

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 31-12447

Exam Date: 1/27/20

1. Current Owner:
MUD LAKE WATER USERS INC 1400 E 1500 N
PO BOX 68 TERRETON ID 83450

3. **SOURCE:**
GROUND WATER

Method of Determination: Permit application, ArcMap, aerial imagery, and USGS topography

B. OVERLAP REVIEW

1. Other water rights with the same place of use: YES Overlap

Water Right No.	Source	Purpose of Use	Basis
N/A	N/A	N/A	N/A

Comments: Several other water rights overlap within the same NW 1/4 NW 1/4 as the target property, however these rights are pertinent to neighboring properties and are used for irrigation. Please see the attached spreadsheet detailing the neighboring water rights.

2. Other water rights with the same point-of-diversion: NO Overlap

Water Right No.	Source	Purpose of Use	Basis
N/A	N/A	N/A	N/A

Comments: There are no other water rights that share POD.

C. DIVERSION AND DELIVERY SYSTEM

1. **LOCATION OF POINT(S) OF DIVERSION:**

GROUND WATER NE¼ NE¼, Sec. 23, Twp 06N, Rge 34E, B.M. JEFFERSON County

Method of Determination: Legal description in permit validated by PLS data and mapping.

PLACE OF USE: COMMERCIAL

Twp	Rng	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
06N	34E	24						X											

Method of Determination: Map of property submitted by land owner identifies POU clearly. PLSS data through ArcMap also verified.

3.

N/A Delivery System Diagram Attached (required). Indicate all major components and distances between components. Indicate weir size/pipe as applicable.

X Map Attached Showing Location(s) of point(s) of diversion and place(s) of use (required). Scale must be 1:24,000 or greater.

X Aerial Photo Attached (required for irrigation of 10+ acres).

N/A Photo of Diversion and System Attached

4.

Well or Diversion ID No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
N/A	N/A	N/A	N/A	N/A	N/A

D. FLOW MEASUREMENTS

In office field exam so flow measurements not taken.

E. FLOW CALCULATIONS

Measured Method:

Commercial Permit 0.04 cfs

B.U. Proof Fee: \$50 → 0.00 cfs to 0.20 cfs

License Recommendation 0.04 cfs

F. VOLUME CALCULATIONS

1. Volume Calculations for irrigation: N/A
2. Volume Calculations for Other Uses: Commercial use is limited to 2,500 gallons per day by conditions of the permit.

G. NARRATIVE/REMARKS/COMMENTS

Permit 31-12447 authorized the diversion of 0.04 cfs from groundwater for commercial use in an office in Section 24, Township 06 North, Range 34 East, NW 1/4, NW 1/4. Based on the information provided in the water right file, this qualifies for an in office field exam. The exam was completed on 01/27/20 by WRA Kate Huelse.

The proof of beneficial use was submitted on December 20, 2019 by Mud Lake Water Users, Inc. Current Jefferson tax lot data represent Mud Lake Water Users as the land owners pertinent to the place of use and point of diversion. The point of diversion, according to the well log, was drilled on 09/05/17 by Mud Lake Irrigation. The well log gives both the legal description and the GPS coordinates in Degrees-Minutes- Seconds. Both of these methods place the well in Section 24, Township 06 North, Range 34 East, NW 1/4, NW 1/4. The permit specifies that the use is for commercial use in an office building.

The diversion rate I have recommended for this license is 0.04 cfs, and as stated in the permit the user shall not exceed 2,500 gallons per day. Pump test of 40gpm recorded on well log suggests 0.04 cfs has been achieved.

Have conditions of permit approval been met? ☒ Yes ☐ No

H. RECOMMENDATIONS**1. Recommended Amounts**

<u>Beneficial Use</u>	<u>Period of Use</u>	<u>Rate of Diversion</u>
COMMERCIAL	01/01 to 12/31	0.04 CFS

Totals: 0.04 CFS

2. Recommended Amendments

☐ Change P.D. as reflected above ☐ Add P.D. as reflected above ☒ None

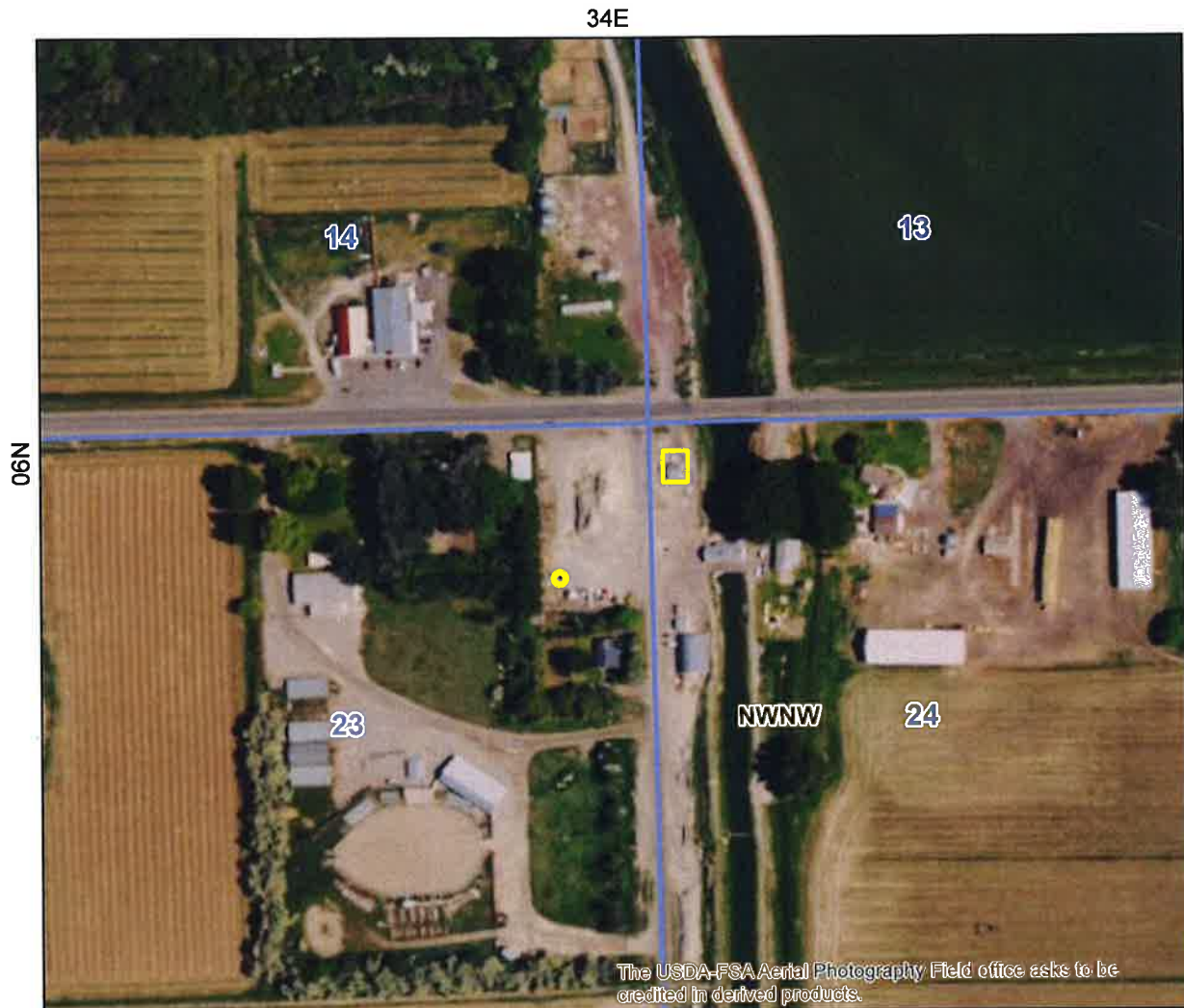
☐ Change P.U. as reflected above ☐ Add P.U. as reflected above ☒ None

I. AUTHENTICATION Kate Hulse - Water Resource Agent

Field Examiner's Name Kate Hulse Date 1/28/20

Reviewer _____ Date _____

State of Idaho
Department of Water Resources
Beneficial Use In Office Field Report
31-12447



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

0 0.035 0.07 0.14 Miles



IDAHO DEPARTMENT OF WATER RESOURCES WELL DRILLER'S REPORT

1. WELL TAG NO. D 00 73973

Drilling Permit No. _____

Water right or injection well # 31-10627

2. OWNER: Mud Lake Irrigation

Name Shawn Brown

Address P.O. Box 68

City Terneton State Id Zip 83450

3. WELL LOCATION:

Twp. 6 North ☒ or South ☐ Rge. 24 East ☒ or West ☐

Sec. 23 1/4 NE 1/4 NE 1/4

Gov't Lot _____ County Jefferson

Lat. 43° 50.436 (Deg. and Decimal minutes)

Long. 112° 24.991 (Deg. and Decimal minutes)

Address of Well Site 1495 N 1400 E

City Terneton

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

Lot _____ Blk _____ Sub. Name _____

4. USE:

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

☒ Other public water supply

5. TYPE OF WORK:

☒ New well ☐ Replacement well ☐ Modify existing well

☐ Abandonment ☐ Other _____

6. DRILL METHOD:

☒ Air Rotary ☐ Mud Rotary ☐ Cable ☐ Other _____

7. SEALING PROCEDURES:

Seal material	From (ft)	To (ft)	Quantity (lbs or ft ³)	Placement method/procedure
<u>bentonite</u>	<u>0</u>	<u>170</u>	<u>79 bags</u>	<u>overbore</u>

8. CASING/LINER:

Diameter (nominal)	From (ft)	To (ft)	Gauge/Schedule	Material	Casing	Liner	Threaded	Welded
<u>6</u>	<u>+2</u>	<u>300</u>	<u>250</u>	<u>steel</u>	☒	☐	☐	☒

12. STATIC WATER LEVEL and WELL TESTS:

Depth first water encountered (ft) 270 Static water level (ft) 270

Water temp. (°F) 50 Bottom hole temp. (°F) 50

Describe access port well cap

Well test: _____ Test method: _____

Drawdown (feet)	Discharge or yield (gpm)	Test duration (minutes)	Pump	Bailer	Air	Flowing artesian
	<u>40</u>		☐	☐	☒	☐
			☐	☐	☐	☐

Water quality test or comments: etc.

13. LITHOLOGIC LOG and/or repairs or abandonment:

Sore Dia. (in)	From (ft)	To (ft)	Remarks, lithology or description of repairs or abandonment, water temp.	Water	
				Y	N
<u>10</u>	<u>0</u>	<u>40</u>	<u>clay gravel</u>		☒
<u>10</u>	<u>40</u>	<u>50</u>	<u>sand gravel</u>		☒
<u>10</u>	<u>50</u>	<u>123</u>	<u>clay</u>		☒
<u>10</u>	<u>123</u>	<u>130</u>	<u>black lava</u>		☒
<u>10</u>	<u>130</u>	<u>260</u>	<u>black</u>		☒
<u>10</u>	<u>260</u>	<u>280</u>	<u>red broken lava</u>	☒	☒
<u>10</u>	<u>280</u>	<u>300</u>	<u>broken lava & clay</u>		☒
<u>6</u>	<u>300</u>	<u>340</u>	<u>solid lava</u>		☒
<u>6</u>	<u>340</u>	<u>360</u>	<u>broken lava</u>	☒	

RECEIVED

SEP 08 2017

Department of Water Resources
Eastern Region

Completed Depth (Measurable): 360

Date Started: 8-22-17 Date Completed: 9-1-17

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 High Plains Co. No. 299

*Principal Driller Marcus Zambler Date 9-7-17

*Driller _____ Date _____

*Operator II Tom Frank Date 9-5-17

Operator I _____ Date _____

* Signature of Principal Driller and rig operator are required.

11. FLOWING ARTESIAN:

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

Describe control device X