

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 15-07146

Exam Date: 6/28/2017

1. Current Owner:

TARRELL O JONES 262 N 100 W MALAD CITY ID 83252 2087662235

2. Accompanied by: Lynn Maxfield

Phone No: 385 439 2634

Address: 474 Ranch Lane

Relationship to Permit Holder: Property owner of one of the subdivided parcels covered by this right.

3. SOURCE:

GROUND WATER

TRIBUTARY:**B. OVERLAP REVIEW****1. Other water rights with the same place of use: 15-2039B**

2. Other water rights with the same point-of-diversion: 15-2039B, which lists a point of diversion in the NWNW of Section 28, the same originally permitted description for this license's diversion point. This discussion continues in the Narrative/Remarks/Comments section below.

C. DIVERSION AND DELIVERY SYSTEM**1. LOCATION OF POINT(S) OF DIVERSION:**

GROUND WATER SW¼NW¼ Sec. 28, Twp 14S, Rge 36E, B.M. ONEIDA County

Method of Determination: GPS and ArcMap

2.

PLACE OF USE: IRRIGATION

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
14S	36E	28						2.5	25.0			10.0							37.5
14S	36E	29				1.5									4.5				6.0

Total Acres: 43.5

Method of Determination: Meeting with appropriator, aerial photography, ArcMap

3.

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).

 X Photo of Diversion and System Attached

4. WELL INFORMATION

40 hp submersed well.

D. FLOW MEASUREMENTS

A theoretical calculation was performed.

The well's discharge pipe contained a suitable measuring point. However, the well was not tied to a delivery system. The land irrigated under the permit between 1994 and 1997 was subdivided at the time of the 2017 field examination. The homes in the subdivision each have their own well.

E. FLOW

 X Additional Computation Sheets Attached

CALCULATIONS

The following parameters were used for the theoretical examination:

40 hp pump, as installed.

80 ft pumping level.

The well driller reported a static water level of 51 ft and made no mention of drawdown. However, the proof of beneficial use reported a dynamic pumping level of 80 ft.

A PSI of 60, as reported on the proof of beneficial use.

The theoretical calculation yielded a discharge of 1.13 cfs.

It will be limited to the permitted amount of 0.49 cfs.

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 43.5 \text{ acres} \times 3.5 \text{ AFA} = 152.3 \text{ AFA}$$

$$V_{D.R} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.49 \text{ cfs} \times 214 \text{ days} \times 1.9835 = 208.0 \text{ acre feet}$$

$$V = \text{Smaller of } V_{I.R} \text{ and } V_{D.R} = 152.3 \text{ AFA}$$

2. Volume Calculations for Other Uses: N/A

G. NARRATIVE/REMARKS/COMMENTS

This permit was likely filed to supplement license 15-2039B, which supplies 0.4 cfs to 42 acres of the 43.5 acres covered by this license.

Transfer 4454, filed on January 4, 1994, proposed to change the point of diversion for 42 acre portion of water right 15-2039. The proposed well was to be located in the NWNW of Section 28. Permit 15-7146 was issued describing a well to be drilled in the same location.

$0.49 \text{ cfs (this permit)} + 0.4 \text{ cfs (15-2039B)} = 0.89 \text{ cfs} / 44.5 \text{ acres (originally proposed)} = 0.02 \text{ cfs/acre.}$

Ultimately, the well that served the 43.5 acres developed under this right was drilled in the SWNW of Section 28.

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

H. RECOMMENDATIONS**1. Recommended Amounts**

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
IRRIGATION	4/1 to 10/31	0.49 CFS	152.3 AF
<u>Totals:</u>		0.490 CFS	152.30 AF

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

Field Examiner's Name Cooper Fritz Date 7/7/2017

Reviewer _____ Date _____



THEORETICAL HORSEPOWER EQUATION WORKSHEET (cjh 1/92)

Water Right No.: 15-7146
Examiner: Cooper
Date of Field Exam: 6/28/2017

Option 1

P/D No.:

PUMP HORSEPOWER 40
BOOSTER HORSEPOWER 0

PUMPING LEVEL 80

DISCHARGE PRESSURE 60

FRICTION 0

RATE OF FLOW (cfs) 1.13
(gpm) 505.9

The above calculates the formula =

$$Q = \frac{8.8 * (\text{Efficiency}) * \text{hp}}{\text{depth to water} + 2.31 * (\text{psi}) + \text{friction}}$$

Assumptions: %70 efficiency.

Examiners Notes:

Lift was taken from proof of beneficial use. HP of pump as installed. PSI as reported on proof of beneficial use.

7/7/2017

<u>Owner Type</u>	<u>Name and Address</u>
Current Owner	TARRELL O JONES 262 N 100 W MALAD CITY, ID 83252 (208) 766-2235

Status: Active

Tributary

<u>Beneficial Use</u>	<u>From</u>	<u>To</u>	<u>Diversion Rate</u>	<u>Volume</u>
IRRIGATION	4/15	10/15	0.400 CFS	145.2 AF
	Total Diversion		0.400 CFS	145.2 AF

GROUND WATER NWNW Sec. 28, Twp 14S, Rge 36E, ONEIDA County

IRRIGATION within ONEIDA County

			NE				NW				SW				SE				
Twp	Rng	Sec	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	Totals
14S	36E	28						3.0	24.0			10.0							37.0
14S	36E	29				1.0									4.0				5.0

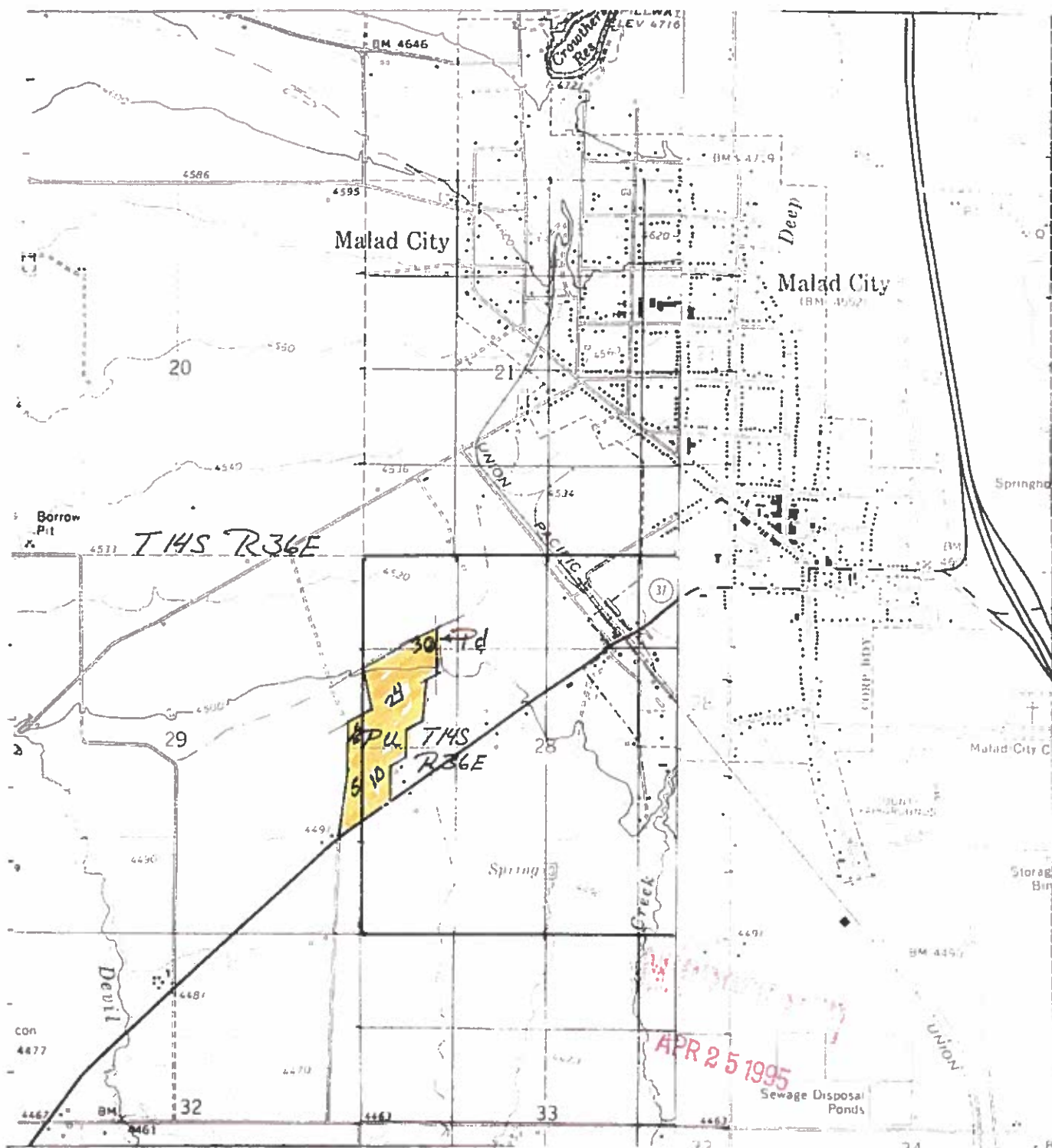
POU Total Acres: 42.0

1. R30 This right when combined with all other rights shall provide no more than .02 cfs per acre nor more than 3.5 afa per acre for irrigation of the lands above.
2. T08 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. 01M After specific notification by the department, the right holder shall install a suitable measuring device 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.
4. 046 Right holder shall comply with the drilling permit requirements of Section 42-235, Idaho Code.
5. T07 The right holder shall accomplish the change authorized by this transfer within one (1) year of the date of this approval.
6. T09 Approval of this transfer does not preclude the opportunity for review of the validity of the water right(s) in the ongoing Snake River Basin Adjudication.

N/A

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
APPLICATION FOR TRANSFER OF WATER RIGHT
PART 3

- A. Draw a map or attach a USGS map indicating the new point(s) of diversion and/or the new place of use for rights described in part 1. Clearly depict the land by section, township and range number.



STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
TRANSFER OF WATER RIGHT

TRANSFER NO. 4454
WATER RIGHT NO. 15-02039B

This is to certify that: **TARREL O JONES**
262 N 100 W
MALAD ID 83252

has requested a change to the above captioned water right(s). This change in water right(s) is authorized pursuant to the provisions of Section 42-222, Idaho Code, provided the conditions listed below are met.

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
IRRIGATION	04/15 to 10/15	0.40 CFS	145.2 AF

SOURCE

GROUNDWATER

Priority: 04/15/1954

LOCATION OF POINT(S) OF DIVERSION:

NWNW , Sec. 28, Township 14S, Range 36E
ONEIDA County

PLACE OF USE: IRRIGATION

<u>TWN</u>	<u>RGE</u>	<u>SEC</u>		<u>ACRES</u>		<u>ACRES</u>		<u>ACRES</u>	<u>TOTAL</u>
14S	36E	28	NWNW	3	SWNW	24	NWSW	10	37
		29	SENE	1	NESE	4			5
Total number of acres irrigated:									42

CONDITIONS/REMARKS:

1. Right holder shall comply with the drilling permit requirements of Section 42-235, Idaho Code.
2. After specific notification by the department, the right holder shall install a suitable measuring device 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.
3. This right when combined with all other rights shall provide no more than .02 cfs per acre nor more than 3.5 afa per acre for the lands above.

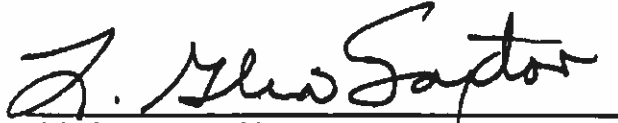
OK
JH

TRANSFER NO. 4454
WATER RIGHT NO. 15-02039B

CONDITIONS/REMARKS:

4. The change authorized by this transfer shall be accomplished within one (1) year of the date of this approval.
5. Failure to comply with the conditions of this transfer is cause for the director to issue an order to show cause why the approval of the transfer should not be rescinded.
6. Approval of this transfer does not preclude the opportunity for review of the validity of the water right(s) in the ongoing Snake River Basin Adjudication.

Dated this 12th day of April, 1995.


Chief, Water Alloc. Bureau

APR 25 1995