acres.
5. Rights 61-2154, 61-7119, 61-7396 and 61-10378 when combined shall not exceed a total diversion rate of 5.70 cfs and the irrigation of 433 acres.
6. Rights 61-2154, 61-7005, 61-7396 and 61-10378 when combined shall not exceed a total diversion rate of 9.06 cfs, a total annual maximum diversion volume of 2248 af at the field headgate, and the irrigation of 562 acres.
7. Rights 61-2154, 61-7005, 61-7119, 61-7396 and 61-10378 when combined shall not exceed a total diversion rate of 9.06 cfs, a total annual maximum diversion volume of 2632 af at the field headgate, and the irrigation of 658 acres.
8. Rights 61-2154, 61-2155, 61-7005, 61-7119, 61-7396 and 61-10378 when combined shall not exceed a total diversion rate of 13.18 cfs, a total annual maximum diversion volume of 3500 af at the field headgate, and the irrigation of 875 acres.
9. This right when combined with all other rights shall provide no more than 0.02 cfs per acre nor more than 4.0 afa per acre at the field headgate for irrigation of the lands above.
10. Prior to diversion of water under this approval, the right holder shall provide a means of measurement acceptable to the Department from all authorized points of diversion which will allow determination of the total rate of diversion.
11. After specific notification by the Department, the right holder shall record the quantity of water diverted or shall enter into an agreement with the Department to determine the amount of water diverted from power records and shall annually report the information to the Department.
12. The following rights are diverted through points of diversion described above: 61-2154, 61-2155, 61-7005, 61-7119, 61-7396 and 61-10378.

WATER RIGHT NO. 61-12284**As Modified by Transfer No. 78356**

In accordance with the approval of Transfer No. 78356, Water Right No. 61-12284 is now described as follows:

Right Holder: SHEKINAH INDUSTRIES INC
ATTN: MICHAEL PRESTON
420 BITTERROOT DR
BOISE, ID 83709

Priority Date: 1/14/1963

Source: GROUND WATER

BENEFICIAL USE
IRRIGATION

From 3/15 **To** 11/15

Diversion Rate
1.620 cfs
1.620 cfs

Diversion Volume
324.0 af
324.0 af

LOCATION OF POINT(S) OF DIVERSION

GROUND WATER	NWSW	Sec 14 Twp 01S Rge 04E	ELMORE County
GROUND WATER	NESE	Sec 23 Twp 01S Rge 04E	ELMORE County
GROUND WATER	NWSE	Sec 23 Twp 01S Rge 04E	ELMORE County
GROUND WATER	SESE	Sec 23 Twp 01S Rge 04E	ELMORE County
GROUND WATER	SWSE	Sec 23 Twp 01S Rge 04E	ELMORE County
GROUND WATER	NESW	Sec 24 Twp 01S Rge 04E	ELMORE County
GROUND WATER	NESW	Sec 14 Twp 01S Rge 04E	ELMORE County
GROUND WATER	SESW	Sec 14 Twp 01S Rge 04E	ELMORE County
GROUND WATER	SWSW	Sec 14 Twp 01S Rge 04E	ELMORE County
GROUND WATER	NWNE	Sec 23 Twp 01S Rge 04E	ELMORE County
GROUND WATER	SWNE	Sec 23 Twp 01S Rge 04E	ELMORE County
GROUND WATER	NWSW	Sec 24 Twp 01S Rge 04E	ELMORE County
GROUND WATER	SESW	Sec 24 Twp 01S Rge 04E	ELMORE County
GROUND WATER	SWSW	Sec 24 Twp 01S Rge 04E	ELMORE County
GROUND WATER	NENW	Sec 23 Twp 01S Rge 04E	ELMORE County
GROUND WATER	NWNW	Sec 23 Twp 01S Rge 04E	ELMORE County
GROUND WATER	SENW	Sec 23 Twp 01S Rge 04E	ELMORE County
GROUND WATER	SWNW	Sec 23 Twp 01S Rge 04E	ELMORE County
GROUND WATER	NESW	Sec 23 Twp 01S Rge 04E	ELMORE County
GROUND WATER	NWSW	Sec 23 Twp 01S Rge 04E	ELMORE County
GROUND WATER	SESW	Sec 23 Twp 01S Rge 04E	ELMORE County
GROUND WATER	SWSW	Sec 23 Twp 01S Rge 04E	ELMORE County

PLACE OF USE: IRRIGATION

			NE				NW				SW				SE				Totals
Twp	Rng	Sec	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
01S	04E	14									40.0	40.0	40.0	40.0					160.0
01S	04E	23		7.0	7.0		40.0	22.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	476.0
01S	04E	24									12.0	40.0	40.0	37.0					129.0

Right Acre Limit: 81.0

POU Total Acres: 765.0

Transfer No. 78356

WATER RIGHT NO. 61-12284

As Modified by Transfer No. 78356

CONDITIONS OF APPROVAL

1. The right holder shall accomplish the change authorized by this transfer within five years of the date of this approval.
2. Failure of the right holder to comply with the conditions of this transfer is cause for the Director to rescind approval of the transfer.
3. Pursuant to Section 42-1412(6), Idaho Code, this water right is subject to such general provisions necessary for the definition of the rights or for the efficient administration of water rights as may be determined by the Snake River Basin Adjudication court at a point in time no later than the entry of the final unified decree.
4. Right holder shall comply with the drilling permit requirements of Section 42-235, Idaho Code and applicable Well Construction Rules of the Department.
5. This right does not grant any right-of-way or easement across the land of another.
6. Prior to diversion and use of water under this right, the right holder shall install a flow measurement and volume totalizing device of a type approved by the Department on each point of diversion to measure flow and volume of water diverted.
7. The right holder shall install or construct a straight length of conduit or ditch suitable for installation of a device for measuring the entire flow of water being diverted in connection with this right. If the right holder uses conduit, the straight length of conduit shall be at least fifteen times the diameter of the conduit and shall be above ground or otherwise easily accessible.
8. The diversion and use of water described in Transfer 78356 may be subject to additional conditions and limitations agreed to by the protestant and the right holder under a separate agreement to which the Department is not a party. Because the Department is not a party, the Department is not responsible for enforcement of any aspect of the agreement not specifically addressed in other conditions herein. Enforcement of those portions of the agreement not specifically addressed in other conditions shall be the responsibility of the protestant and the water right holder.
9. Diversion and use of water in connection with this right is subject to a Monitoring-Reporting Plan. The right holder shall provide the Department with a plan for monitoring-reporting aquifer levels, diversion flow rates, and volumes. The monitoring-reporting should occur in parallel with land development and production and should include identification of non-production wells and timelines for measuring and reporting. The right holder shall not divert water in connection with this right until the plan is approved by the Department. Failure to comply with the plan once it is accepted shall be cause for the Department to cancel or revoke the right.
10. Water rights 61-12280, 61-12281, 61-12282, 61-12283, 61-12284 and 61-12285 shall be subordinated to 61-12090 in the event of priority administration of water rights with points of diversion within administrative Basin 61.
11. Water rights 61-12280, 61-12281, 61-12282, 61-12283, 61-12284 and 61-12285 shall be subordinated to 63-32499 in the event of priority administration of water rights with points of diversion within administrative Basin 63.

WATER RIGHT NO. 61-12284
As Modified by Transfer No. 78356

CONDITIONS OF APPROVAL

12. This right is limited to the irrigation of 81 acres within the authorized place of use in a single irrigation season.
13. Right 61-12283 is an enlargement of Right 61-12284 pursuant to Section 42-1426, Idaho Code.
14. Rights 61-12283 and 61-12284 when combined shall not exceed a total diversion rate of 1.61 cfs, a total annual maximum diversion volume of 380 af at the field headgate, and the irrigation of 95 acres.
15. Rights 61-12280, 61-12282, 61-12283 and 61-12284 when combined shall not exceed a total diversion rate of 2.40 cfs and the irrigation of 183 acres.
16. Rights 61-12281, 61-12282, 61-12283 and 61-12284 when combined shall not exceed a total diversion rate of 3.82 cfs, a total annual maximum diversion volume of 948 af at the field headgate, and the irrigation of 237 acres.
17. Rights 61-12280, 61-12281, 61-12282, 61-12283 and 61-12284 when combined shall not exceed a total diversion rate of 3.82 cfs, a total annual maximum diversion volume of 1112 af at the field headgate, and the irrigation of 278 acres.
18. Rights 61-12280, 61-12281, 61-12282, 61-12283, 61-12284 and 61-12285 when combined shall not exceed a total diversion rate of 5.56 cfs, a total annual maximum diversion volume of 1476 af, a total annual maximum consumptive use volume of 1092 af, and the irrigation of 369 acres in a single irrigation season.
19. This right when combined with all other rights shall provide no more than 0.02 cfs per acre nor more than 4.0 afa per acre at the field headgate for irrigation of the place of use.
20. The following rights are diverted through points of diversion described above: 61-12280, 61-12281, 61-12282, 61-12283, 61-12284 and 61-12285.

WATER RIGHT NO. 61-2155**As Modified by Transfer No. 78356**

In accordance with the approval of Transfer No. 78356, Water Right No. 61-2155 is now described as follows:

Right Holder: BROWN FARMS LLC
764 N TROUTNER WAY
BOISE, ID 83712

Priority Date: 1/14/1963

Source: GROUND WATER

<u>BENEFICIAL USE</u>	<u>From</u>	<u>To</u>	<u>Diversion Rate</u>	<u>Diversion Volume</u>
IRRIGATION	04/01	to 10/31	4.130 cfs	868.0 af
			4.130 cfs	868.0 af

LOCATION OF POINT(S) OF DIVERSION

GROUND WATER	SESESE	Sec 18 Twp 04S Rge 06E	ELMORE County
GROUND WATER	L1 (SENWNW)	Sec 19 Twp 04S Rge 06E	ELMORE County
GROUND WATER	SWNESW	Sec 19 Twp 04S Rge 06E	ELMORE County
GROUND WATER	NWSENE	Sec 20 Twp 04S Rge 06E	ELMORE County
GROUND WATER	SWNWNW	Sec 20 Twp 04S Rge 06E	ELMORE County

PLACE OF USE: IRRIGATION

			NE				NW				SW				SE				Totals
Twp	Rng	Sec	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
04S	06E	17											40.0	40.0					80.0
04S	06E	18							43.0	40.0					40.0	40.0	40.0	40.0	243.0
									L 2										
04S	06E	19	40.0	40.0	40.0	40.0	40.0	44.0	44.0	40.0	40.0	44.0	44.0	40.0	40.0	40.0	40.0	40.0	656.0
								L 1	L 2			L 3	L 4						
04S	06E	20	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0					40.0	40.0	40.0	40.0	480.0

Right Acre Limit: 217.0

POU Total Acres: 1459.0

CONDITIONS OF APPROVAL

- Pursuant to Section 42-1412(6), Idaho Code, this water right is subject to such general provisions necessary for the definition of the rights or for the efficient administration of water rights as may be determined by the Snake River Basin Adjudication court at a point in time no later than the entry of the final unified decree.
- This right is limited to the irrigation of 217 acres within the place of use described above in a single irrigation season.

Transfer No. 78356

WATER RIGHT NO. 61-2155

As Modified by Transfer No. 78356

CONDITIONS OF APPROVAL

3. Rights 61-2154, 61-2155, 61-7005, 61-7119, 61-7396 and 61-10378 when combined shall not exceed a total diversion rate of 13.18 cfs, a total annual maximum diversion volume of 3500 af at the field headgate, and the irrigation of 875 acres.
4. This right when combined with all other rights shall provide no more than 0.02 cfs per acre nor more than 4.0 afa per acre at the field headgate for irrigation of the lands above.
5. Prior to diversion of water under this approval, the right holder shall provide a means of measurement acceptable to the Department from all authorized points of diversion which will allow determination of the total rate of diversion.
6. After specific notification by the Department, the right holder shall record the quantity of water diverted or shall enter into an agreement with the Department to determine the amount of water diverted from power records and shall annually report the information to the Department.
7. The period of use for the irrigation described in this approval may be extended to a beginning date of 3/15 and an ending date of 11/15 provided that beneficial use of the water can be shown and other elements of the right are not exceeded. The use of water before 4/1 and after 10/31 is subordinate to all water rights having no subordinated early or late irrigation use and a priority date earlier than 10/26/2000.
8. The following rights are diverted through points of diversion described above: 61-2154, 61-2155, 61-7005, 61-7119, 61-7396 and 61-10378.

WATER RIGHT NO. 61-12285**As Modified by Transfer No. 78356**

In accordance with the approval of Transfer No. 78356, Water Right No. 61-12285 is now described as follows:

Right Holder: SHEKINAH INDUSTRIES INC
ATTN: MICHAEL PRESTON
420 BITTERROOT DR
BOISE, ID 83709

Priority Date: 1/14/1963

Source: GROUND WATER

BENEFICIAL USE
IRRIGATION

From 04/01 **To** 10/31

Diversion Rate
1.730 cfs
1.730 cfs

Diversion Volume
364.0 af
364.0 af

LOCATION OF POINT(S) OF DIVERSION

GROUND WATER	NWSW	Sec 14 Twp 01S Rge 04E	ELMORE County
GROUND WATER	NESE	Sec 23 Twp 01S Rge 04E	ELMORE County
GROUND WATER	NWSE	Sec 23 Twp 01S Rge 04E	ELMORE County
GROUND WATER	SESE	Sec 23 Twp 01S Rge 04E	ELMORE County
GROUND WATER	SWSE	Sec 23 Twp 01S Rge 04E	ELMORE County
GROUND WATER	NESW	Sec 24 Twp 01S Rge 04E	ELMORE County
GROUND WATER	NESW	Sec 14 Twp 01S Rge 04E	ELMORE County
GROUND WATER	SESW	Sec 14 Twp 01S Rge 04E	ELMORE County
GROUND WATER	SWSW	Sec 14 Twp 01S Rge 04E	ELMORE County
GROUND WATER	NWNE	Sec 23 Twp 01S Rge 04E	ELMORE County
GROUND WATER	SWNE	Sec 23 Twp 01S Rge 04E	ELMORE County
GROUND WATER	NWSW	Sec 24 Twp 01S Rge 04E	ELMORE County
GROUND WATER	SESW	Sec 24 Twp 01S Rge 04E	ELMORE County
GROUND WATER	SWSW	Sec 24 Twp 01S Rge 04E	ELMORE County
GROUND WATER	NENW	Sec 23 Twp 01S Rge 04E	ELMORE County
GROUND WATER	NWNW	Sec 23 Twp 01S Rge 04E	ELMORE County
GROUND WATER	SENW	Sec 23 Twp 01S Rge 04E	ELMORE County
GROUND WATER	SWNW	Sec 23 Twp 01S Rge 04E	ELMORE County
GROUND WATER	NESW	Sec 23 Twp 01S Rge 04E	ELMORE County
GROUND WATER	NWSW	Sec 23 Twp 01S Rge 04E	ELMORE County
GROUND WATER	SESW	Sec 23 Twp 01S Rge 04E	ELMORE County
GROUND WATER	SWSW	Sec 23 Twp 01S Rge 04E	ELMORE County

PLACE OF USE: IRRIGATION

			NE				NW				SW				SE				Totals
Twp	Rng	Sec	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
01S	04E	14									40.0	40.0	40.0	40.0					160.0
01S	04E	23		7.0	7.0		40.0	22.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	476.0
01S	04E	24									12.0	40.0	40.0	37.0					129.0

Right Acre Limit: 91.0
POU Total Acres: 765.0

Transfer No. 78356

WATER RIGHT NO. 61-12285
As Modified by Transfer No. 78356

CONDITIONS OF APPROVAL

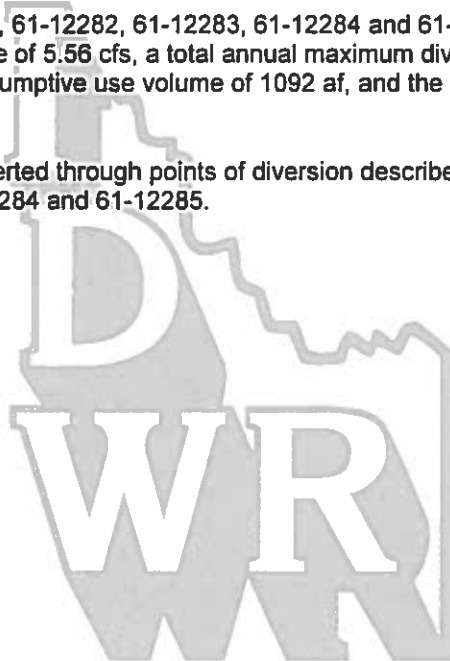
1. The right holder shall accomplish the change authorized by this transfer within five years of the date of this approval.
2. Failure of the right holder to comply with the conditions of this transfer is cause for the Director to rescind approval of the transfer.
3. Pursuant to Section 42-1412(6), Idaho Code, this water right is subject to such general provisions necessary for the definition of the rights or for the efficient administration of water rights as may be determined by the Snake River Basin Adjudication court at a point in time no later than the entry of the final unified decree.
4. This right does not grant any right-of-way or easement across the land of another.
5. Right holder shall comply with the drilling permit requirements of Section 42-235, Idaho Code and applicable Well Construction Rules of the Department.
6. Prior to diversion and use of water under this right, the right holder shall install a flow measurement and volume totalizing device of a type approved by the Department on each point of diversion to measure flow and volume of water diverted.
7. The right holder shall install or construct a straight length of conduit or ditch suitable for installation of a device for measuring the entire flow of water being diverted in connection with this right. If the right holder uses conduit, the straight length of conduit shall be at least fifteen times the diameter of the conduit and shall be above ground or otherwise easily accessible.
8. The diversion and use of water described in Transfer 78356 may be subject to additional conditions and limitations agreed to by the protestant and the right holder under a separate agreement to which the Department is not a party. Because the Department is not a party, the Department is not responsible for enforcement of any aspect of the agreement not specifically addressed in other conditions herein. Enforcement of those portions of the agreement not specifically addressed in other conditions shall be the responsibility of the protestant and the water right holder.
9. This right when combined with all other rights shall provide no more than 0.02 cfs per acre nor more than 4.0 afa per acre at the field headgate for irrigation of the place of use.
10. Diversion and use of water in connection with this right is subject to a Monitoring-Reporting Plan. The right holder shall provide the Department with a plan for monitoring-reporting aquifer levels, diversion flow rates, and volumes. The monitoring-reporting should occur in parallel with land development and production and should include identification of non-production wells and timelines for measuring and reporting. The right holder shall not divert water in connection with this right until the plan is approved by the Department. Failure to comply with the plan once it is accepted shall be cause for the Department to cancel or revoke the right.
11. Water rights 61-12280, 61-12281, 61-12282, 61-12283, 61-12284 and 61-12285 shall be subordinated to 61-12090 in the event of priority administration of water rights with points of diversion within administrative Basin 61.

WATER RIGHT NO. 61-12285

As Modified by Transfer No. 78356

CONDITIONS OF APPROVAL

12. Water rights 61-12280, 61-12281, 61-12282, 61-12283, 61-12284 and 61-12285 shall be subordinated to 63-32499 in the event of priority administration of water rights with points of diversion within administrative Basin 63.
13. This right is limited to the irrigation of 91 acres within the authorized place of use in a single irrigation season.
14. Rights 61-12280, 61-12281, 61-12282, 61-12283, 61-12284 and 61-12285 when combined shall not exceed a total diversion rate of 5.56 cfs, a total annual maximum diversion volume of 1476 af, a total annual maximum consumptive use volume of 1092 af, and the irrigation of 369 acres in a single irrigation season.
15. The following rights are diverted through points of diversion described above: 61-12280, 61-12281, 61-12282, 61-12283, 61-12284 and 61-12285.

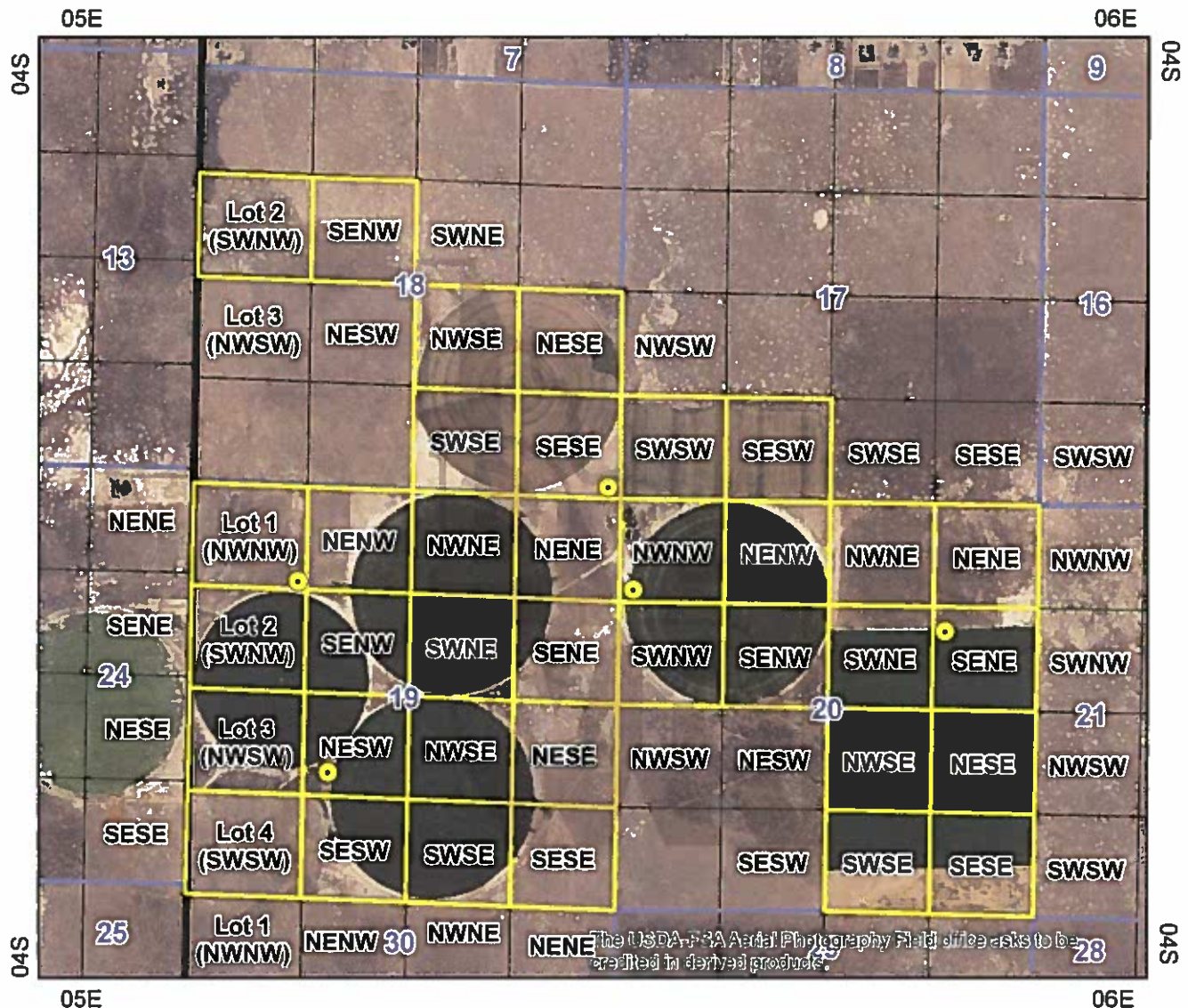


State of Idaho
Department of Water Resources

Attachment to Transfer No. 78356

61-7119, 61-7005, 61-7396, 61-10378, 61-2154, and 61-2155

This map depicts the IRRIGATION place of use boundary for this water right at the time of this approval and is attached to the approval document solely for illustrative purposes.



- Point of Diversion
- Place Of Use Boundary
- Townships
- PLS Sections

0 0.275 0.55 1.1 Miles

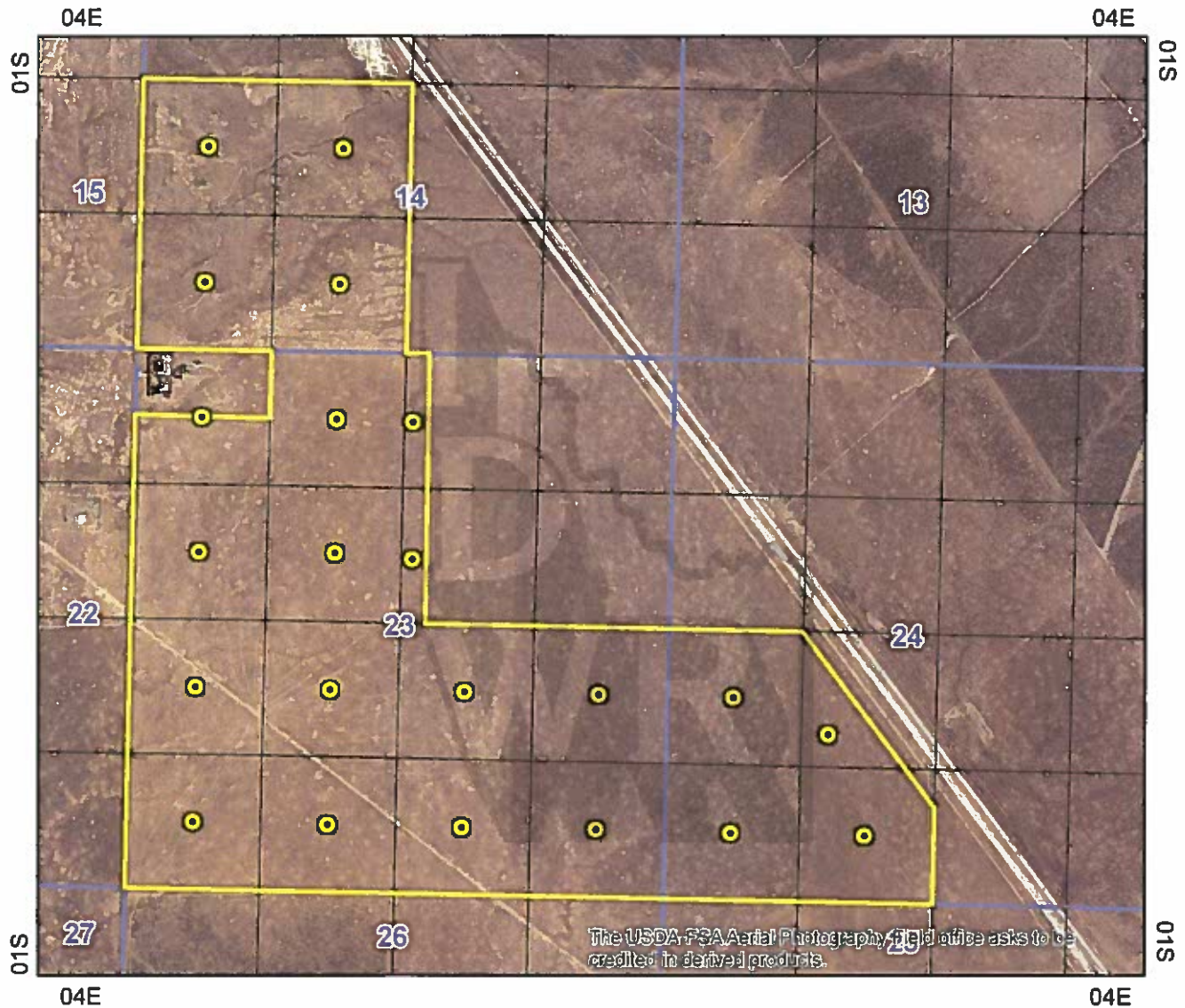


State of Idaho
Department of Water Resources

Attachment to Transfer No. 78356

61-12280, 61-12281, 61-12282, 61-12283, 61-12284, and 61-12285

This map depicts the IRRIGATION place of use boundary for this water right at the time of this approval and is attached to the approval document solely for illustrative purposes.



- Point of Diversion
- Place Of Use Boundary
- Townships
- PLS Sections
- Quarter Quarters

0 0.2 0.4 0.8 Miles





State of Idaho

DEPARTMENT OF WATER RESOURCES

Western Region, 2735 Airport Way • Boise, Idaho 83705-5082

Phone: (208) 334-2190 • Fax: (208) 334-2348 • Web Site: www.idwr.idaho.gov

January 21, 2016

C. L. "BUTCH" OTTER
Governor

GARY SPACKMAN
Director

SHEKINAH INDUSTRIES INC
ATTN: MICHAEL PRESTON
420 BITTERROOT DR
BOISE ID 83709

Re: Transfer No: 78356

Water Right No(s): 61-2154, 61-2155, 61-7005, 61-7119, 61-7396, 61-10378

Transfer Approval Notice

Dear Water Right Holder <and other Interested Persons>:

The Department of Water Resources has issued the enclosed approved Transfer of Water Right(s). Please be sure to thoroughly review the conditions of approval and remarks listed on the approval document.

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

ANY PERSON aggrieved by any decision, determination, order or action of the Department and who has not previously been afforded an opportunity for a hearing on the matter may request a hearing pursuant to section 42-1701A(3), Idaho Code. A written petition contesting the action of the Department and requesting a hearing shall be filed within fifteen (15) days after receipt of the denial or conditional approval.

If the transfer approval includes a condition requiring measuring and recording devices, such devices shall comply with specifications established by the Department. Detailed specifications are available on the Department's home page on the Internet, or you can request a copy by contacting any office of the Department. Please be sure to thoroughly review the specifications to avoid unnecessary costs for reinstallation or modification due to non-conforming or improperly installed devices.

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

If you have any questions, please contact me at (208)334-2190.

Sincerely,

 Rachel Neely for:

Nick Miller
Western Regional Manager

Enclosure

CC:

GIVENS PURSLEY LLP
MICHAEL C CREAMER
PO BOX 2720
BOISE ID 83701-2720

MAYFIELD TOWNSITE LLC
11204 N. BAR 21 DRIVE
GLENNS FERRY ID 83623

G3 LLC
ATTN: CRAIG HAYNES
2136 E LEWANDOWSKI LN
BOISE ID 83716

CITY OF MOUNTAIN HOME
ATTN WAYNE SHEPHERD
PO BOX 10
MOUNTAIN HOME ID 83647

NEVID LLC
NORMAN M SEMANKO
ATTORNEY AT LAW
PO BOX 829
BOISE ID 83701-0829

BRUCE M SMITH ATTORNEY AT LAW
950 W BANNOCK ST STE 520
BOISE ID 83702

JOHN MARSHALL LAW PLLC
ATTN JOHN MARSHALL
575 W BANNOCK ST STE B
BOISE ID 83702

CERTIFICATE OF SERVICE

I hereby certify that on January 21, 2016 I mailed a true and correct copy, postage prepaid, of the foregoing TRANSFER APPROVAL to the person(s) listed below:

Re: Transfer No.: 78356

Water Right No(s): 61-2154, 61-2155, 61-7005, 61-7119, 61-7396, 61-10378

**SHEKINAH INDUSTRIES INC
ATTN: MICHAEL PRESTON
420 BITTERROOT DR
BOISE ID 83709**

**MAYFIELD TOWNSITE LLC
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GLENN'S FERRY ID 83623**

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BOISE ID 83702**



**Rachel Neely
Administrative Assistant**

EXPLANATORY INFORMATION TO ACCOMPANY A PRELIMINARY ORDER

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

(Required by Rule of Procedure 730.02)

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

PETITION FOR RECONSIDERATION

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

EXCEPTIONS AND BRIEFS

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

REQUEST FOR HEARING

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

ORAL ARGUMENT

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

CERTIFICATE OF SERVICE

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

FINAL ORDER

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

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

Unless a different date is stated in a final order, the order is effective fourteen (14) days after its service date if a party has not filed a petition for reconsideration. If a party has filed a petition for reconsideration with the agency head, the final order becomes effective when:

- (a) The petition for reconsideration is disposed of; or
- (b) The petition is deemed denied because the agency head did not dispose of the petition within twenty-one (21) days.

APPEAL OF FINAL ORDER TO DISTRICT COURT

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

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

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

Appendix C

Plan of Operation



SIMCO ROAD GROUNDWATER MONITORING PLAN OF OPERATION

Job No. 999.217

Water Right No. 78356

Monitoring Well (J&M MW No. 1), J&M PW. No. 1 (D0080123), J&M PW No. 2 (D0082843)

BACKGROUND INFORMATION

Water right No. 78356 was approved by the Idaho Department of Water Resources (IDWR) on January 21, 2016. The approved transfer included six water rights 61-12280, 61-12281, 61-12282, 61-12283, 61-12284, and 61-12285. Two new groundwater wells and a monitoring well were drilled on land owned by J&M Solid Rock during 2018 and 2019. These two wells are the initial points of diversion under the new water rights. The wells are identified as J&M PW No. 1 (D0080123), J&M PW No. 2 (D0082843), and J&M MW No. 1. The water rights allow for diversion of up to 1,476 acre-feet annually at a maximum diversion rate of 5.560 cfs. The water will be used for irrigation of 369-acres within the approved place of use.

A Condition of Approval for the water right transfer was that “the diversion and use in connection with the water right is subject to a Monitoring-Reporting Plan.” As part of compliance with the water right, this document summarizes the monitoring requirements and procedures for the Simco Road Wells.

MONITORING REQUIREMENTS

The final design and set up of each well is shown for reference on the drawing titled, “Simco Rd., Idaho, Well Construction” located in Appendix A. It is important that the monitoring equipment be installed per this drawing so that monitoring data is accurate and consistent.

Groundwater

The following summarizes groundwater monitoring requirements with the focus of recording groundwater level in each well over time. All three wells are monitored.

1. MW No. 1

1.1. Two pressure transducers are installed; one barometric (atmospheric pressure) installed at 50-feet below ground level and one Levelogger (water level) installed at 500-feet below ground level.

1.2. Transducer readings occur:

1.2.1. once every six (6) hours for the first year with potential for re-evaluation thereafter.

1.2.2. once per hour at end of irrigation season to facilitate water level recovery analysis.

1.3. Hand measurement of water level occurs, at a minimum, once quarterly for the first year with potential for re-evaluation thereafter. However, hand measurement of water level shall be taken and recorded during each monthly site visit to download data.

2. PW No. 1

2.1. One pressure transducer, Levellogger (water level), is installed at 500-feet below ground level.

2.2. Transducer readings occur:

2.2.1. once every six (6) hours for the first year with potential for re-evaluation thereafter.

2.2.2. once per hour at end of irrigation season to facilitate water level recovery analysis.

2.3. Hand measurement of water level occurs, at a minimum, once quarterly for the first year with potential for re-evaluation thereafter. However, hand measurement of water level shall be taken and recorded during each monthly site visit to download data.

3. PW No. 2

3.1. One pressure transducer, Levellogger (water level), is installed at 460-feet below ground level.

3.2. Transducer readings occur

3.2.1. once every six (6) hours for the first year with potential for re-evaluation thereafter.

3.2.2. once per hour at end of irrigation season to facilitate water level recovery analysis.

3.3. Hand measurement of water level occurs, at a minimum, once quarterly for the first year with potential for re-evaluation thereafter. However, hand measurement of water level shall be taken and recorded during each monthly site visit to download data.

Flow Monitoring

3.4. PW No. 1 and PW No. 2

3.4.1. Instantaneous and totalizing flow of each well via separate flow meters installed as part of the discharge piping of each well.

IDWR Reporting

3.5. Report water level data monthly to IDWR for the first year, re-evaluation thereafter.

3.6. Submission of an annual report to IDWR that includes:

- Analysis of water level trends in J&M PW No. 1, J&M PW No. 2, and J&M MW No. 1.

- Discharge rates over time with analysis in relation to water level trends.
- Crops grown and acres irrigated during the year.

PROCEDURE

Equipment

Monitoring activities require the following equipment:

- (1) Water level sounder
- (1) Laptop Computer with Levellogger 4.4.0 and Logger 5 software installed
- (1) Barologger Optical Reader
- (1) Keller America Transducer Reader Cable
- (1) Hammer
- (2) Crescent Wrenches

Data Collection

J&M PW No. 1 and J&M PW No. 2

Data collected at well sites 1 and 2 includes:

- Flow (gpm)
- Totalized flow (gallons)
- Pump operating power (Hz)
- Water level
 - o Hand measured
 - o Transducer Data

Collection shall occur following these steps:

1. Record time of data collection.
2. Read flow (gallons per minute, gpm) and total volume (gallons) from the flow meter located in the above-ground pump discharge piping.
3. Read pump operating flow (gpm) and speed (Hz) from pump's variable frequency drive (VFD) LCD screen.
4. Use the wrench to temporarily remove the plug on the pump header labeled "TRANSDUCER". Retrieve the transducers located in well. Refer to section "Logger 5 Software" to download data from transducer to computer. Once data is downloaded, ensure transducer is still active and set to continue recording.

5. Lower water level sounder into sounding tube at a controlled rate. Continue to lower sounder until the sounder “beeps” and shows a read light on the spool. Begin to raise the sounder at a significantly slower rate until the “beep” and red light stop. Read the water level at the point the red light and sound do not indicate water.
6. Repeat Step 5 to confirm results. Once the water level is confirmed, record the time and the water level for the respective well.
7. Remove the sounder from the transducer tube.
8. After removing the sounder from the sounding tube, slowly lower the transducer back into the sounding tube and replace caps on the transducer tube.

Notes

1: If when lowering transducers back into sounding tubes they are stopped prematurely of their final depth, pour water down sounding tube to help the transducers pass the oil in the tube.

2: Upon collection of transducer data,

1. *upload the raw data to: C:\MWW\Dropbox (Mountain Waterworks)\Projects\A to D Projects\Amyx_217\IDWR\RAW_Data_DONOTMODIFY*
2. *update the Compiled Groundwater Monitoring Spreadsheet located at: C:\MWW\Dropbox (Mountain Waterworks)\Projects\A to D Projects\Amyx_217\IDWR*

J&M MW No. 1

The monitoring well does not produce water and does not have a pump installed within it. Data collected at the Monitoring Well includes:

- Water level
 - o Hand measured
 - o Transducer Data
- Barometric (atmospheric) pressure (transducer

Collection shall occur following these steps:

1. Remove steel cap using hammer.
2. Retrieve transducers from well housing and transfer data to computer according to section “Levellogger 4.4.0 Software.”
3. Follow the same protocol listed in steps 5 and 6 from “Data Collection Wells 1 and 2” section above to find the water level using the sounder.
4. Return sounders to well housing and replace steel cap.

Notes

1: Upon collection of transducer data,

1. *upload the raw data to: C:\MWW\Dropbox (Mountain Waterworks)\Projects\A to D Projects\Amyx_217\IDWR\RAW_Data_DONOTMODIFY*
2. *update the Compiled Groundwater Monitoring Spreadsheet located at: C:\MWW\Dropbox (Mountain Waterworks)\Projects\A to D Projects\Amyx_217\IDWR*

Logger 5 Software

The “Logger 5” software is necessary to retrieve data from the transducers in each of the wells. It can be downloaded at the following link: <http://www.kelleramerica.com/manuals-and-software/software/InstallerLogger5.zip>. It should be installed on the computer that is brought to the site.

Levellogger 4.4.0 Software

The “Levellogger 4.4.0” software is necessary to retrieve data from the transducers in each of the wells it can be downloaded at the following link: <https://www.solinst.com/downloads/>. It should be installed on the computer that is brought to the site.

Appendix D

Water Level Meter Transducer Data Sheet



AUTONOMOUS DATA COLLECTOR

DATA LOGGING AT FAVORABLE PRICE - Ø 18 MM

The DCX-18 ECO is an autonomous, rechargeable battery powered instrument. It features a stainless steel 18 mm in diameter housing designed to record pressure (water depth) and temperature over long periods at a very economical price. Its small size, rechargeable battery, fully welded housing and the relative sensor option are just a few of the many advantages provided by the DCX-18 ECO.

The electronics employ the latest microprocessor technology which give high accuracy and resolution for the pressure and temperature signals. The measured values are mathematically compensated for all linearity and temperature errors of the pressure sensor.

The use of a non-volatile memory for data storage ensures high data security.

DCX-18 ECO

The sensor, electronics and the rechargeable battery are housed in a fully welded stainless steel tube for submersible deployment. For data read-out, the DCX-18 ECO must be recovered from the measurement point. The end cap, sealed by two O-Rings, must then be removed to access the serial interface.

The DCX-18 ECO works with an absolute pressure sensor. In shallow water depths where the influence of barometric pressure changes should be considered, it is recommended that a second data logger (Baro) is placed at the surface, to record the barometric pressure. The PC then calculates the differential pressure resp. the water depth by subtracting the two measured values.

DCX-18 ECO with cable (DCX-18 ECO SG or DCX-18 ECO VG)

An optional cable is available for the DCX-18 ECO, enabling data retrieval or configuration and charging the battery without removing the data logger. For relative measuring devices, the cable incorporates a capillary tube which enables venting the relative sensor.

Rechargeable Battery:

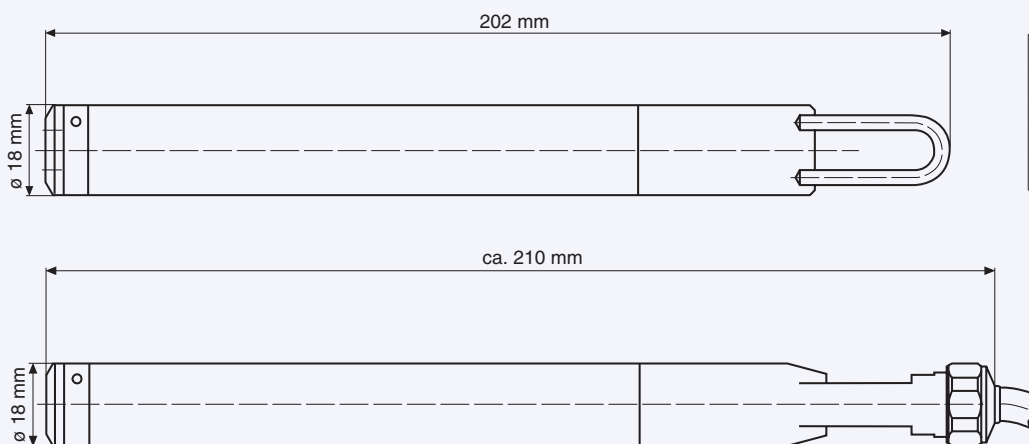
The DCX-18 ECO is charged over the USB connection with the K-114M converter connected to PC. For fast charging, connect the power supply unit or the car charging adapter to the converter. The charge status is displayed in the logger software.



DCX- 18 ECO



DCX- 18 ECO
with cable



1	Supply USB (+5 V, 100 mA)
2	RS485A
3	GND
4	RS485B
5	Supply EXT (+5 V, 700 mA)





Specifications

Pressure Ranges	PAA 10 mWC (0,8...2 bar)	20 mWC (0,8...3 bar)	50 mWC (0,8...6 bar)	100 mWC (0,8...11 bar)
	PR 10 mWC (0...1 bar)	20 mWC (0...2 bar)	50 mWC (0...5 bar)	100 mWC (0...10 bar)
Overpressure	2 x Pressure Range			

PAA: Absolute. Zero at vacuum PR: Vented Gauge. Zero at atmospheric pressure

Supply	Rechargeable battery	Long Term Stability typ.	Range ≤ 2 bar: 2 mbar (0,02 mWC)
Battery Running Time *	~3 years @ 1 measurement/hour		Range > 2 bar: 0,2 %FS
Charging time ***	~7 h normal charge (USB) ~1 h fast charge (AC/DC or car adapter)	Temperature Measurement	Accuracy typ. ±1 °C
Output Interface	RS 485	Shortest Measuring Interval	1 per second
Electrical Connection	M12 / 5-pole	Memory	57'000 measuring values @ storage interval ≤ 15 s, otherwise 28'000 measuring values (always with attributed time)
Cable Option (SG/VG)	Fixed lengths: 10, 20, 50, 100 m	Material	Stainless steel AISI 316L O-Ring: Viton® Protective Cap: Delrin®
Accuracy ****	typ. 0,1 %FS	Probe Weight	≈ 150 g (without cable)
Comp. Temperature Range	-10...40 °C	Options	Other material: e.g. Hastelloy or Titanium
Error Band ** (-10...40 °C)	max. 0,2 %FS		
Resolution	max. 0,0025 %FS		

* external influences could reduce battery capacity ** Accuracy + Temperature Error *** The rechargeable battery should preferably be charged without an extension cable. It is possible to use an extension cable of up to 10 m in length for fast charging, or a cable of up to 30 m for normal charging. **** Includes Linearity + Repeatability + Hysteresis

LOGGER 5

The Logger 5 software makes it possible to configure and read autonomous KELLER data loggers. This software assists users during measurements in the field, with processing the data and also with forwarding it to partners or end customers.

Measurement data can be displayed in graphic form, exported, compensated for air pressure or converted into different units. The online function displays the current device values.

The software is included in the scope of delivery for the interface converter cables, or it can be downloaded free of charge at www.keller-druck.com.

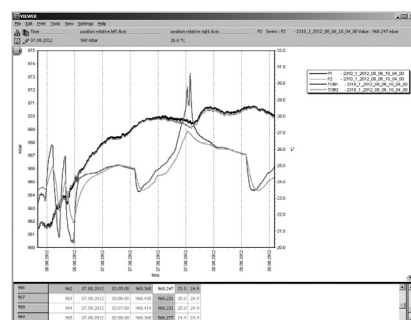
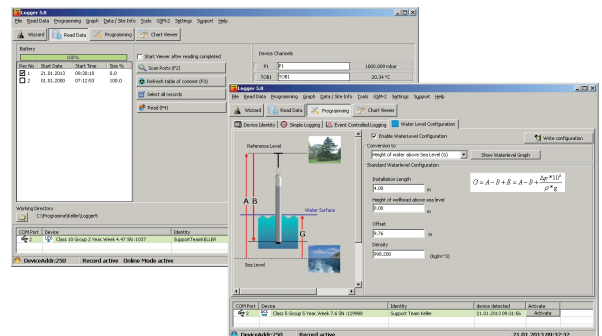
- Supports Windows operating systems

Overview of functions: Logger 5

- Pressure and temperature channels, selectable
- Adjustable measurement interval (1s...99 days)
- Averaging with selectable number of measurements
- Recording modes:
 - continuous interval measurement
 - event-controlled recording:
 - recording starts when value is exceeded
 - recording starts when value is undercut
 - recording starts when value changes
 - combination of continuous and event-controlled recording is possible
- Adjustment of pressure zero point
- Start measurements immediately or at a set time
- Data storage: linear or ring-type memory
- Battery status display
- Online display of measuring channels
- Management of notifications and images for stations

Processing and forwarding measurement data

- Graphic display of measurement data
- Simple export of measurement data and graphics (supports Microsoft Office and these file formats: CSV-1, CSV-2, XML, Hydras, TNO, Wiski, BNA)
- Generation of measurement reports
- Station information stored in SQ Lite database





Levellogger® 5

Model 3001

The Levellogger 5 records highly accurate groundwater and surface water level and temperature measurements. It combines a pressure sensor, temperature detector, 10-year lithium battery, and datalogger, sealed within a 22 mm x 160 mm (7/8" x 6.3") stainless steel housing with a corrosion-resistant coating baked-on using polymerization technology.

The Levellogger 5 measures absolute pressure using a Hastelloy® pressure sensor, offering high resolution and an accuracy of 0.05% FS. Readings are stable in extreme pressure and temperature conditions. The Hastelloy sensor can withstand 2 times over-pressure without permanent damage. Combined with the durable coating inside and out, the Levellogger 5 has high corrosion and abrasion resistance in harsh environments.

The Levellogger 5 uses a Faraday cage design, which protects against power surges or electrical spikes caused by lightning. Its durable maintenance-free design, high accuracy and stability, make the Levellogger 5 the most reliable instrument for long-term, continuous water level recording.

Applications

- Aquifer characterization: pumping tests, slug tests, etc.
- Watershed, drainage basin and recharge monitoring
- Stream gauging, lake and reservoir management
- Harbour and tidal fluctuation measurement
- Wetlands and stormwater run-off monitoring
- Water supply and tank level measurement
- Mine water and landfill leachate management
- Long-term water level monitoring in wells, surface water bodies and seawater environments



Fast communication and downloading speeds with a high speed Field Reader 5



Upgraded Features

- Increased stability for communication: single-eye optical interface—easier to clean, more scratch resistant
- Increased memory: 150,000 sets of data
- Stronger, more robust design: double o-ring seals for increased leakage protection
- Better thermistor sensitivity: upgraded platinum RTD
- Superior protection in harsh environments: corrosion and abrasion resistant coating—inside and out
- Enhanced Levellogger Software: improved Diagnostic Utility for more proactive user “self-tests”



Single-eye optical interface

The Levellogger 5 features a smooth, single-eye optical interface, which allows for easy cleaning and more reliable, faster communication. Using a Solinst USB device, including the new Field Reader 5, and Levellogger PC Software, programming and data downloading speeds are 57,600 bps.

Flexible Communication

Levellogger Software is streamlined, making it easy to program dataloggers, and view and compensate data in the office or the field. Data compensation is made simple; multiple data files can be barometrically compensated at once.

The Levellogger 5 App Interface on your in-field Levelloggers creates a Bluetooth® connection between your dataloggers and the Solinst Levellogger App on your smart device. Also an option, the DataGrabber 5 is a field-ready USB data transfer unit.

Remote monitoring options include the LevelSender 5, a simple and compact device that fits right in a 2" well, STS 5 Telemetry Systems, and the RRL 5 Remote Radio Link. In addition, Levellogger 5 Series dataloggers are SDI-12 compatible.

Levellogger Setup

Programming Levelloggers is extremely intuitive. Simply connect to a PC using an Optical Reader (Desktop Reader 5 or Field Reader 5) or PC Interface Cable. Use a single screen to fill in your project information and sampling regime. Templates of settings can be saved for easy re-use.

The Levellogger time may be synchronized to the computer clock. There are options for immediate start or future start and stop times. The percentage battery life remaining and the amount of free memory are indicated on the settings screen.

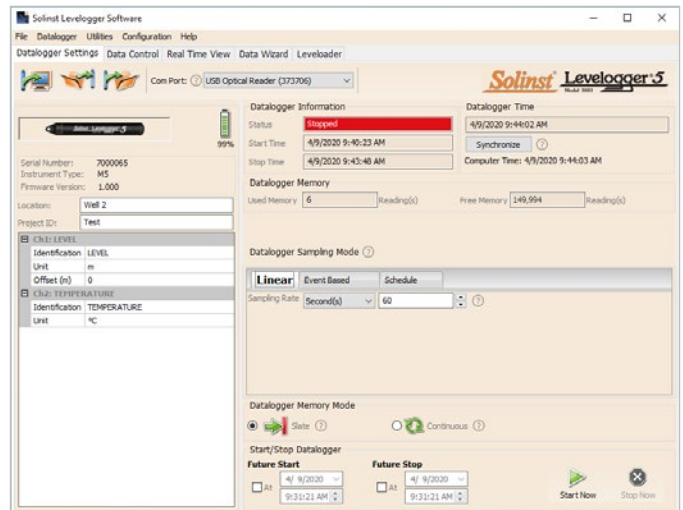
Levelloggers can also be programmed with a sampling regime and start/stop times using the Solinst Levellogger App on your smart device.

Convenient Sampling Options

Levelloggers can be programmed with linear, event-based, or a user-selectable sampling schedule. Linear sampling can be set from 1/8 second to 99 hours.

Event-based sampling can be set to record when the level changes by a selected threshold. Readings are checked at the selected time interval, but only recorded in memory if the condition has been met. A default reading is taken every 24 hours if no “event” occurs.

The Schedule option allows up to 30 schedule items, each with its own sampling rate and duration. For convenience, there is an option to automatically repeat the schedule.



Data Download, Viewing and Export

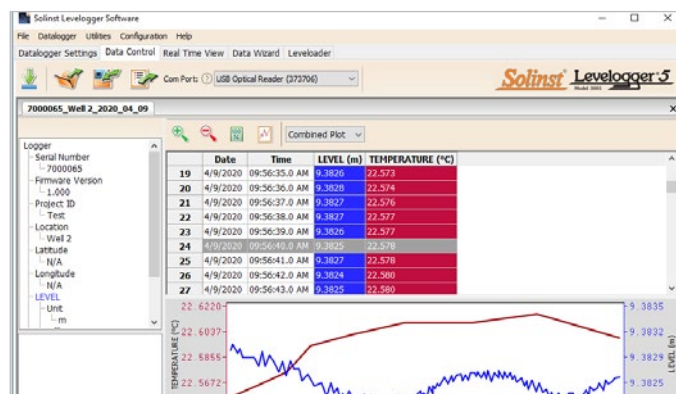
Data is downloaded to a PC with the click of a screen icon. There are multiple options for downloading data, including ‘Append Data’ and ‘All Data’. The software also allows immediate viewing of the data in graph or table format using ‘Real Time View’.

Level data is automatically compensated for temperature; the temperature data is also downloaded. Barometric compensation of Levellogger data is performed using the Data Wizard, which can also be used to input manual data adjustments, elevation, offsets, density, and adjust for Barometric efficiency. The Levellogger Software allows easy export of the data into a spreadsheet or database for further processing.

The Solinst Levellogger App also allows you to view and save real-time or logged data right on your smart device.

Helpful Utilities

The Diagnostic Utility can be used in case of an unexpected problem. It checks the functioning of the program, calibration, backup and logging memories, the pressure transducer, temperature sensor and battery voltage, as well as enabling a complete Memory Dump, if required. A firmware upgrade will be available from time to time, to allow upgrading of the Levellogger 5, as new features are added.



Levellogger 5 App Interface

The Levellogger 5 App Interface uses Bluetooth® technology to connect your Levellogger to your smart device. With the Solinst Levellogger App, you can download data, view real-time data, and program your Levelloggers. Data can be e-mailed from your smart device directly to your office (see Model 3001 Levellogger 5 App Interface data sheets).



*The Apple logo is a trademark of Apple Inc., registered in the U.S. and other countries. App Store is a service mark of Apple Inc. Google Play is a trademark of Google Inc. The Bluetooth® word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. and any use of such marks by Solinst Canada Ltd. is under license.

Standard Cable Deployment

Levelloggers may be suspended on a stainless steel wireline or Kevlar® cord. This is a very inexpensive method of deployment, and if in a well, allows the Levellogger to be easily locked out of sight and inaccessible. Solinst offers wireline and cord assemblies in a variety of lengths.

Solinst 3001 Well Cap Assembly

The 2" Locking Well Caps are designed for both standard and Direct Read Cable deployment options.

The well cap has a convenient eyelet for suspending Levelloggers using wireline or Kevlar cord. The Well Cap insert has two openings to accommodate direct read cables for both a Levellogger and Barologger. Adaptors are available to fit 4" wells.

The cap is vented to equalize atmospheric pressure in the well. It slips over the casing, and can be secured using a lock with a 9.5 mm (3/8") shackle diameter.



*Levellogger 2" Locking Well Cap Installations
(see Well Caps data sheet for more details)*

L5 Direct Read Cables

When it is desired to get real-time data and communicate with Levelloggers without removal from the water, they can be deployed using L5 Direct Read Cables. This allows viewing of the data, downloading and/or programming in the field using a portable PC, DataGrabber 5, or the Solinst Levellogger 5 App Interface.

Levelloggers can be connected to an SDI-12 datalogger using the Solinst SDI-12 Interface Cable attached to a L5 Direct Read Cable.

Cable Specifications

L5 Direct Read Cables are available for attachment to any Levellogger in lengths up to 1500 ft. The 3.175 mm dia. (1/8") coaxial cable has an outer polyurethane jacket for strength and durability. The stranded stainless steel conductor gives non-stretch accuracy.

*Barologger 5 and Levellogger 5
installed in Well Using
L5 Direct Read Cables*



Accurate Barometric Compensation

Levelloggers measure absolute pressure (water pressure + atmospheric pressure) expressed in feet, meters, centimeters, psi, kPa, or bar.

The most accurate method of obtaining changes in water level is to compensate for atmospheric pressure fluctuations using a Barologger 5, avoiding time lag in the compensation.

The Barologger 5 is set above high water level in one location on site. One Barologger can be used to compensate all Levelloggers in a 30 km (20 mile) radius and/or with every 300 m (1000 ft.) change in elevation.

The Levellogger Software Data Compensation Wizard automatically produces compensated data files using the synchronized data files from the Barologger and Levelloggers on site.

The Barologger 5 uses pressure algorithms based on air rather than water pressure, giving superior accuracy.

The recorded barometric information can also be very useful to help determine barometric lag and/or barometric efficiency of the monitored aquifer.

The Barologger 5 records atmospheric pressure in psi, kPa, or mbar. When compensating submerged Levellogger 5, Edge, Gold or Junior data, Levellogger Software can recognize the type of Levellogger and compensate using the same units found in the submerged data file (e.g. feet or meters). This makes the Barologger 5 backwards compatible.

*Synchronize and Simplify
Barometric Compensation
Across Entire Site*



Levellogger 5 Specifications

Level Sensor:	Piezoresistive Silicon with Hastelloy Sensor
Accuracy:	± 0.05% FS (Barologger 5: ± 0.05 kPa)
Stability of Readings:	Superior, low noise
Resolution:	0.002% FS to 0.0006% FS
Units of Measure:	m, cm, ft., psi, kPa, bar, °C, °F (Barologger 5: psi, kPa, mbar, °C, °F)
Normalization:	Automatic Temperature Compensation
Temp. Comp. Range:	0° to 50°C (Barologger 5: -10 to +50°C)
Temperature Sensor:	Platinum Resistance Temperature Detector (RTD)
Temp. Sensor Accuracy:	± 0.05°C
Temp. Sensor Resolution:	0.003°C
Battery Life:	10 Years – based on 1 reading/minute
Clock Accuracy (typical):	± 1 minute/year (-20°C to 80°C)
Operating Temperature:	-20°C to 80°C
Maximum # Readings:	150,000 sets of readings
Memory Mode:	Slate and Continuous
Communication:	Optical high-speed: USB, SDI-12 57,600 bps with USB
Size:	22 mm x 160 mm (7/8" x 6.3")
Weight:	166 grams (5.9 oz)
Corrosion Resistance:	Baked-on coating using polymerization technology (inside and out)
Other Wetted Materials:	Delrin®, Viton®, 316L stainless steel, Hastelloy, PFAS-free PTFE coating
Sampling Modes:	Linear, Event & User-Selectable with Repeat Mode, Future Start, Future Stop, Real-Time View
Measurement Rates:	1/8 sec to 99 hrs
Barometric Compensation:	Software Wizard and one Barologger 5 in local area (approx. 30 km/20 miles radius)

Models	Full Scale (FS)	Accuracy	Resolution
Barologger	Air only	± 0.05 kPa	0.002% FS
M5	5 m (16.4 ft.)	± 0.3 cm (0.010 ft.)	0.001% FS
M10	10 m (32.8 ft.)	± 0.5 cm (0.016 ft.)	0.0006% FS
M20	20 m (65.6 ft.)	± 1 cm (0.032 ft.)	0.0006% FS
M30	30 m (98.4 ft.)	± 1.5 cm (0.064 ft.)	0.0006% FS
M100	100 m (328.1 ft.)	± 5 cm (0.164 ft.)	0.0006% FS
M200	200 m (656.2 ft.)	± 10 cm (0.328 ft.)	0.0006% FS

Low Cost Datalogging: See Levellogger 5 Junior data sheet.
Vented Dataloggers: See LevelVent 5 & AquaVent 5 data sheets.
Conductivity Datalogging: See Levellogger 5 LTC data sheet.

DataGrabber 5

The DataGrabber 5 is a field-ready data transfer device that allows you to copy data from a Levellogger onto a USB flash key (Dual USB & USB-C key provided).

The DataGrabber 5 is compact and very easy to transport. It connects to the top end of a Levellogger's Direct Read Cable, or Slip Fit and Threaded Adaptors are available to allow direct connection to a Levellogger.

One push-button is used to download all of the data in a Levellogger's memory to a USB device. A convenient LED light indicates the operation of the DataGrabber 5. The data in the Levellogger memory is not erased, and logging is not interrupted if the Levellogger is still running. The DataGrabber 5 uses its own replaceable 9V battery.



LevelSender 5 Telemetry

The LevelSender 5 is a simple, low cost telemetry system designed to send data from Levelloggers in the field, to your smart device and PC database via cellular communication.

Initial set up is done through a user-friendly software wizard at the Home Station. There is two-way communication between the LevelSender 5 and Home Station, allowing remote updates.

Each LevelSender 5 device has a single port to connect one Levellogger with an optional splitter that allows the connection of two. A built-in barometer allows barometric compensation of water level data.

LevelSender 5 stations are compact in design, which allows them to be discreetly installed inside a 2" (50 mm) well (see Model 9500 data sheet).



STS 5 Telemetry

STS 5 Telemetry provides an efficient method to send Levellogger data from the field to your desktop. Cellular communication options give the flexibility to suit any project. STS Systems are designed to save costs by enabling the self-management of data. Alarm notification, remote firmware upgrades and diagnostic reporting make system maintenance simple (see Model 9100 data sheet).



RRL 5 Remote Radio Link

The RRL 5 Remote Radio Link is ideal for closed-loop, short range applications up to 30 km (20 miles). The RRL 5 can be linked to an STS 5 telemetry station to change from a closed-loop telemetry system to one which can be accessed from anywhere through internet connectivity. (see Model 9200 data sheet).

Appendix E

Water Level Meter (Sounder) Data Sheet

Laser Marked Water Level Meter

Model 102

The Solinst Model 102 Water Level Meter is designed to measure groundwater levels, especially in small diameter tubes and piezometers, or where a flexible assembly is needed to get past down hole instrumentation.

Also available from Solinst, are the Model 101 and 101B Water Level Meters, which feature easy-to-read, easily repaired flat tape. (See Model 101 Water Level Meter Data Sheets).

Operating Principles

The Model 102 Water Level Meter uses a choice of two small diameter probe designs, attached to a narrow coaxial cable, fitted on a sturdy ergonomically designed reel. A standard 9 volt battery, housed in an easy-access battery drawer, powers the Water Level Meter.

When the probe enters water the electrical circuit is completed, sending a signal back to the reel where a light and clearly audible buzzer are activated. The water level is then determined by taking a reading directly from the cable at the top of the well casing or borehole.

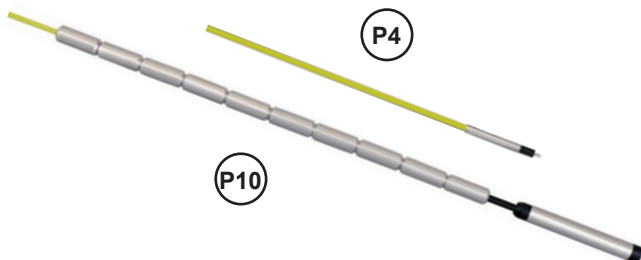
A sensitivity control allows the buzzer to be scaled back or turned off while in cascading water, and ensures a clear signal in both high and low conductivity conditions.

Narrow Diameter Probes

Model 102 Probes are designed for flexibility. The probe tips use a recessed design to minimize false signals in cascading water.

P10: 10 mm dia. x 70 mm long (3/8" x 2.75") stainless steel with 10 stainless steel weights, weighing 174 g (6.14 oz). This probe is ideal for the majority of water level measurement applications. The flexible weight assembly allows easy well access and keeps the cable hanging straight in monitoring wells.

P4: 4 mm dia. x 38 mm long (0.157" x 1.5") stainless steel weighing 10 g (0.35 oz), with no weights. It is ideal for shallow applications and for accessing very narrow diameters, especially the channels of the Solinst CMT System, Drive-Point Piezometers or narrow open tubes.



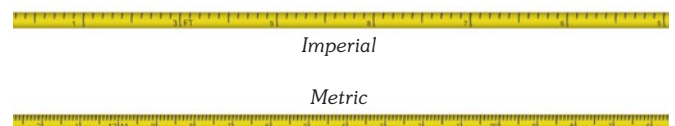
[Get Quote](#) | [More Info](#)

Laser Marked Cable

The coaxial cable has a durable polyurethane jacket with permanent markings precisely laser etched on the cable every millimeter or every 1/100 ft.

The cable reels smoothly, remains flexible, and comes in lengths from 30 m – 300 m (100 ft – 1000 ft).

A braided copper outer conductor gives flexibility and a stranded stainless steel central conductor gives strength. It is easy to repair and splice.



Laser Markings Each Millimeter or Each 1/100 ft

Water Level Meter Features

- Low Cost** • Solinst quality at a low price
- Narrow** • 4 mm (0.157") diameter probe
- Long Life** • Rugged, corrosion resistant components
- Strong, flexible cable is easily spliced
- Replacement probes, cables and parts
- Accurate** • Precise markings every mm or 1/100 ft
- Traceable to national standards

Appendix F

IDWR Response to IWE Letter Regarding Shekinah Monitoring Plan
Changes submitted via email, 2/26/2024



Flint Hall <flint@idahowaterengineering.com>

Fwd: Shekinah (Simco)Wells

1 message

Ken Neely <knneely@gmail.com>

Fri, Mar 1, 2024 at 4:56 PM

To: Duane Amyx <duanea@amyxconstruction.com>, Hal Anderson <hal@idahowaterengineering.com>, Flint Hall <flint@idahowaterengineering.com>

We got all that I asked for!

----- Forwarded message -----

From: **Ritter, Ashley** <Ashley.Ritter@idwr.idaho.gov>

Date: Fri, Mar 1, 2024 at 3:42 PM

Subject: Shekinah (Simco)Wells

To: Ken Neely <knneely@gmail.com>

Cc: Hansen, Angela <Angela.Hansen@idwr.idaho.gov>

Ken,

Please find IDWR's response to the document "Response to IDWR's Letter Regarding Shekinah Monitoring Plan Changes" submitted via email on 2/26/2024.

IDWR Comment 1.3. Quarterly hand measurements in production wells and in the monitoring well. Measurements are not required during the pumping season in the production wells, but apparently are required in the monitoring well during the pumping season.

Ken Neely's response. Based on the large drawdown in the production wells during pumping season, we agree that hand measurements (i.e., manual measurements using an electrical or steel tape) are of little or no value. Furthermore, the similar water level patterns in the monitoring well compared to the production wells indicate that there is little or no value in recording manual water levels in that well during pumping season. Figures 1 through 3 show the similarities in water level patterns for the monitoring and production wells in 2022. Please note that manual measurements were difficult to make in the production wells by the previous consultant due to the small diameter size of the monitoring tubing, and the oil layer overlaying the water in the well and in the tubing.

Therefore, we request that hand measurements be scheduled three times during a calendar year for the two production wells and for the monitoring well according to this schedule:

1. Once within 30 days of the commencement of pumping (generally sometime in April)
2. Once within 30 days of the cessation of pumping (generally mid to late October)
3. Once on, or shortly after, January 1

In the event that manual measurements are unsuccessful in the production wells, the attempts will be noted in the annual report.

IDWR's Response: Hand measurements scheduled three (3) times a year, collected from production wells and the monitoring well, once within 30 days of the commencement of pumping (generally sometime in April), once within 30 days of the cessation of pumping (generally mid to late October) and once on, or shortly after, January 1 is adequate.

IDWR Comment 1.4. Transducer monitoring increased to hourly for both production wells. (the letter says for the production "well" (singular); we assume you meant "wells" (plural)). No mention of an increase for the monitoring well.

Ken Neely's response. Based on the hydrographs for 2020, 2021 and 2022, we do not see any value in increasing the frequency of data collection from once every 6 hours to once every hour after the pumping season ends. The post-pumping water levels exhibit a classic recovery pattern with no unusual deviations from this recovery pattern. Furthermore, the recovery patterns are very similar for all three years. Most recovery occurs within one month after the cessation of pumping with continual recovery over the next couple of months. As an example, see Figures 2, 4 and 5 for Well 1. Nearly identical patterns occur for Well 2 and the monitoring well. .

We request that data collection frequency be once every 6 hours for the entire year for all three wells.

IDWR's Response: Data collection frequency for transducers once every six (6) hours for the entire year for all three wells is adequate.

-

IDWR Comment 2.1. Include discharge rate and volume in the annual report.

Ken Neely's response. Does Table 2.1 in Section 2 from the 2022 annual report meet IDWR's requirements?

IDWR's Response: Table 2.1 in Section 2 from the 2022 annual report does satisfy this requirement.

-

IDWR Comment 2.2. Flowmeter should meet IDWR's standards.

Ken Neely's response. Figures 6 through 8 show the flow meter for Production Well 2. The same type of meter is used for Production Well 1. Do these meters meet IDWR's standards?

IDWR's Response: The production Well flow meters meet IDWR's standards.

-

IDWR Comment 3.1. Were two-day pumping tests conducted on the Production Wells.

Ken Neely's response. Tests were conducted on both wells, but not for 24 hrs.

IDWR's Response: IDWR appreciates confirmation that pump tests were conducted, but reference to a pump test does not need to be included in the updated Monitoring Plan, as it was not required as a condition of approval on the water right transfer.

-

IDWR Comments 4.1 and 4.1. These comments require that the data submittal and the annual report be submitted by January 15.

Ken Neely's response. Data analysis and report writing cannot be completed until the calendar year ends and the final data for the year are collected on, or around January 1 of next year. Therefore, it is not reasonable to expect a completed data package and annual report two weeks after the final data for the year is collected.

Ken Neely's response. We request that the data submittal and annual report be required by Feb 15, annually.

IDWR's Response: Data submittal and annual report submittal by February 15th annually is adequate.

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Next Steps: IDWR requests that a formal updated Monitoring Plan document be submitted for review and approval. If you have any questions, please let me know. Thank you.

Ashley M. Ritter, E.I.T., G.I.T. | Associate Engineer

Idaho Department of Water Resources-State Office

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