

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 43-13664

Exam Date: 7/21/2014

1. Current Owner: TED K TRACY
PO BOX 197
ALMO ID 83312
(208)824-5503

JASON TRACY
PO BOX 197
ALMO ID 83312
(208)824-5503

2. Accompanied by: Ted Tracy, phone conversation

Phone No: cell 208-430-5503

Address: same as above

Relationship to Permit Holder: permit holder

3. SOURCE

UNNAMED SPRING

TRIBUTARY

SINKS

B. OVERLAP REVIEW

1. Other water rights with the same place of use: none
2. Other water rights with the same point of diversion: none

C. DIVERSION AND DELIVERY SYSTEM1. LOCATION OF POINT(S) OF DIVERSION:

UNNAMED SPRING	NE1/4NW1/4NW1/4	Sec. 26, Twp 15S, Rge 24E, B.M.
CASSIA County		
UNNAMED SPRING	NW1/4NE1/4NW1/4	Sec. 26, Twp 15S, Rge 24E, B.M.
CASSIA County		

Method of Determination: ArcMap aerial imagery and site visit

2. PLACE OF USE: STOCKWATER

Twp	Rge	Sec	NE				NW				SW				SE				
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	Totals
15S	24E	26		X															

Method of Determination: ArcMap aerial imagery, site visit

G. NARRATIVE/REMARKS/COMMENTS

The field exam for permit 43-13664 was conducted on July 21, 2014. Permit holder Ted Tracy was contacted by telephone on July 24, 2014 for further information. The field exam revealed that the PODs for the permit were correctly described as to location, but the Unnamed Stream POD is actually a spring, with a perforated pipe to collect the water. It then flows to a 30 inch diameter vertical CMP distribution unit, where overflow is directed into the nearby stream and the stockwater flows southeast in a 2 inch plastic pipe for approximately 730 feet. At that point, water from the second spring, also collected in a buried perforated pipe, joins the main pipeline, continuing in a southeasterly direction for approximately 1570 feet to a round trough, 7 feet in diameter and 15 inches deep. A second trough with the same dimensions is located across a fence 200 feet beyond the first trough, to serve cattle in a separate pasture. These troughs are large tractor tires with a layer of concrete in the bottom, with a capacity of about 360 gallons. Quarter turn valves are present at each spring, and above each trough, so that water can be turned off in different sections of the system as needed. At the time of the field exam, only one trough contained water, and only the lower spring was actually flowing. According to Mr. Tracy, the upper spring usually only flows in the springtime and during, or after, irrigation of the surrounding hay field.

In the licensing process, the Unnamed Stream POD will be changed to Unnamed Spring to more accurately reflect the actual source at that location. In addition, both PODs, because they are springs, will be described down to the 10 acre tract, per Beneficial Use Examination Rules.

It appears that permit conditions have been met. The valves or valve boxes could be locked, thus complying with the condition requiring a lockable device.

The diversion rate of 0.06 cfs does not require a measurement, so it is recommended that the permitted rate be licensed. Volume is calculated as 600 head of cattle x 12 gallons per day x 365 days = 8.1 AF.

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>
STOCKWATER	01/01 to 12/31	0.060 CFS	8.10 AF
<u>Totals:</u>		0.060 CFS	8.10 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 ☐ Other

I. AUTHENTICATION

Field Examiner's Name

Date 7/21/2014

Reviewer

Date

8/7/14

3. ☒ Delivery System Diagram Attached (required). Indicate all major components and distances between components. Indicate weir size/pipe as applicable.
- ☒ Map Attached Showing Location(s) of point(s) of diversion and place(s) of use (required). Scale must be 1:24,000 or greater.
- ☒ Aerial Photo Attached (required for irrigation of 10+ acres).
- ☒ Photo of Diversion and System Attached

4.

<u>Well or Diversion</u> <u>ID No.*</u>	<u>Motor Make</u>	<u>Hp</u>	<u>Motor Serial No.</u>	<u>Pump Make</u>	<u>Pump Serial No. or Discharge</u> <u>Size</u>
--	-------------------	-----------	-------------------------	------------------	--

NA

*Code to correspond with No. on map and aerial photo

D. FLOW MEASUREMENTS

1.

<u>Measurement</u> <u>Equipment</u>	<u>Type</u>	<u>Make</u>	<u>Model No.</u>	<u>Serial No.</u>	<u>Size</u>	<u>Calib. Date</u>
--	-------------	-------------	------------------	-------------------	-------------	--------------------

No measurement made per Beneficial Use Examination Rules- diversion rate is less than 0.24 cfs.

2. Measurements: NA

E. FLOW CALCULATIONS

_____Additional Computation Sheets Attached

Measured Method: NA

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation: NA

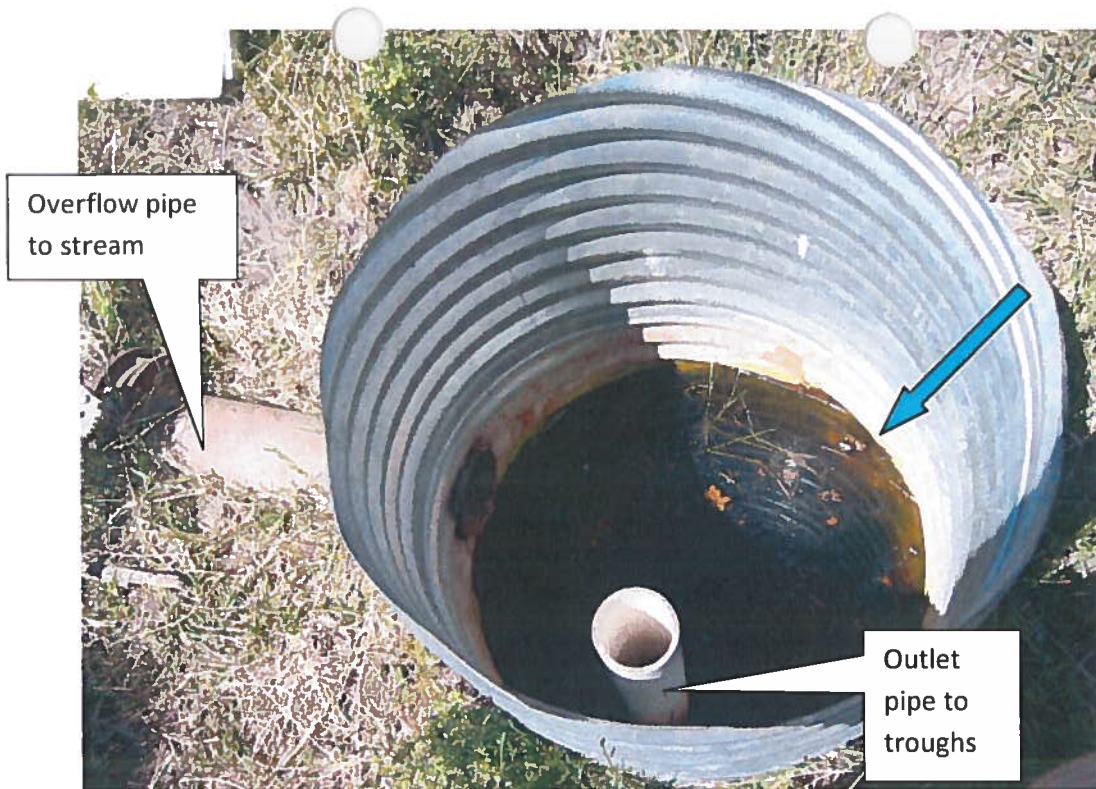
$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) =$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 =$$

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

2. Volume Calculations for Other Uses:

$$V = 600 \text{ head of cattle} \times 12 \text{ gallons per day} \times 365 \text{ days} = 628000 \text{ gallons} / 325850 = \mathbf{8.1 \text{ AF}}$$



Overflow pipe
to stream

Outlet
pipe to
troughs

Upper POD- perforated collection pipe enters CMP distribution unit at blue arrow.

Lower POD- perforated collection pipe is buried in marshy area in center of photo.





PVC control valve box. Each spring and each trough has a control valve.

Control valve inside box.





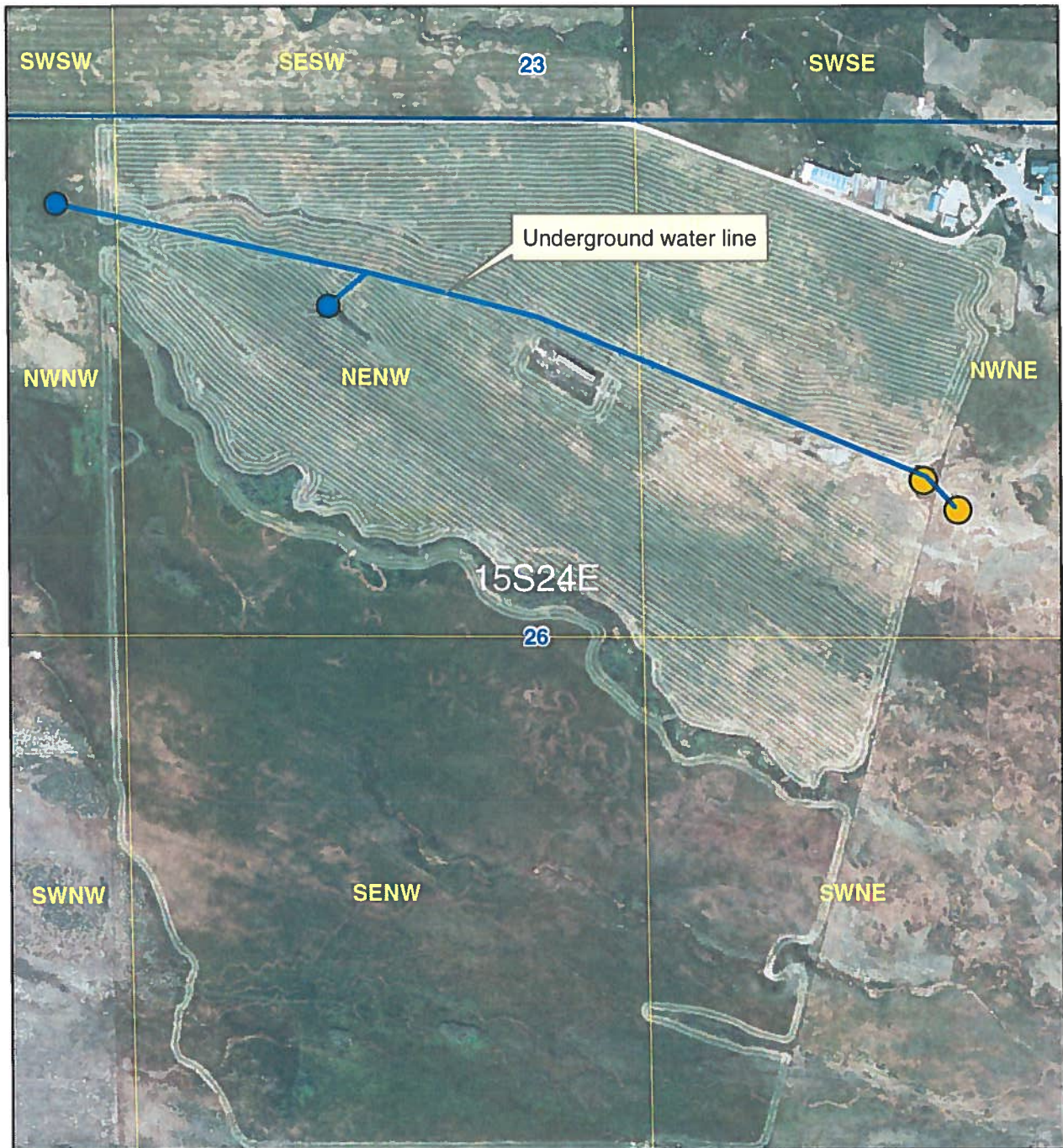
Trough containing water on day of exam.

This trough was dry on day of exam. Blue riser in center of trough houses float valve.



Idaho Department of Water Resources

System Diagram



Legend

- Township/Range
- Sections
- QQ
- (POU) Water Trough
- POD (Spring)

Tracy 43-13664



0 0.045 0.09 0.18 Miles