

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 63-33750
Exam Date: 07/29/2019

1. Current Owner:
CONSTANCE SCOTT 4101 ALMA LN NAMPA ID 83686 OR
HAROLD D SCOTT 4101 ALMA LN NAMPA ID 83686
2. Accompanied by: Sid Nato
Phone No: 208-880-1023
Address:
Relationship to permit Holder: Farmer leasing ground

3. **SOURCE:**
GROUND WATER

Method of Determination: Site visit

B. OVERLAP REVIEW

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

Water Right No.	Source	Purpose of Use	Basis
Surface water shares			

Comments: Multiple irrigation district water rights

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

Comments: _____

C. DIVERSION AND DELIVERY SYSTEM

1. **LOCATION OF POINT(S) OF DIVERSION:**
GROUND WATER SW¼ SE¼, Sec. 12, Twp 02N, Rge 02W, B.M. CANYON County

Method of Determination:

PLACE OF USE: IRRIGATION

Twp	Rng	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
02N	02W	12														9.1	32.0		41.1

Total Acres: 41.1

Method of Determination: Aerial imagery, digital PLS map

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.

Well or Diversion ID No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
D0066180	Selectric	10	PX 23/010-TE-STD	Submersible	

D. FLOW MEASUREMENTS

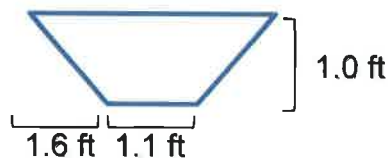
1.

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date
Float test						

2. Measurements:

Time to travel 10 ft

12.9 sec
 14.4 sec
 15.4 sec
 14.7 sec
 16.9 sec
 19.3 sec

Average: 15.6 sec**10 ft / 15.6 sec = 0.64 fps**

Cross-section area = 2.7 sq. ft

E. FLOW CALCULATIONS

Additional Computation Sheets Attached

Measured Method:

Measured: 2.7 sq. ft x 0.64 fps = 1.73 cfs

Theoretical = $8.8 \times 0.7 \times 10 \text{ hp} / 40 \text{ ft} = 1.54 \text{ cfs}$

BU Standard = 41.1 acres x 0.02 cfs/acre = 0.82 cfs

Permit = 0.92 cfs

Exam fee = 1.00 cfs max

Recommend 0.82 cfs**F. VOLUME CALCULATIONS**

1. Volume Calculations for irrigation:

 $V_{IR} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 41.1 \text{ acres} \times 4.5 \text{ afa/acre} = 185.0 \text{ afa}$ $V_{DR} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 422.9 \text{ afa}$ **V = Smaller of V_{IR} and V_{DR} = 185.0 afa**

2. Volume Calculations for Other Uses:

No other uses

G. NARRATIVE/REMARKS/COMMENTS

This permit authorizes the diversion of 0.92 cfs from groundwater to be used to supplement surface water shares to irrigate 46 acres of land. Proof of beneficial use was submitted on April 19, 2018. I completed this field exam on July 29, 2018.

The point of diversion is a ten-inch well which was drilled to a depth of 105 ft. A 10-hp electric motor drives a submersible pump to divert water from the well. The water travels through an 8-inch PVC pipe from the well and discharges into the bottom of a concrete ditch. Water is taken from the ditch using siphon tubes. The water is also diverted to an 8-inch gated pipe from the ditch to water the acreage adjacent to the well.

The only measurement I was able to take was a float test in the ditch. The float test showed an average rate of 1.73 cfs. The float test is a rough estimate in this case and is likely not very accurate. However, it suggests that the owner diverts more water than they were permitted. The theoretical calculation from the horsepower equation supports that conclusion. Therefore, I feel comfortable recommending the inch-to-the-acre standard (0.82 cfs)

Groundwater is used supplementally and only in times when water from the New York Canal is not available. There are no overlapping uses of the well.

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>	<u>Annual Volume</u>
IRRIGATION	03/01 to 11/15	0.82 CFS	185.0 AF
<u>Totals:</u>		0.82 CFS	185.0 AF

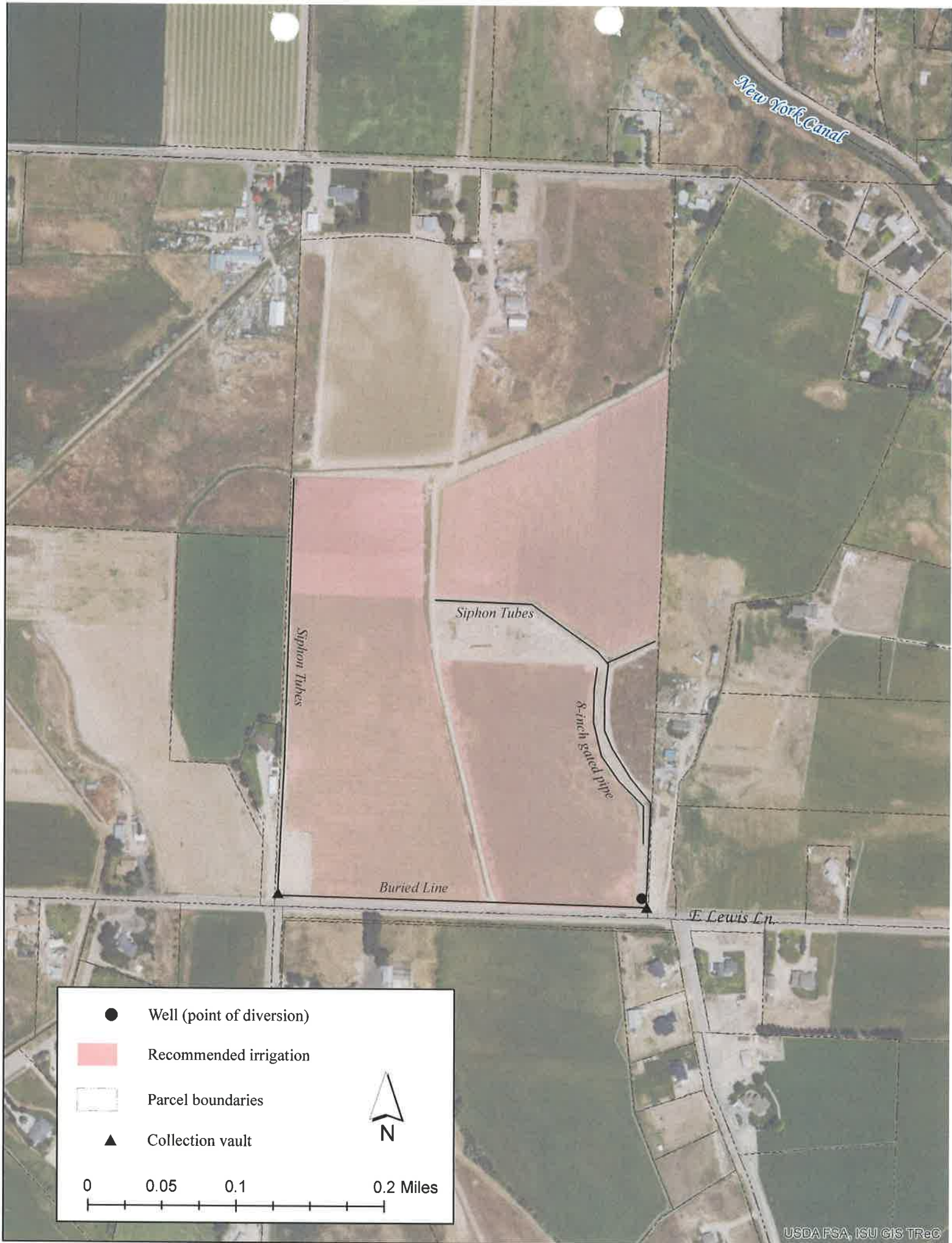
2. Recommended Amendments

☐ 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 Cody Parker - Water Resource Agent, Senior

Field Examiner's Name Cody Parker Date _____

Reviewer Patricia Wiley Date 8-16-2019



State of Idaho
Department of Water Resources
Beneficial Use Field Report
63-33750

IRRIGATION

02W

02N



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

0 0.05 0.1 0.2 Miles





Metal Tag No. D0066180



A view of the well facing south
towards Lewis Lane



The acreage irrigated from the well. Well water is used to supplement surface water shares.



A view from the well showing the open ditch and gated pipe systems.

Picture Attachment

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Right No. 63-33750

Selectric^{inc.}	
ELECTRIC CONTROLS	
BOX 1170 • UMATILLA, OREGON 97882	
TS 250	AMPS 57-23/ 5723
SE 3/4	HEATERS TRP-32
RTZ 31	CODE 11014/TC 6612
H.P. 10	P.O. NO.
AT. # 1123/11075-STD	
RING DIAG. 318-104-001	
SUITABLE FOR USE AS SERVICE EQUIPMENT	

Specifications for the 10-hp motor
used to power the submersible
pump.

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02N02W12

BasinSeq: Owner Source Use

	NENE	NWNE	SWNE	SENE	NENW	NWNW	SWNW	SENW	NESW	NWSW	SWSW	SESW	NESE	NWSE	SWSE	SESE	TotalAcres
63-11175 MC ALIST GROUND IRRIGATION										24.7							24.7
63-136 BARKER BOISE RI' IRRIGATION	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
63-137B BARKER BOISE RI' IRRIGATION	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
63-198AJ CARLOCK BOISE RI' IRRIGATION	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
63-198AJ CARLOCK MOSES C IRRIGATION	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
63-199B CARLOCK BOISE RI' IRRIGATION	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
63-199B CARLOCK MOSES C IRRIGATION	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
63-200A BARKER BOISE RI' IRRIGATION	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
63-200B CARLOCK BOISE RI' IRRIGATION	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
63-200B CARLOCK MOSES C IRRIGATION	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
63-20931 EASTER, UNNAME IRRIGATION				2													2
63-2106 UNITED S FIVEMILE IRRIGATION	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
63-2109 UNITED S MASON C IRRIGATION	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
63-233K AMERICA BOISE RI' IRRIGATION	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
63-2388A UNITED S BOISE RI' IRRIGATION	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
63-2392B DRAINAG WASTE W IRRIGATION	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
63-2392F BOISE PR WASTE W IRRIGATION	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
63-251A UNITED S BOISE RI' IRRIGATION	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
63-2968 FARWEST GROUND IRRIGATION	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
63-30181 CARLOCK BOISE RI' IRRIGATION	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
63-30181 CARLOCK MOSES C IRRIGATION	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
63-301A UNITED S BOISE RI' IRRIGATION	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
63-302A UNITED S BOISE RI' IRRIGATION	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
63-32315 KRAJNIK, GROUND IRRIGATION					4.9	2.3											7.2
63-32695A NAMPA & GROUND IRRIGATION	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
63-32695B NAMPA & GROUND IRRIGATION	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
63-32986 KRAJNIK, GROUND IRRIGATION					4.6	13.7											18.3
63-32987 KRAJNIK, GROUND IRRIGATION					0.5												0.5
63-33167 ELLIS, W/ GROUND IRRIGATION											21.5	33					54.5
63-33168 ELLIS, W/ GROUND IRRIGATION											13.5						13.5
63-33251 BOISE PR INDIAN C IRRIGATION	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
63-33253 BOISE PR TENMILE IRRIGATION	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
63-33680 PFLIEGER GROUND IRRIGATION																7.8	7.8
63-33739 NAMPA & SPRINGS IRRIGATION	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
63-33750 SCOTT, C GROUND IRRIGATION														9.1	32		41.1
63-373A UNITED S BOISE RI' IRRIGATION	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
63-8480 MURRAY GROUND IRRIGATION							11.5	18.7									30.2

Irrigation district/company water rights

STATE OF IDAHO
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02N02W12

Basin Sequ Owner Source

63-11175 MC ALIST GROUND WATER
 63-18501 HENRICK GROUND WATER
 63-19884 ELLIS, BE GROUND WATER
 63-19885 ELLIS, BE GROUND WATER
 63-19886 ELLIS, BE GROUND WATER
 63-19994 SCOTT, C GROUND WATER
 63-20847 MC ALIST GROUND WATER
 63-20930 EASTER, GROUND WATER
 63-20931 EASTER, UNNAMED DRAIN
 63-20981 HODGE, F GROUND WATER
 63-20997 KRAJNIK, GROUND WATER
 63-21060 FISHER, C GROUND WATER
 63-21233 TAGUE, E GROUND WATER
 63-21867 HENRICK GROUND WATER
 63-23001 DRAHN, F GROUND WATER
 63-27508 LEWIS, D GROUND WATER
 63-28198 MARKUS GROUND WATER
 63-28234 OKI, STE GROUND WATER
 63-28732 JENSEN, I GROUND WATER
 63-28908 RAMSEY, GROUND WATER
 63-30196 SOUTHSII GROUND WATER
 63-32315 KRAJNIK, GROUND WATER
 63-32986 KRAJNIK, GROUND WATER
 63-32987 KRAJNIK, GROUND WATER
 63-33167 ELLIS, W/ GROUND WATER
 63-33168 ELLIS, W/ GROUND WATER
 63-33680 PFLIEGEF GROUND WATER
63-33750 SCOTT, C GROUND WATER
 63-8480 MURRAY GROUND WATER

NENE	NWNE	SWNE	SENE	NENW	NWNW	SWNW	SENW	NESW	NWSW	SWSW	SESW	NESE	NWSE	SWSE	SESE
									X						
											X				
			X												
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* Signature of Principal Driller and rig operator are required.