

January 11, 2024

Arizona Department of Environmental Quality
Water Quality Division
1110 W. Washington St.
Phoenix, AZ 85007

Re: Comments on Proposed Renewal of AZPDES Permit (AZ0026387) for Arizona Minerals, Inc.

To Whom It May Concern:

Please accept these comments and objections to the request by Arizona Minerals, Inc. (AMI) to renew its existing Arizona Pollutant Discharge Elimination System (AZPDES) Permit No. AZ0026387 for the "January Mine Hermosa Project Water Treatment Plant" in Santa Cruz County, Arizona ("Draft Permit" or "Permit"). The current AZPDES permit was scheduled to expire on January 7, 2023.

For the reasons set forth in these comments, the Permit cannot be issued based on the following:

1. Based on the coarse-grained lithology of the creek deposits, well construction information and water level data, discharge from Outfall 002 will infiltrate into the groundwater supplying domestic wells along Harshaw Creek. The following sections discuss this issue. Current levels in the Permit exceed the Primary Drinking Water Standards. If a Permit must be issued, the discharge must meet all Primary and Secondary Drinking Water Standards.
2. The discharge location for Outfall 002 is in Upper Harshaw Creek which is impaired.
3. Lower Harshaw Creek is impaired and the ADEQ must complete a TMDL before it can issue a permit.
4. Discharge data and actual extent of ongoing discharge must be included in calculating permit limits and waste load allocations.
5. The historic tailings represent a new source of pollutants as it is being used to hold new waste from new operations. Discharge from treatment of this historic tailings can't be discharged to Alum Gulch as it is impaired.
6. Sonoita Creek is a Waters of the US and will receive surface water from the discharge, however Sonoita Creek is impaired for zinc and the ADEQ must complete a TMDL for zinc impairment in Sonoita Creek.
7. A waste load allocation must be performed by the ADEQ as required by the Clean Water Act to support restoration of the creek by not further contaminating it.
8. ADEQ must acknowledge that the AMI facility is a New Source of discharge before issuing the permit.
9. ADEQ must acknowledge that this mine will go into production during the time frame of this Permit and the waste stream will change over time.
10. The Permit must be revised to require at least monthly monitoring of all Assessment Level Monitoring parameters listed in the Permit especially considering the waste stream will change over time due to the nature of the project.
11. As a new source, the mine must be subject to all modern performance standards and requirements of the Clean Water Act.
12. The Permit must be revised to include testing of manganese and sulfate to protect Secondary Drinking Water Standards.
13. There is a Health Advisory for Manganese which should be considered.

HYDROGEOLOGY OF HARSHAW CREEK ALLUVIAL DEPOSITS

Harshaw Creek alluvial deposits and water level information were evaluated by reviewing available well logs submitted to the Arizona Department of Water Resources (ADWR) and from the Groundwater Site Inventory (GWSI) database maintained by the ADWR. The wells reviewed for this study are located along in the portion of Harshaw Creek overlying bedrock, from Outfall 002 to conceptual POC 4. As shown on Figure 1, Harshaw Creek extends from the discharge point at Outfall 002 through Section 34 to Section 27 to Section 26 to Section 23 to Section 14 to Section 15 to Section 9. There is a naturally occurring perennial reach of Harshaw Creek in Section 23. Conceptual POC-4 is located at the western edge of Section 9 where the shallow bedrock underlying Harshaw Creek becomes deeper as the creek flow into the Sonoita Creek Basin.

Alluvium in area of the Harshaw Creek is an aquifer as it provides a reliable source of water for several homes and ranches. The Harshaw Creek alluvium is generally comprised of coarse-grained alluvial deposits consisting primarily of sand and gravel (ADWR logs for 55-227106, 55-540425, 55-646335 (35-36743, 55-928714). Most wells in the area are shallow, between 25 and 160 feet, and draw from the alluvial aquifer as their screened intervals are within the alluvium. In several wells, including deeper wells penetrating finer-grained materials, there are no annular material installed to prevent shallow groundwater from being drawn into the pumping well (ADWR 55-227106, 55-211818, 55-922966, 35-36743/55-646335, 55-928715, 55-224174).

Water levels from the ADWR along Harshaw Creek are reported to be shallow and generally increase in depth along the stream. From the GWSI database, water levels were 9 feet (55-637236, 2020) and 5.5 feet (55-640969, 2020) in Section 23, 18.4 feet (55-646334, 2005) in Section 15 and 27 feet (55-647393, 2020) in Section 9. From well completion reports, water levels in the area of the creek are shallow ranging from about 13 - 15 feet downstream of Outfall 002 (ADWR 55-211818 in Section 34, 55-536795 in Section 26) to 25 feet (ADWR 35-36743/55-646335) in Section 15 and become deeper closer conceptual POC 4 at 46 feet (55-224174 in Section 9) to 59 feet (55-98715 in Section 16).

The coarse-grained deposits allow for infiltration of discharge from the surface, through the thin vadose zone, into the shallow groundwater. The creek is effectively an infiltration basin until the groundwater reaches land surface. Discharge in January 2024 was observed infiltrating into the Harshaw Creek alluvial deposits in Section 26, downstream of the intersection of Harshaw Road and Harshaw Creek Road. Wells in Section 34 have likely been impacted from the discharge by a rise in water levels and an increase in the concentration of contaminants found in the discharge. The observation of surface water discharge in the creek suggests the aquifer in the area of the creek has been degraded beyond that caused by the natural habitat and the natural flow of Harshaw creek has been obviously interfered by the discharge.

WELLS ALONG HARSHAW CREEK

As shown on Figure 1 and in Table 1, there are 33 wells registered with the ADWR from Outfall 002 to conceptual POC 4 including 31 wells for domestic, irrigation and/or stock uses. Based on review of available well construction reports, several of these wells have screened intervals within the alluvium which will be or has been impacted by the discharge as it infiltrates into the groundwater. In wells which have deep screened intervals in finer-grained materials, several of these wells lack annular materials which would prevent the pumping of shallow water impacted by the discharge along the outside of the well.

Based on review of available data including lithology, well construction and water levels, 24 wells (shown in Table 1) along Harshaw Creek from Outfall 002 to conceptual POC 4 are in connection with surface water and will be or are already impacted by contaminants in the discharge which are above drinking water standards.

DISCHARGE WATER QUALITY

The Permit does not require the water quality of the discharge to be potable as shown in Table 2. In fact, the permit allows for the discharge of the following contaminants above drinking water standards:

- Lead – The drinking water standard for lead is zero, the permit allows over 8 parts per billion.
- Antimony – Permit allows for over 81 times the drinking water standard.
- Arsenic - Permit allows for over 12 times the drinking water standard.
- Barium - Permit allows for 49 times the drinking water standard.
- Boron - Permit allows for 93 times the drinking water standard.
- Chromium- Permit allows for 10 times the drinking water standard.
- Nitrate – Contained in drilling fluids and explosives used blast the shaft, is unlimited.
- Thallium - Permit allows for over 37 times the drinking water standard.
- Sulfate - Unlimited discharge is allowed by the Permit as Secondary Standards are not regulated.
- Manganese – Unlimited discharge is allowed by the Permit as it's not regulated but does have a health advisory value of 300 ppb which should be considered.

The water quality of Harshaw Creek, public waters (surface and groundwater) will be or has been degraded by the discharge water quality allowed in the Permit as the discharge is not associated with the natural habitat.

CONCLUSION

The connection between surface water, groundwater and domestic wells in the Harshaw Creek area has been demonstrated in the previous sections. There is a pathway for contaminants in the discharge, including lead and arsenic, into people. The ADEQ and the EPA have a duty to protect citizens against drinking contaminated groundwater. If Flint, Michigan was a mistake, this Permit is the opposite. If the Permit is granted, this will be permitted poisoning of the people by the agencies who have a duty to protect us. This violates ADEQ's own statutory duties, A.R.S. § 49-104(A)(1), (7), (9) and (10). ADEQ has ignored it's core obligations and responsibilities and should make every effort to correct it's actions and withdraw this Permit.

Chris Gardner
PO Box 1100, Patagonia, AZ 85624

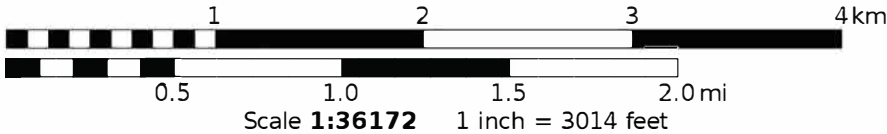
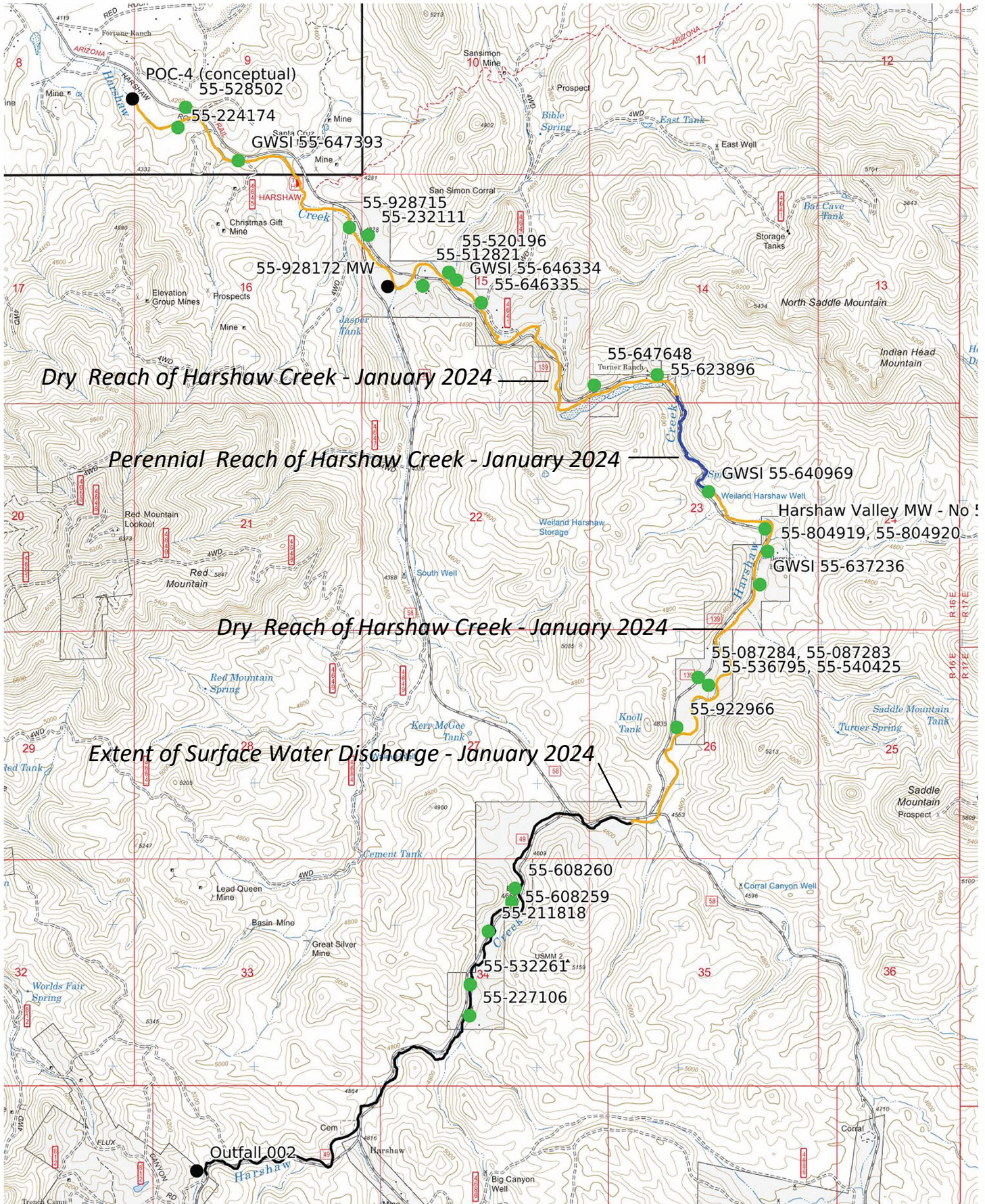
Attached:

Figure 1 - Wells Along Harshaw Creek from Outfall 002 to Conceptual POC 4

Table 1 - ADWR Registered Wells Along Harshaw Creek from Outfall 002 to Conceptual POC 4 and Wells with Connection to Surface Water

Table 2 - Draft Permit Effluent Limitations and Assessment Levels for Discharge to Harshaw Creek ADWR Imaged Records – 55-224174, 55-646335 (35-36743), 55-922966, 55-540425, 55-211818, 55-227106

Figure 1 - Wells along Harshaw Creek from Outfall 002 to Conceptual POC 4



**Table 1 - ADWR Registered Wells Along Harshaw Creek from Outfall 002 to Conceptual POC 4
and Wells with Possible Connection to Surface Water**

| ADWR Registry Number | GWSI Data Available | Cadastral Location (sorted by section, downstream to upstream) | Owner Name | Well Type | Well Depth (ft) | Drill Date | Application Date | Water Level (ft) | Pump Capacity (GPM) | Log Received | Available Data Which Suggest Possible Connection with Surface Water |
|----------------------|---------------------|--|------------------------------------|------------|-----------------|------------|------------------|------------------|---------------------|--------------|---|
| 55-500276 | | D(22-16)09CAB | LEWIS, J B | EXEMPT | 468 | 6/1/1981 | 6/26/1981 | 448 | 18 | X | |
| 55-500277 | | D(22-16)09CBA | MARTIN, D W | EXEMPT | 200 | | 6/26/1981 | 0 | 0 | | |
| 55-528502 | | D(22-16)09CBD | MARTIN, DAVE, | EXEMPT | 200 | 8/8/1990 | 6/15/1990 | 142 | 12 | X | |
| 55-224174 | | D(22-16)09CCA | LONG FAR INVESTMENTS, LLC | EXEMPT | 100 | 5/20/2015 | 12/4/2014 | 60 | 6 | X | |
| 55-647393 | X | D(22-16)09CDD | GWYN STERN ENRIGHT TRUST | EXEMPT | 60 | 8/7/1945 | 6/14/1982 | 29 | 5 | | X |
| 55-928715 | | D(22-16)16ADD | HARSHAW CREEK RANCH LLC | EXEMPT | 100 | 9/12/2022 | 9/9/2022 | 59 | | X | X |
| 55-232111 | | D(22-16)15BBC | REDROCK THOR LLC | EXEMPT | 140 | 5/24/2020 | 3/30/2020 | 47 | 7 | X | X |
| 55-928172 | | D(22-16)15BCC | ARIZONA MINERALS | MONITOR | 51 | 6/29/2022 | 5/18/2022 | 35 | | X | X |
| 55-512821 | | D(22-16)15BCD | MARY JANE POTTEBAUM | EXEMPT | 120 | 11/18/1985 | 11/18/1985 | 20 | 20 | X | X |
| 55-646334 | X | D(22-16)15BDC | CONLEY, R E | EXEMPT | 60 | | 6/14/1982 | 0 | 35 | | X |
| 55-520196 | | D(22-16)15BDD | 2718, LLC | EXEMPT | 180 | 2/14/1988 | 2/5/1988 | 21 | 0 | X | X |
| 55-646335 | | D(22-16)15BDB | CONLEY, R E | NON-EXEMPT | 50 | 3/17/1976 | 6/14/1982 | 26 | 35 | X | X |
| 55-623896 | | D(22-16)14CCA | TURNER, J D | NON-EXEMPT | 30 | 6/28/1948 | 6/14/1982 | 15 | 125 | | X |
| 55-647648 | | D(22-16)14CCC | TURNER, J D | EXEMPT | 26 | 1/1/1912 | 6/14/1982 | 15 | 6 | | X |
| 55-640969 | X | D(22-16)23ACO | CORONADO NATL FOREST, | EXEMPT | | 1/1/1973 | 6/7/1982 | 0 | 0 | | X |
| 55-087040 | | D(22-16)23CAB | ALDEN, K F | EXEMPT | 0 | | 2/25/1981 | 0 | 0 | | |
| 55-804920 | | D(22-16)23DAC | DAVID W & KATE KOZLOWSKI PEAKE III | EXEMPT | 25 | | 8/3/1987 | 0 | 0 | | X |
| 55-804919 | | D(22-16)23DAC | DAVID W & KATE KOZLOWSKI PEAKE III | EXEMPT | 100 | | 8/3/1987 | 0 | 0 | | X |
| 55-637236 | X | D(22-16)23DCO | ESPERANZA RANCH, | EXEMPT | 25 | | 6/7/1982 | 20 | 5 | | X |
| 55-540425 | | D(22-16)26ACB | LEE ROGERS | NON-EXEMPT | 36 | 7/18/1994 | 8/20/1993 | 18 | 0 | X | X |
| 55-536795 | | D(22-16)26ACB | ROGERS, LEE, | NON-EXEMPT | 291 | 3/18/1993 | 9/23/1992 | 25 | 2 | X | X |
| 55-219045 | | D(22-16)26ACB | LEE ROGERS | EXEMPT | | | 7/7/2009 | | | | |
| 55-087041 | | D(22-16)26BAA | LAURA CHESTER | EXEMPT | 0 | | 2/25/1981 | 0 | 0 | | |
| 55-087284 | | D(22-16)26BAD | MICHAEL HOWARD | EXEMPT | 120 | 4/7/1981 | 3/26/1981 | 20 | 0 | | X |
| 55-087283 | | D(22-16)26BAD | MICHAEL HOWARD | EXEMPT | 160 | 4/5/1981 | 3/26/1981 | 22 | 0 | | X |
| 55-922966 | | D(22-16)26BAD | MICHAEL HOWARD | EXEMPT | 400 | 8/14/2019 | 5/13/2019 | 72 | | X | X |
| 55-085452 | | D(22-16)26BDC | LOCK, R L | EXEMPT | 200 | 2/20/1981 | 8/8/1980 | 30 | 0 | | |
| 55-608260 | | D(22-16)34ABA | ARIZONA MINERALS INC | EXEMPT | 110 | | 5/12/1982 | 18 | 5 | | X |
| 55-608259 | | D(22-16)34ABD | ARIZONA MINERALS | EXEMPT | 97 | | 5/12/1982 | 19 | 3 | | X |
| 55-928171 | | D(22-16)34ABD | ARIZONA MINERALS | MONITOR | 43 | 6/29/2022 | 5/18/2022 | 16 | | X | |
| 55-211818 | | D(22-16)34ACB | ANNA T URIAS | EXEMPT | 160 | 8/16/2006 | 4/6/2006 | 15 | 10 | X | X |
| 55-227106 | | D(22-16)34BCA | JOSEFINA SOTO | EXEMPT | 140 | 5/17/2017 | 3/27/2017 | 60 | | X | X |
| 55-532261 | | D(22-16)34CAA | SOTO, MIGUEL, D | EXEMPT | 273 | 7/11/1991 | 6/25/1991 | 63 | 15 | X | X |

Notes: ADWR Well Registry database queried 11/30/2023. Data which suggest possible connection with surface water includes lithologic descriptions, water levels and well construction details from the ADWR Well Registry database, imaged files and the GWSI database.

Table 2 - Draft Permit Effluent Limitations and Assessment Levels for Discharge to Harshaw Creek

| Parameter | Monthly Average | Primary Drinking Water Standard, Public Health Goal or Health Advisory | Discharge Concentrations / Primary Drinking Water Standard, Goal or Advisory | Notes |
|-----------|---|--|--|---|
| Lead | 8.71 µg/L | 0 µg/L | Can't calculate, there should be no lead in drinking water | Public Health Goal is zero. Infants and children: Delays in physical or mental development; children could show slight deficits in attention span and learning abilities; Adults: Kidney problems; high blood pressure |
| Antimony | 491 µg/L | 6 µg/L | 81.8 | Increase in blood cholesterol; decrease in blood sugar |
| Arsenic | 123 µg/L | 10 µg/L | 12.3 | Skin damage or problems with circulatory systems, and may have increased risk of getting cancer |
| Barium | 98,000 µg/L | 2,000 µg/L | 49 | Increase in blood pressure |
| Beryllium | 4.3 µg/L | 4 µg/L | 1.1 | Intestinal lesions |
| Boron | 186,667 µg/L | 2,000 µg/L | 93 | Longer Term Health Advisory (2.0 mg/L) for children, risk for the potential effect on the testes of young males increases when consumed for the duration indicated by the advisory. Longer Term Health Advisory and Lifetime Health Advisory for adults (5 mg/L), the risk for the potential effect on the fetuses of pregnant women and the testes of males increases. |
| Chromium | 1000 µg/L | 100 µg/L | 10 | Allergic dermatitis |
| Nitrate | only reported | 10 mg/L | Can't calculate, no limit on the discharge of nitrate | Infants below the age of six months who drink water containing nitrate in excess of the MCL could become seriously ill and, if untreated, may die. Symptoms include shortness of breath and blue-baby syndrome. |
| Thallium | 75 µg/L | 2 µg/L | 37.5 | Hair loss; changes in blood; kidney, intestine, or liver problems |
| Manganese | <i>Not regulated, not in the Permit</i> | 300 µg/L | <i>Can't calculate, no limit on the discharge of manganese</i> | <i>The lifetime health advisory value of 0.3 mg/L will protect against concerns of potential neurological effects.</i> |

Sources: National Primary Drinking Water Regulations EPA 816-F-09-004, May 2009
 Summary Document from the Health Advisory for Boron and Compounds, Document Number: 822-S-08-003
 Drinking Water Health Advisory for Manganese, EPA-822-R-04-003, January, 2004



Arizona Department of Water Resources
 1802 W Jackson St. Box #79
 Phoenix, AZ 85007
 (602) 771-8527 - www.azwater.gov

Pump Installation Completion Report

WELL REGISTRATION NUMBER
55-224174

Pursuant to Arizona Revised Statutes (A.R.S.) 45-600(B), the person to whom a well is registered must notify Arizona Department of Water Resources (ADWR) of an installation of a pump on the well.

| SECTION 1. Registry Information | | | | | | | | | |
|---|-------------|---------|----------|---------|---------|------|-----|--------|--|
| Location of Well | | | | | | | | | |
| TOWNSHIP (N/S) | RANGE (E/W) | SECTION | 160 ACRE | 40 ACRE | 10 ACRE | BOOK | MAP | PARCEL | |
| 22S | 16E | 9 | SW | SW | NE | 106 | 42 | 010E | |
| Well Owner | | | | | | | | | |
| FULL NAME OF COMPANY, ORGANIZATION, OR INDIVIDUAL | | | | | | | | | |
| LONG FAR INVESTMENTS, LLC | | | | | | | | | |
| MAILING ADDRESS | | | | | | | | | |
| 2539 N BALBOA AVENUE | | | | | | | | | |
| CITY / STATE / ZIP | | | | | | | | | |
| TUCSON, AZ 85705 | | | | | | | | | |

| SECTION 2. Equipment Installed | |
|---|---|
| Date Pump Installed: 12/29/2022 | |
| Pump Type | Pitless Adaptor |
| SUBMERSIBLE Other: | Was a pitless adaptor installed? <input type="checkbox"/> N |
| Rated Pump Capacity: 6 Gallons Per Minute | If Yes, depth below ground level the device was installed |
| Power Type | <input type="text"/> Feet |
| ELECTRIC MOTOR 1 - 5 HP Other: | |

| SECTION 3. Pump Test | |
|---|------------------------------------|
| Test Data | Method of Discharge Measurement |
| Date Well Tested: 12/29/2022 | BUCKET - BARREL - STOPWATCH |
| Static Water Level: 46 Feet Below Land Surface | Other: <input type="text"/> |
| Pumping Water Level: 46 Feet Below Land Surface | |
| Drawdown: 0 Feet Below Land Surface | |
| Test Pumping Rate: 6 Gallons Per Minute | Method of Measuring Water |
| Duration of Pump Test: 4 Hours | Sounder |
| Total Pumping Lift: 46 Feet | Other: <input type="text"/> |
| For flowing well, Measured Shut in Head: | |

| SECTION 4. Well Owner Signature | |
|---|-----------------------|
| I HEREBY CERTIFY that the above statements are true to the best of my knowledge and belief. | |
| PREPARED BY | DATE |
| tom Klittle | 12/29/2022 2:23:05 PM |



Arizona Department of Water Resources
 Information Management Unit
 PO Box 36020 • Phoenix, Arizona 85067-36020
 (602) 771-8527 • 602-771-8500

**Well Driller Report
 and
 Well Log**

RECEIVED
 JUN 12 2015
 ARIZONA DEPARTMENT
 OF WATER RESOURCES

THIS REPORT MUST BE FILED WITHIN **30 DAYS** OF COMPLETING THE WELL.
 PLEASE PRINT CLEARLY USING BLACK OR BLUE INK

FILE NUMBER
D(22-16) 9 CCA
 WELL REGISTRATION NUMBER
55 - 224174
 PERMIT NUMBER (IF ISSUED)

SECTION 1. DRILLING AUTHORIZATION

| Drilling Firm | | |
|-----------------|---|----------------------------------|
| Mail To: | NAME PATAGONIA TRADING COMPANY, LLC | DWR LICENSE NUMBER 841 |
| | ADDRESS P.O. BOX 232 | TELEPHONE NUMBER 520-860-0030 |
| | CITY / STATE / ZIP SONOITA, AZ, 85637-0232 | FAX |

SECTION 1. REGISTRY INFORMATION

| Well Owner | | Location of Well | | | | | |
|---|--|---|------------------------------|---|-----------------|---|----------------|
| FULL NAME OF COMPANY, ORGANIZATION, OR INDIVIDUAL TRES PIEDRAS, LLC | | WELL LOCATION ADDRESS (IF ANY) | | | | | |
| MAILING ADDRESS 422 N. 5TH AVENUE | | TOWNSHIP (N/S) | RANGE (E/W) | SECTION | 160 ACRE 1/4 | 40 ACRE 1/4 | 10 ACRE 1/4 |
| CITY / STATE / ZIP TUCSON, AZ, 85705 | | LATITUDE 31° 31' 53" N | LONGITUDE -110° 43' 19" W | | | | |
| CONTACT PERSON NAME AND TITLE | | METHOD OF LATITUDE/LONGITUDE (CHECK ONE) | | | | <input checked="" type="checkbox"/> *GPS: Hand-Held | |
| TELEPHONE NUMBER 520 333-0048 | | FAX | | LAND SURFACE ELEVATION AT WELL 4074 Feet Above Sea Level | | | |
| WELL NAME (e.g., MW-1, PZ-3, lot 25 Well, Smith Well, etc.) | | METHOD OF ELEVATION (CHECK ONE) | | | | <input checked="" type="checkbox"/> *GPS: Hand-Held | |
| | | <input type="checkbox"/> USGS Quad Map <input type="checkbox"/> Conventional Survey <input type="checkbox"/> *GPS: Survey-Grade | | | | | |
| *IF GPS WAS USED, GEOGRAPHIC COORDINATE DATUM (CHECK ONE) | | | | | | | |
| <input type="checkbox"/> NAD-83 <input type="checkbox"/> Other (please specify) | | | | | | | |
| COUNTY Santa Cruz | | ASSESSOR'S PARCEL ID NUMBER (MOST RECENT) | | | | | |
| | | BOOK 106 | MAP 42 | PARCEL 010E | | | |

SECTION 3. WELL CONSTRUCTION DETAILS

| Drilling Method | Method of Well Development | Method of Sealing at Reduction Points |
|---|--|--|
| CHECK ONE <input type="checkbox"/> Air Rotary <input checked="" type="checkbox"/> Bored or Augered <input checked="" type="checkbox"/> Cable Tool <input type="checkbox"/> Dual Rotary <input type="checkbox"/> Mud Rotary <input type="checkbox"/> Reverse Circulation <input type="checkbox"/> Driven <input type="checkbox"/> Jetted <input type="checkbox"/> Air Percussion / Odex Tubing <input type="checkbox"/> Other (please specify) | CHECK ONE <input checked="" type="checkbox"/> Airlift <input checked="" type="checkbox"/> Bail <input type="checkbox"/> Surge Block <input type="checkbox"/> Surge Pump <input type="checkbox"/> Other (please specify) Condition of Well CHECK ONE <input checked="" type="checkbox"/> Capped <input type="checkbox"/> Pump Installed | CHECK ONE <input checked="" type="checkbox"/> None <input type="checkbox"/> Packed <input type="checkbox"/> Swedged <input type="checkbox"/> Welded <input type="checkbox"/> Other (please specify) |
| | | Construction Dates DATE WELL CONSTRUCTION STARTED 3-15-15 DATE WELL CONSTRUCTION COMPLETED 5-20-15 |

I state that this notice is filed in compliance with A.R.S. § 45-596 and is complete and correct to the best of my knowledge and belief.

SIGNATURE OF QUALIFYING PARTY: *[Signature]* DATE: 6-10-15

REPORT OF WELL DRILLER

This report should be prepared by the driller in all detail and filed with the State Land Commissioner following completion of the well.

1. OWNER Richard E. Conley Name
Rocking Chair Ranch, P.O. Box 255, Patagonia, Arizona 85624 Address
2. Lessee or Operator Name
 Address
3. DRILLER Charles Inman Name
Boox 116, Patagonia, Arizona 85624 Address
4. Location of well: Twp 22S Rge 16E Section 10 15 SE NW SE SE
10-acre subdivision
5. Intention to Drill File No. Permit No.

DESCRIPTION OF WELL

6. Total depth of hole 50 ft.
7. Type of casing 8 inch ID, 1/4 WALL STEEL
8. Diameter and length of casing 0 in. from 0 to 45 FT in. from 0 to 0 in. from 0 to 0
9. Method of sealing at reduction points HARD ROCK SHOULDER
10. Perforated from 20 FT to 45, from 0 to 0, from 0 to 0, from 0 to 0
11. Size of cuts 1/4 Number of cuts per foot 2
12. If screen was installed: Length 0 ft. Diam 0 in. Type 0
13. Method of construction DRILLED WITH CABLE TOOL
drilled, dug, driven, bored, jetted, etc.
14. Date started MAR 27 12 76
Month Day Year
15. Date completed MAR 27 12 76
Month Day Year
16. Depth of water 25 ft.
If flowing well, so state.
17. Describe point from which depth measurements were made, and give sea-level elevation if available. BROWN D. LEVEL
APP. 4,670 FT. ABOVE SEA LEVEL
18. If flowing well, state method of flow regulation 0

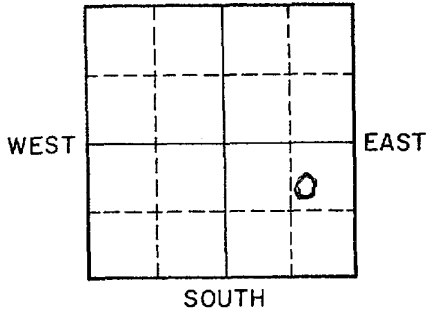
19. REMARKS:

| | |
|--------------------------------|------------------|
| DO NOT WRITE IN THIS SPACE | |
| OFFICE RECORD | |
| Received <u>5-10-76</u> | by <u>K. tl.</u> |
| Filed _____ | by _____ |
| File No. <u>D(22-16)16 ddb</u> | |
| <u>35-36743</u> | |

STATE LAND DEPARTMENT
Water Division
Phoenix, Arizona 85007

File No. D(22-16)16-~~add~~ ^{15 dbd}

Location of Well
NORTH



REPORT OF EQUIPMENT INSTALLED

OWNER Richard E. Conley

LOCATION OF WELL:

SE SW
~~NW~~ $\frac{1}{4}$ SE $\frac{1}{4}$ SE $\frac{1}{4}$, Sec. 15
~~16~~ Twp. 22S Rge. 16E

Date Well Completed: _____ Depth _____

(Indicate Well Location by a circle "o" in the above Section Plat)

1. Well Test:

Discharge: 12 TO 15 Date Well Tested: MARCH, 17-76
(Gal. Per Min.)

Method of Discharge Measurement: 20 GAL. BAILEY'S
(weir, orifice, current meter, etc.)

Static Water Level: 26 ft. Drawdown 38 ft.

Total Pumping Lift 42 ft.

2. Equipment Installed:

Kind of Pump: 1/2 HP SUBMERSIBLE
(turbine, centrifugal, etc.)

Kind of Power: ELECTRIC H. P. Rating of Motor 1/2
(Elec., Nat. Gas, Etc.)

I HEREBY CERTIFY that all the above statements are true to the best of my knowledge and belief.

Charles J. Cannon
Signature

Date April 14, 1976

Battle Mountain Arizona
Address

RECEIVED



Arizona Department of Water Resources
 Groundwater Permitting and Wells
 PO Box 36020 • Phoenix, Arizona 85067-6020
 (602) 771-8527 • 602-771-8500
 www.azwater.gov

Well Driller Report and Well Log

CJ

*THIS REPORT MUST BE FILED WITHIN 30 DAYS OF COMPLETING THE WELL.
 PURSUANT TO ARIZONA REVISED STATUTE 45-600 AND A.A.C. RULE
 R12-15-808.*

| |
|---------------------------|
| FILE NUMBER |
| D(22-16) 26 BAC |
| WELL REGISTRATION NUMBER |
| 55 - 922966 |
| PERMIT NUMBER (IF ISSUED) |

PLEASE PRINT CLEARLY USING BLACK OR BLUE INK

SECTION 1. DRILLING AUTHORIZATION

| Drilling Firm | | |
|-----------------|--|----------------------------------|
| Mail To: | NAME B-J DRILLING COMPANY, INC. | DWR LICENSE NUMBER 25 |
| | ADDRESS P.O. BOX 815 | TELEPHONE NUMBER 520-586-3282 |
| | CITY / STATE / ZIP BENSON, AZ, 85602-0815 | FAX |

SECTION 1. REGISTRY INFORMATION

| Well Owner | | Location of Well | | | | | |
|---|-----|---|--|---------------|----------------------|-------------------|-------------------|
| FULL NAME OF COMPANY, ORGANIZATION, OR INDIVIDUAL CHESTER, LAURA | | WELL LOCATION ADDRESS (IF ANY) | | | | | |
| MAILING ADDRESS 364 HARSHAW CREEK ROAD | | TOWNSHIP (N/S) 22S | RANGE (E/W) 16E | SECTION 26 | 160 ACRE NW 1/4 | 40 ACRE NE 1/4 | 10 ACRE SW 1/4 |
| CITY / STATE / ZIP PATAGONIA, AZ, 85624 | | LATITUDE DEGREES | MINUTES | SECONDS "N | LONGITUDE DEGREES | MINUTES | SECONDS "W |
| CONTACT PERSON NAME AND TITLE Laura Chester | | METHOD OF LATITUDE/LONGITUDE (CHECK ONE) <input type="checkbox"/> *GPS: Hand-Held <input type="checkbox"/> Conventional Survey <input type="checkbox"/> *GPS: Survey-Grade | | | | | |
| TELEPHONE NUMBER 413 717 0012 | FAX | LAND SURFACE ELEVATION AT WELL Feet Above Sea Level | | | | | |
| WELL NAME (e.g., MW-1, PZ-3, lot 25 Well, Smith Well, etc.) | | METHOD OF ELEVATION (CHECK ONE) <input type="checkbox"/> *GPS: Hand-Held <input type="checkbox"/> Conventional Survey <input type="checkbox"/> *GPS: Survey-Grade | | | | | |
| | | *IF GPS WAS USED, GEOGRAPHIC COORDINATE DATUM (CHECK ONE) <input type="checkbox"/> NAD-83 <input type="checkbox"/> Other (please specify) | | | | | |
| | | COUNTY SANTA CRUZ | ASSESSOR'S PARCEL ID NUMBER (MOST RECENT) BOOK 106 MAP 24 PARCEL 003B | | | | |

SECTION 3. WELL CONSTRUCTION DETAILS

| Drilling Method | Method of Well Development | Method of Sealing at Reduction Points |
|--|---|---|
| CHECK ONE <input checked="" type="checkbox"/> Air Rotary <input type="checkbox"/> Bored or Augered <input type="checkbox"/> Cable Tool <input type="checkbox"/> Dual Rotary <input type="checkbox"/> Mud Rotary <input type="checkbox"/> Reverse Circulation <input type="checkbox"/> Driven <input type="checkbox"/> Jetted <input type="checkbox"/> Air Percussion / Odex Tubing <input type="checkbox"/> Other (please specify) | CHECK ONE <input checked="" type="checkbox"/> Airlift <input type="checkbox"/> Bail <input type="checkbox"/> Surge Block <input type="checkbox"/> Surge Pump <input type="checkbox"/> Other (please specify) | CHECK ONE <input type="checkbox"/> None <input type="checkbox"/> Packed <input type="checkbox"/> Swedged <input type="checkbox"/> Welded <input checked="" type="checkbox"/> Other (please specify) neat cement |
| | Condition of Well | Construction Dates |
| | CHECK ONE <input checked="" type="checkbox"/> Capped <input type="checkbox"/> Pump Installed <input type="checkbox"/> Abandoned | DATE WELL CONSTRUCTION STARTED 8/13/19 |
| | | DATE WELL CONSTRUCTION COMPLETED 8/14/19 |

I state that this notice is filed in compliance with A.R.S. § 45-596 and is complete and correct to the best of my knowledge and belief.

| | |
|-----------------------------------|-----------------|
| SIGNATURE OF QUALIFYING PARTY | DATE 8/22/19 |
|-----------------------------------|-----------------|

Well Driller Report and Well Log

WELL REGISTRATION NUMBER
55 - 922966

SECTION 4. WELL CONSTRUCTION DESIGN (AS BUILT) (attach additional page if needed)

| Depth | |
|--|--|
| DEPTH OF BORING 400' Feet Below Land Surface | DEPTH OF COMPLETED WELL 400' Feet Below Land Surface |

| Water Level Information | | | |
|--|--------------------------|---------------|--|
| STATIC WATER LEVEL 72' Feet Below Land Surface | DATE MEASURED 3/14/19 | TIME MEASURED | IF FLOWING WELL, METHOD OF FLOW REGULATION <input type="checkbox"/> Valve <input type="checkbox"/> Other: |

| Borehole | | | Installed Casing | | | | | | | | | | | | | | |
|--------------------|-----------|----------------------------|--------------------|-----------|----------------|-------------------|-----|-----|-------------------------|----------------------|-----------|----------------|-------------|---------|--------------------|-------------------------|--|
| DEPTH FROM SURFACE | | BOREHOLE DIAMETER (inches) | DEPTH FROM SURFACE | | OUTER (inches) | MATERIAL TYPE (X) | | | | PERFORATION TYPE (X) | | | | | SLOT SIZE (inches) | | |
| FROM (feet) | TO (feet) | | FROM (feet) | TO (feet) | | STEEL | PVC | ABS | IF OTHER TYPE, DESCRIBE | BLANK OR NONE | WIRE WRAP | SHUTTER SCREEN | MILLS KNIFE | SLOTTED | | IF OTHER TYPE, DESCRIBE | |
| 0 | 20 | 12 | +1 | 20 | 8 | X | | | | | X | | | | | | |
| 20 | 400 | 7 5/8 | 0 | 300 | 5 | | X | | | | X | | | | | | |
| | | | 300 | 400 | 5 | | X | | | | | | | X | | | |

| Installed Annular Material | | | | | | | | | | | | |
|----------------------------|-----------|---------------------------|----------|-----------------------------|------------------------|-----------|-------|---------|---|------|--------|------|
| DEPTH FROM SURFACE | | ANNULAR MATERIAL TYPE (X) | | | | | | | FILTER PACK | | | |
| FROM (feet) | TO (feet) | NONE | CONCRETE | NEAT CEMENT OR CEMENT GROUT | CEMENT-BENTONITE GROUT | BENTONITE | | | IF OTHER TYPE OF ANNULAR MATERIAL, DESCRIBE | SAND | GRAVEL | SIZE |
| | | | | | | GROUT | CHIPS | PELLETS | | | | |
| 0 | 20 | | | X | | | | | | | | |
| | | | | | | | | | no annular material | | | |

ARIZONA DEPARTMENT OF WATER RESOURCES

Phoenix, Arizona 85007

DRILLING CARD

THIS AUTHORIZATION SHALL BE IN POSSESSION OF THE DRILLER DURING ALL DRILLING OPERATIONS

WELL REGISTRATION NO: **55-922966**

AUTHORIZED DRILLER: **B-J DRILLING COMPANY, INC.**

LICENSE NO: **25**

NOTICE OF INTENT TO **DRILL AN EXEMPT WELL** HAS BEEN FILED WITH THE DEPARTMENT BY:

WELL OWNER: **CHESTER, LAURA**

ADDRESS: **364 HARSHAW CREEK ROAD, PATAGONIA, AZ, 85624**

THE WELL(S) IS/ARE TO BE LOCATED IN THE:

SW 1/4 of the **NE** 1/4 of the **NW**1/4 Section **26** Township **22 S** Range **16 E**

NO. OF WELLS IN THIS PROJECT: **1** ASSESSOR'S PARCEL NO: **106-24-003B**

THIS AUTHORIZATION EXPIRES AT MIDNIGHT ON THE DAY OF **5/13/2020**

THE DRILLER MUST FILE A WELL DRILLER REPORT AND WELL LOG WITHIN 30 DAYS OF COMPLETION OF DRILLING



This drilling or abandonment authority was granted based upon the certifications made by the above-named Driller in the notice of intent to drill or abandon. Those certifications, along with any variances granted, are listed below. By drilling or abandoning the well pursuant to this authorization, the above-named driller acknowledges the accuracy of the driller certifications. If the certifications are in error, this authorization is invalid and driller must contact the Department of Water Resource's NOI Section in writing at the address above to correct.

Variance(s) Granted To Driller: **None**

Certification(s) Made By Driller:

- By checking this box, I certify that I have all necessary Registrar of Contractor (ROC) licenses in all necessary license categories for this drilling or abandonment project and that those licenses are current.
- By checking this box, I certify that I have been authorized by the above-named well owner to submit this Notice of Intent on the well owner's behalf.
- By checking this box, I certify that I have obtained written certification from the land owner stating that the proposed well site is not within 100 feet of any septic tank system, sewage disposal area, landfill, hazardous waste facility, storage area of hazardous materials or petroleum storage areas and tanks. A copy of the land owner's written certification shall be submitted to ADWR with the Well Driller Report and Well Log or the Well Abandonment Completion Report within 30 days of completion of drilling or abandonment.
- By checking this box, I certify that the information above is complete and correct, and that the well shall be drilled or abandoned in compliance with all pertinent statutes and rules, including any special standards that may be required to protect the aquifer or other water sources.
- By checking this box, I certify that the proposed well site is not within 100 feet of any septic tank system, sewage disposal area, landfill, hazardous waste facility, storage area of hazardous materials or petroleum storage areas and tanks.

WELL DRILLER REPORT

This report should be prepared by the driller in all detail and filed with the Department within 30 days following completion of the well.

- Owner Name: Lee Rogers
Address: PO Box 1125 Patagonia Az. 85624
Street City State Zip
- Driller Name: L.B. Drilling
Address: Box 4166 Huachuca City Az. 85616
Street City State Zip
- Location: 22 N(S) 16 (E)W 26 NW1/4 SW1/4 NE1/4
Township Range Section 10-acre 40-acre 160-acre
- Well Registration No. 55- 540425 (Required)
- Permit No. _____ (If issued)

DESCRIPTION OF WELL

- Total depth of hole 36 ft.
- Type of casing Steel
- Diameter and length of casing 6 in. from 0 to 36, _____ in from _____ to _____.
- Method of sealing at reduction points _____
- Perforated from 36 to 21, from _____ to _____, from _____ to _____.
- Size of cuts 1/8 Number of cuts per foot three
- If screen was installed: Length _____ ft. Diam _____ in. Type _____
- Method of construction drilled air
(drilled, dug, driven, bored, jetted, etc)
- Date started July 18 1994
Month Day Year
- Date completed July 18 1994
Month Day Year
- Depth to water 18 ft. (If flowing well, so state)
- Describe point from which depth measurements were made, and give sea-level elevation if available
ground level
- If flowing well, state method of flow regulation: N.A.
- Remarks: blew 7 gpm.

| | |
|---|---------------------------|
| DO NOT WRITE IN THIS SPACE OFFICE RECORD | |
| Registration No. | <u>55-540425</u> |
| File No. | <u>D-22-16) 26 acb</u> |
| Received | By _____ |
| Entered | ENTERED AUG 8 1994 |



Arizona Department of Water Resources
 Information Management Unit
 P.O. Box 33589, Phoenix, AZ 85067-3589
 (602) 771-8627 • (800) 352-8488
 www.azwater.gov

Pump Installation Completion Report

RECEIVED

JAN 14 2008

FILE NUMBER
 D22-1634A-EB
 WELL REGISTRATION NUMBER
 55 - 211818

- Review instructions prior to completing form in black or blue ink.
- The registered well owner should file this report with the Department within 30 days following installation of pump equipment.

**** PLEASE PRINT CLEARLY ****

INFO MGMT

| SECTION 1. REGISTRY INFORMATION | |
|--|--|
| Well Owner | Location of Well |
| FULL NAME OF COMPANY, ORGANIZATION, OR INDIVIDUAL ANNA T. URIAS | WELL LOCATION ADDRESS (IF ANY) |
| MAILING ADDRESS Box 705 | TOWNSHIP (N/S) RANGE (E/W) SECTION 160 ACRE 40 ACRE 10 ACRE 22 S 16 E 34 NW ¼ SW ¼ NE ¼ |
| CITY / STATE / ZIP CODE PATAGONIA, AZ 85624 | COUNTY ASSESSOR'S PARCEL ID NUMBER (MOST RECENT) BOOK MAP PARCEL 106 54 003 A |
| CONTACT PERSON NAME AND TITLE | COUNTY WHERE WELL IS LOCATED SANTA CRUZ |
| TELEPHONE NUMBER 520 394-2485 | FAX |

DS

| SECTION 2. EQUIPMENT INSTALLED | |
|---|--|
| DATE PUMP INSTALLED 3-2-2007 | Pitless Adaptor CHECK ONE (SEE INSTRUCTIONS FOR DEFINITION) Was a pitless adaptor installed? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| Pump Type CHECK ONE | IF YES, DEPTH BELOW GROUND LEVEL THE DEVICE WAS INSTALLED Feet |
| <input type="checkbox"/> Air Lift <input type="checkbox"/> Bucket <input type="checkbox"/> Centrifugal <input type="checkbox"/> Jet <input type="checkbox"/> Piston <input type="checkbox"/> Rotary <input checked="" type="checkbox"/> Submersible <input type="checkbox"/> Turbine <input type="checkbox"/> Other (please specify): | Power Type CHECK ONE <input type="checkbox"/> Diesel Engine <input checked="" type="checkbox"/> Electric Motor <input type="checkbox"/> Gasoline Engine <input type="checkbox"/> Hand <input type="checkbox"/> Natural Gas <input type="checkbox"/> Windmill <input type="checkbox"/> Other (please specify): |
| RATED PUMP CAPACITY 10 GPM Gallons Per Minute | HORSE POWER RATING OF MOTOR |

| SECTION 3. PUMP TEST | | |
|---|--|---|
| Pump Test Data | Method of Discharge Measurement | Method of Measuring Water Level |
| DATE WELL TESTED 3-2-2007 | CHECK ONE <input type="checkbox"/> Bailer <input checked="" type="checkbox"/> Bucket - Barrel - Stopwatch <input type="checkbox"/> Current <input type="checkbox"/> Estimated - Air Lift <input type="checkbox"/> Gauge <input type="checkbox"/> Meter <input type="checkbox"/> Orifice <input type="checkbox"/> Volume <input type="checkbox"/> Weir - Flume <input type="checkbox"/> Other (please specify): | CHECK ONE <input type="checkbox"/> Air Line <input checked="" type="checkbox"/> Electric Measuring Line (Sonder) <input type="checkbox"/> Steel Tape <input type="checkbox"/> Other (please specify): |
| STATIC WATER LEVEL (A) 15' Feet Below Land Surface | | |
| PUMPING WATER LEVEL (B) 100' Feet Below Land Surface | | |
| DRAWDOWN [(B) - (A)] 85' Feet Below Land Surface | | |
| TEST PUMPING RATE 10 GPM Gallons Per Minute | | |
| DURATION OF PUMP TEST (Minimum 4 Hours) 4 HOURS Hours | | |
| TOTAL PUMPING LIFT 100' Feet | | |
| FOR FLOWING WELL, MEASURED SHUT IN HEAD N/A <input type="checkbox"/> FT <input type="checkbox"/> PSI | | |

I HEREBY CERTIFY that the above statements are true to the best of my knowledge and belief according to A.R.S. § 45-600(B).

SIGNATURE OF WELL OWNER: *Anna Urias* 1- DATE: 1-10-08

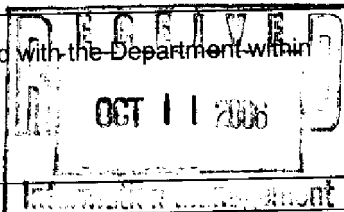


ARIZONA DEPARTMENT OF WATER RESOURCES
 Information Management Unit
 P.O. Box 458, Phoenix, Arizona 85001-0458
 (602) 771-8527 * (800) 352-8488
 www.water.az.gov

**Well Driller Report
 and
 Well Log**

FILE NUMBER
D(22-16) 34 ACB
 WELL REGISTRATION NUMBER
55- 211818
 PERMIT NUMBER (IF ISSUED)

This report should be prepared by the driller in detail and filed with the Department within 30 days following completion of the well.



**** PLEASE PRINT CLEARLY ****

| | | |
|-----------------|--|---|
| Mail To: | SECTION 1. DRILLING AUTHORIZATION | |
| | Drilling Firm | |
| | NAME BRADLY DRILLING | DWR LICENSE NUMBER 736 |
| | ADDRESS PO Box 4707 | TELEPHONE NUMBER 520-456-2355 |
| | CITY/STATE/ZIP HUACHUCA CITY, AZ 85616 | FAX |

| | | | | | |
|---|--|--|---|---|--------------------------|
| SECTION 2. REGISTRY INFORMATION | | | | | |
| Well Owner | | | Location of Well | | |
| FULL NAME OF COMPANY, ORGANIZATION OR INDIVIDUAL ANNA T URIAS | | | WELL LOCATION ADDRESS (IF ANY) | | |
| MAILING ADDRESS 334 SONOITA AVE BOX 705 | | | TOWNSHIP (N/S) 22S | RANGE (E/W) 16E | SECTION 34 |
| CITY / STATE / ZIP PATAGONIA, AZ 85624 | | | 160 ACRE NW 1/4 | 40 ACRE SW 1/4 | 10 ACRE NW 1/4 |
| CONTACT PERSON NAME AND TITLE | | | METHOD OF LATITUDE / LONGITUDE (CHECK ONE) | | |
| TELEPHONE NUMBER 520-394-2485 | | | <input type="checkbox"/> USGS Quad Map <input type="checkbox"/> Conventional Survey <input type="checkbox"/> *GPS: Hand-Held <input type="checkbox"/> *GPS: Survey-Grade | | |
| WELL NAME (e.g., MW-1, PZ-3, Lot 25 Well, Smith Well, etc.) | | | LAND SURFACE ELEVATION AT WELL | | |
| | | | Feet Above Sea Level | | |
| | | | METHOD OF ELEVATION (CHECK ONE) | | |
| | | | <input type="checkbox"/> USGS Quad Map <input type="checkbox"/> Conventional Survey <input type="checkbox"/> *GPS: Hand-Held <input type="checkbox"/> *GPS: Survey-Grade | | |
| | | | *IF GPS WAS USED, GEOGRAPHIC COORDINATE DATUM (CHECK ONE) | | |
| | | | <input type="checkbox"/> NAD-83 <input type="checkbox"/> Other (please specify): | | |
| | | | COUNTY Santa Cruz | ASSESSOR'S PARCEL ID NUMBER BOOK 106 | MAP 54 |
| | | | PARCEL 003A | | |

| | | |
|--|--|--|
| SECTION 3. WELL CONSTRUCTION DETAILS | | |
| Drill Method | Method of Well Development | Method of Sealing at Reduction Points |
| CHECK ONE <input checked="" type="checkbox"/> Air Rotary <input type="checkbox"/> Bored or Augered <input type="checkbox"/> Cable Tool <input type="checkbox"/> Dual Rotary <input type="checkbox"/> Mud Rotary <input type="checkbox"/> Reverse Circulation <input type="checkbox"/> Driven <input type="checkbox"/> Jetted <input type="checkbox"/> Air Percussion / Odex Tubing <input type="checkbox"/> Other (please specify) | CHECK ONE <input checked="" type="checkbox"/> Airlift <input type="checkbox"/> Bail <input type="checkbox"/> Surge Back <input type="checkbox"/> Surge Pump <input type="checkbox"/> Other (please specify) Condition of Well CHECK ONE <input checked="" type="checkbox"/> Capped <input type="checkbox"/> Pump Installed | CHECK ONE <input type="checkbox"/> None <input type="checkbox"/> Packed <input type="checkbox"/> Swedged <input type="checkbox"/> Welded <input checked="" type="checkbox"/> Other (please specify) NATIVE Construction Dates DATE WELL CONSTRUCTION STARTED 8-15-06 DATE WELL CONSTRUCTION COMPLETED 8-16-06 |

I state that this notice is filed in compliance with A.R.S. § 45-596 and is complete and correct to the best of my knowledge and belief.

| | | |
|---|---|-----------------------|
| DRILLING FIRM Bradly Drilling | SIGNATURE OF QUALIFYING PARTY <i>[Signature]</i> | DATE 9-1-06 |
|---|---|-----------------------|

Well Driller Report and Well Log

WELL REGISTRATION NUMBER
55-211818

SECTION 4. WELL CONSTRUCTION DESIGN (AS BUILT) (attach additional page if needed)

| | |
|--|--|
| DEPTH OF BORING <i>160'</i> Feet Below Land Surface | DEPTH OF COMPLETED WELL <i>160'</i> Feet Below Land Surface |
|--|--|

| Water Level Information | | | |
|--|---------------------------------|------------------------------|--|
| STATIC WATER LEVEL <i>15'</i> Feet Below Land Surface | DATE MEASURED <i>8-16-06</i> | TIME MEASURED <i>NOON</i> | IF FLOWING WELL, METHOD OF FLOW REGULATION <input type="checkbox"/> Valve <input type="checkbox"/> Other: |

| Borehole | | | Installed Casing | | | | | | | | | | | | | |
|--------------------|------------|----------------------------|--------------------|------------|-------------------------|-------------------|----------|-----|-------------------------|---------------|-----------|----------------|-------------|---------------------------|---------|-------------------------|
| DEPTH FROM SURFACE | | BOREHOLE DIAMETER (inches) | DEPTH FROM SURFACE | | OUTER DIAMETER (inches) | MATERIAL TYPE (X) | | | PERFORATION TYPE (X) | | | | | SLOT SIZE IF ANY (inches) | | |
| FROM (feet) | TO (feet) | | FROM (feet) | TO (feet) | | STEEL | PVC | ABS | IF OTHER TYPE, DESCRIBE | BLANK OR NONE | WIRE WRAP | SHUTTER SCREEN | MILLS KNIFE | | SLOTTED | IF OTHER TYPE, DESCRIBE |
| <i>0</i> | <i>20</i> | <i>12 1/4</i> | <i>0</i> | <i>20</i> | <i>8 5/8</i> | <i>X</i> | | | | <i>X</i> | | | | | | |
| <i>20</i> | <i>160</i> | <i>8"</i> | <i>10</i> | <i>120</i> | <i>6</i> | | <i>X</i> | | | | | | | | | |
| | | | <i>120</i> | <i>160</i> | <i>6</i> | | <i>X</i> | | | | | | <i>X</i> | | | <i>1/8</i> |

| Installed Annular Material | | | | | | | | | | | | |
|----------------------------|------------|---------------------------|----------|-----------------------------|------------------------|-----------|-------|---------------|---|------|--------|------|
| DEPTH FROM SURFACE | | ANNULAR MATERIAL TYPE (X) | | | | | | | FILTER PACK | | | |
| FROM (feet) | TO (feet) | NONE | CONCRETE | NEAT CEMENT OR CEMENT GROUT | CEMENT-BENTONITE GROUT | BENTONITE | | | IF OTHER TYPE OF ANNULAR MATERIAL, DESCRIBE | SAND | GRAVEL | SIZE |
| | | | | | | GROUT | CHIPS | PELLETS | | | | |
| <i>0</i> | <i>20</i> | | <i>X</i> | | | | | | | | | |
| <i>20</i> | <i>160</i> | | | | | | | <i>NATIVE</i> | | | | |

Well Driller Report and Well Log

WELL REGISTRATION NUMBER
55-211818

| SECTION 5. GEOLOGIC LOG OF WELL | | | |
|---------------------------------|--------------|---|--|
| DEPTH FROM SURFACE | | DESCRIPTION Describe material, grain size, color, etc. | Check (X) every interval where water was encountered |
| FROM (feet) | TO (feet) | | |
| 0 | 4 | Top So. 1 | |
| 4 | 25 | Broken kk | |
| 25 | 60 | Rock | |
| 65 | 85 | Broken Rock | X |
| 85 | 160 | Rock | |
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Arizona Department of Water Resources
 Information Management Unit
 PO Box 36020 • Phoenix, Arizona 85067-6020
 (602) 771-8527 • 602-771-8500

**Well Driller Report
 and
 Well Log**

(K)

THIS REPORT MUST BE FILED WITHIN **30 DAYS** OF COMPLETING THE WELL.

PLEASE PRINT CLEARLY USING BLACK OR BLUE INK

| |
|--|
| FILE NUMBER D(22-16) 34 BCA |
| WELL REGISTRATION NUMBER 55 - 227106 |
| PERMIT NUMBER (IF ISSUED) |

SECTION 1. DRILLING AUTHORIZATION

| | | |
|-----------------|---|----------------------------------|
| Mail To: | NAME PATAGONIA TRADING COMPANY, LLC | DWR LICENSE NUMBER 841 |
| | ADDRESS P.O. BOX 232 | TELEPHONE NUMBER 520-860-0030 |
| | CITY / STATE / ZIP SONOITA, AZ, 85637-0232 | FAX |

SECTION 1. REGISTRY INFORMATION

| | | | | | | | |
|---|--|--|---|---|------------------|---|--------------------|
| Well Owner | | Location of Well | | | | | |
| FULL NAME OF COMPANY, ORGANIZATION, OR INDIVIDUAL SOTO, JOSEFINA | | WELL LOCATION ADDRESS (IF ANY) | | | | | |
| MAILING ADDRESS 547 HARSHAW RD | | TOWNSHIP (N/S) | RANGE (E/W) | SECTION | 160 ACRE 1/4 | 40 ACRE 1/4 | 10 ACRE 1/4 |
| CITY / STATE / ZIP PATAGONIA, AZ, 85624 | | LATITUDE 31 | 38 | 458 ^N | LONGITUDE 110 | 411 | 55.92 ^W |
| CONTACT PERSON NAME AND TITLE | | METHOD OF LATITUDE/LONGITUDE (CHECK ONE) | | | | <input checked="" type="checkbox"/> *GPS: Hand-Held | |
| TELEPHONE NUMBER 520 358-5851 | | FAX | | LAND SURFACE ELEVATION AT WELL 4696 | | Feet Above Sea Level | |
| WELL NAME (e.g., MW-1, PZ-3, lot 25 Well, Smith Well, etc.) | | METHOD OF ELEVATION (CHECK ONE) | | | | <input checked="" type="checkbox"/> *GPS: Hand-Held | |
| | | | | *IF GPS WAS USED, GEOGRAPHIC COORDINATE DATUM (CHECK ONE) | | <input type="checkbox"/> *GPS: Survey-Grade | |
| | | | | <input type="checkbox"/> USGS Quad Map <input type="checkbox"/> Conventional Survey | | <input type="checkbox"/> *GPS: Survey-Grade | |
| | | | | <input type="checkbox"/> NAD-83 <input type="checkbox"/> Other (please specify) | | | |
| | | COUNTY | ASSESSOR'S PARCEL ID NUMBER (MOST RECENT) | | | | |
| | | | BOOK 106 | MAP 54 | PARCEL 003B | | |

RECEIVED
 JUL 14 2017
 ARIZONA DEPARTMENT
 OF WATER RESOURCES

PLEASE COMPLETE PAGE 4

SECTION 3. WELL CONSTRUCTION DETAILS

| | | |
|--|---|--|
| Drilling Method | Method of Well Development | Method of Sealing at Reduction Points |
| CHECK ONE <input checked="" type="checkbox"/> Air Rotary <input type="checkbox"/> Bored or Augered <input type="checkbox"/> Cable Tool <input type="checkbox"/> Dual Rotary <input type="checkbox"/> Mud Rotary <input type="checkbox"/> Reverse Circulation <input type="checkbox"/> Driven <input type="checkbox"/> Jetted <input type="checkbox"/> Air Percussion / Odex Tubing <input type="checkbox"/> Other (please specify) | CHECK ONE <input checked="" type="checkbox"/> Airlift <input type="checkbox"/> Bail <input type="checkbox"/> Surge Block <input type="checkbox"/> Surge Pump <input type="checkbox"/> Other (please specify) | CHECK ONE <input checked="" type="checkbox"/> None <input type="checkbox"/> Packed <input type="checkbox"/> Swedged <input type="checkbox"/> Welded <input type="checkbox"/> Other (please specify) |
| | Condition of Well | Construction Dates |
| | CHECK ONE <input checked="" type="checkbox"/> Capped <input type="checkbox"/> Pump Installed | DATE WELL CONSTRUCTION STARTED 5-15-17 |
| | | DATE WELL CONSTRUCTION COMPLETED 5-17-17 |

I state that this notice is filed in compliance with A.R.S. § 45-596 and is complete and correct to the best of my knowledge and belief.

| | |
|-----------------------------------|----------------|
| SIGNATURE OF QUALIFYING PARTY | DATE 7-1-17 |
|-----------------------------------|----------------|

Well Driller Report and Well Log

WELL REGISTRATION NUMBER
55 - 227106

SECTION 4. WELL CONSTRUCTION DESIGN (AS BUILT) (attach additional page if needed)

| Depth | |
|---|---|
| DEPTH OF BORING 140 Feet Below Land Surface | DEPTH OF COMPLETED WELL 140 Feet Below Land Surface |

Water Level Information

| | | | |
|---|--------------------------|------------------------|--|
| STATIC WATER LEVEL 60 Feet Below Land Surface | DATE MEASURED 5-19-17 | TIME MEASURED 10:36 | IF FLOWING WELL, METHOD OF FLOW REGULATION <input type="checkbox"/> Valve <input type="checkbox"/> Other: |
|---|--------------------------|------------------------|--|

| Borehole | | | Installed Casing | | | | | | | | | | | | | | |
|--------------------|-----------|----------------------------|--------------------|-----------|----------------|-------------------|-----|-----|-------------------------|----------------------|-----------|----------------|-------------|---------|--------------------|-------------------------|------|
| DEPTH FROM SURFACE | | BOREHOLE DIAMETER (inches) | DEPTH FROM SURFACE | | OUTER (inches) | MATERIAL TYPE (T) | | | | PERFORATION TYPE (T) | | | | | SLOT SIZE (inches) | | |
| FROM (feet) | TO (feet) | | FROM (feet) | TO (feet) | | STEEL | PVC | ABS | IF OTHER TYPE, DESCRIBE | BLANK OR NONE | WIRE WRAP | SHUTTER SCREEN | MILLS KNIFE | SLOTTED | | IF OTHER TYPE, DESCRIBE | |
| 0 | 20 | 12.75 | 0 | 20 | 4 5/4 | ✓ | | | | | | | | | | | |
| 20 | 100 | 8 | 20 | 100 | 6 5/4 | ✓ | | | | | | | | | | | |
| 100 | 140 | 4 | 100 | 140 | 6 5/4 | ✓ | | | | | | | | ✓ | | | 1/16 |
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| Installed Annular Material | | | | | | | | | | | | |
|----------------------------|-----------|---------------------------|----------|-----------------------------|------------------------|-----------|-------|---------|---|------|-------------|------|
| DEPTH FROM SURFACE | | ANNULAR MATERIAL TYPE (T) | | | | | | | | | FILTER PACK | |
| FROM (feet) | TO (feet) | NONE | CONCRETE | NEAT CEMENT OR CEMENT GROUT | CEMENT-BENTONITE GROUT | BENTONITE | | | IF OTHER TYPE OF ANNULAR MATERIAL, DESCRIBE | SAND | GRAVEL | SIZE |
| | | | | | | GROUT | CHIPS | PELLETS | | | | |
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| SECTION 5. GEOLOGIC LOG OF WELL | | | |
|---------------------------------|--------------|---|---|
| DEPTH FROM SURFACE | | Description Describe material, grain size, color, etc. | Check (T) every interval where water was encountered (if known) |
| FROM (feet) | TO (feet) | | |
| 0 | 100 | loose sand, gravel, boulders | |
| 100 | 140 | loose sand, gravel, boulders | ✓ |
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