

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A Beneficial Use Field Report is prepared by a water right examiner as the result of an examination to clearly confirm and establish the extent of the beneficial use of water established in connection with a permit during the development period authorized by the permit and any extensions of time previously approved.

A. GENERAL INFORMATIONPermit No. 29-137321. Owner THUNDER CANYON ESTATES OWNERS ASSNPhone No. 208-237-2946Current address PO BOX 563 LAVA HOT SPRINGS, ID. 832462. Examiner's name CASS JONESEXAM DATE 11/21/163. Accompanied by JENNY CONTRERASEmail JENANDSULLI@YAHOO.COM

Address _____

Relationship to permit holder PROPERTY OWNER/BOARD MEMBERPhone No. 720-284-29934. Source GROUND WATER

tributary to _____

B. OVERLAP REVIEW1. Other water rights with the same place of use 29-8080,29-37,29-170, 29-171, 29-12064,29-13726, 29-11773

2. Other water rights with the same source and point of diversion _____

C. DIVERSION AND DELIVERY SYSTEM

1. Point(s) of Diversion:

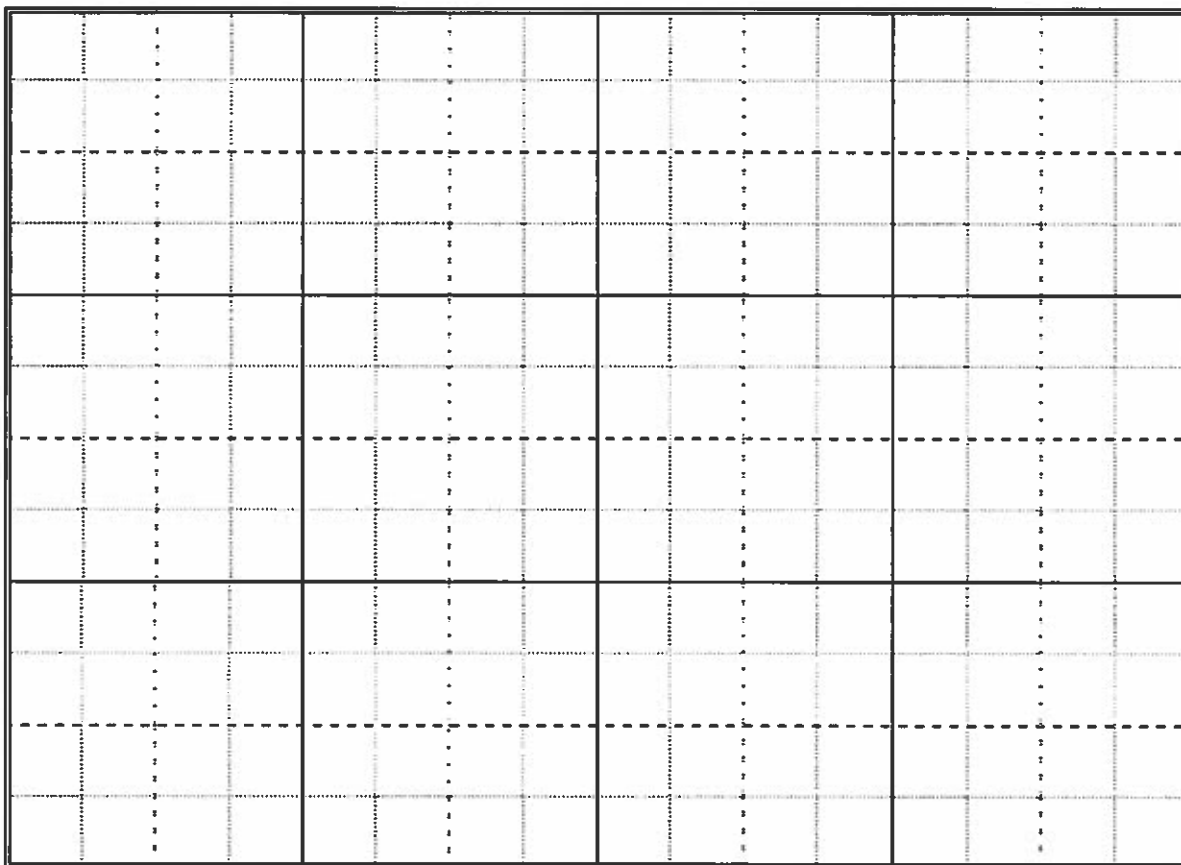
Ident. No.	Gov't Lot	¼	¼	¼	Sec	Twp	Rge	County	Method of Determination/Remarks
			SE	NE	32	09S	38E	BANNOCK	GPS

2. Place(s) of Use:

Method of determination GPS

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
09S	38E	28																	
		29																D	
		32	D			D													
		33					D	D											

3. **Delivery System Diagram:** Indicate all major components and distances between components. Indicate weir size/ditch size/pipe diameter (inside), as applicable. Use the space provided or ☒ see attached.



Scale: 1" = _____

- ☒ Copy of USGS Quadrangle attached showing location(s) of point(s) of diversion and place(s) of use (required)
☒ Aerial photo attached (required for irrigation of 10+ acres)
☒ Photo of diversion and system attached

4.

Well or Diversion Identification No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
D0044085		2			

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

D. FLOW MEASUREMENTS

1.

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date
FUJI ULTRASONIC FLOW METER	U/S	FUJI				

2. Measurements: _____

OUTSIDE DIAMETER OF PIPE = 3.5"

WALL THICKNESS OF PIPE = 0.20"

WELL 2 PRODUCED = 20.9 GPM (0.05CFS)

E. NARRATIVE/REMARKS/COMMENTS

WATER RIGHT IS PROPOSED TO HAVE ENOUGH WATER TO SUPPLY 87 HOMES. AS OF 11/22/16 THERE HAVE BEEN 25 HOUSES HOOKED UP TO THE SYSTEM. THIS NUMBER IS CURRENTLY BEING LIMITED TO 25 HOMES BY IDEQ. THE MAIN WATER LINE HAS BEEN ROUTED THROUGHOUT THE SUBDIVISION TO EACH LOT. CURRENTLY THE SUBDIVISION HAS TWO WELLS. WELL ONE AND WELL TWO. WATER RIGHT 29-8080 IS DIVERTED FROM WELL ONE. WATER RIGHT 29-13732 IS DIVERTED FROM WELL TWO. BOTH WELLS ARE INTERCONNECTED THROUGH A COMMON MAINLINE, AND PUMP WATER INTO A 100,000 GAL STORAGE TANK. A FLOW OF 20.9 GPM (0.05CFS) WAS MEASURED FROM WELL TWO. WATER RIGHT 29-8080 AUTHORIZES THE DIVERSION OF 0.20 CFS FROM WELL ONE. WELL ONE WAS MEASURED, BUT DID NOT PRODUCE MORE THAN 0.20CFS. SUBDIVISION PLANS TO ADD A THIRD WELL TO THEIR SYSTEM. INSTEAD OF AMENDING 29-13732 TO INCLUDE WELL ONE, THIS RIGHT WILL BE LICENSED TO AUTHORIZE THE DIVERSION OF WATER FROM WELL TWO. ONCE THIS LICENSE IS ISSUED THE SUBDIVISION PLANS ON FILING A TRANSFER TO ADD AN ADDITIONAL WELL TO THEIR WATER RIGHTS ALONG WITH WELL ONE AND WELL TWO TO THEIR WATER RIGHTS. WELL 1 HAS A 3 HP PUMP AND IS LOCATED INSIDE THE WELL HOUSE. WELL 2 HAS A 2 HP PUMP AND IS ~300 FEET NORTH OF THE WELL HOUSE, UPHILL FROM THE ROAD.

A NEW FLOWMETER HAD BEEN INSTALLED BUT HAS NOT BEEN HOOKED UP YET.

MCROMETER ULTRAMAG FLOWMETER

SER: 20140548

MODEL: WM06-03

Has the permit holder met all conditions of permit approval, including any mitigation requirements and/or measuring device installation requirements? ☒ Yes ☐ No If no, what must be done to meet the permit requirements?

F. FLOW CALCULATIONS☐ Additional computation sheets attached

Measured Method:

USED A FUJI ULTRASONIC FLOWMETER

WELL 2 PRODUCED = 20.9 GPM (0.05CFS)

G. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{IR} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = \underline{\text{NA}}$$

$$V_{DR} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation Season}) \times 1.9835 = \underline{\text{NA}}$$

$$V = \text{Smaller of } V_{IR} \text{ and } V_{DR} = \underline{\text{NA}}$$

2. Volume Calculations for Other Uses:

DOMESTIC FOR 87 HOMES

$$(87 \text{ HOMES}) \times (1.2\text{AF}) = 104.4\text{AF}$$

$$(0.05\text{CFS}) \times (1.9835\text{AF}) \times (365\text{DAYS}) = 36.2\text{AF}$$

RIGHTS 29-13732 AND 29-8080 WHEN COMBINED ARE LIMITED TO 107.2AF

H. RECOMMENDATIONS

1. Recommended Amounts

Beneficial Use	Period of Use		Rate of Diversion Q (cfs)	Annual Volume V (afa)
	From	To		
DOMESTIC	01/01	12/31	0.05 CFS	36.2 AFA
Totals:			0.05 CFS	36.2 AFA

2. Recommended Amendments

☐ Change P.D. as reflected on page 1☐ Add P.D. as reflected on page 1☒ None☐ Change P.U. as reflected on page 1☐ Add P.U. as reflected on page 1☐ Other**I. AUTHENTICATION**

Field Examiner's Signature

Date

12/5/16

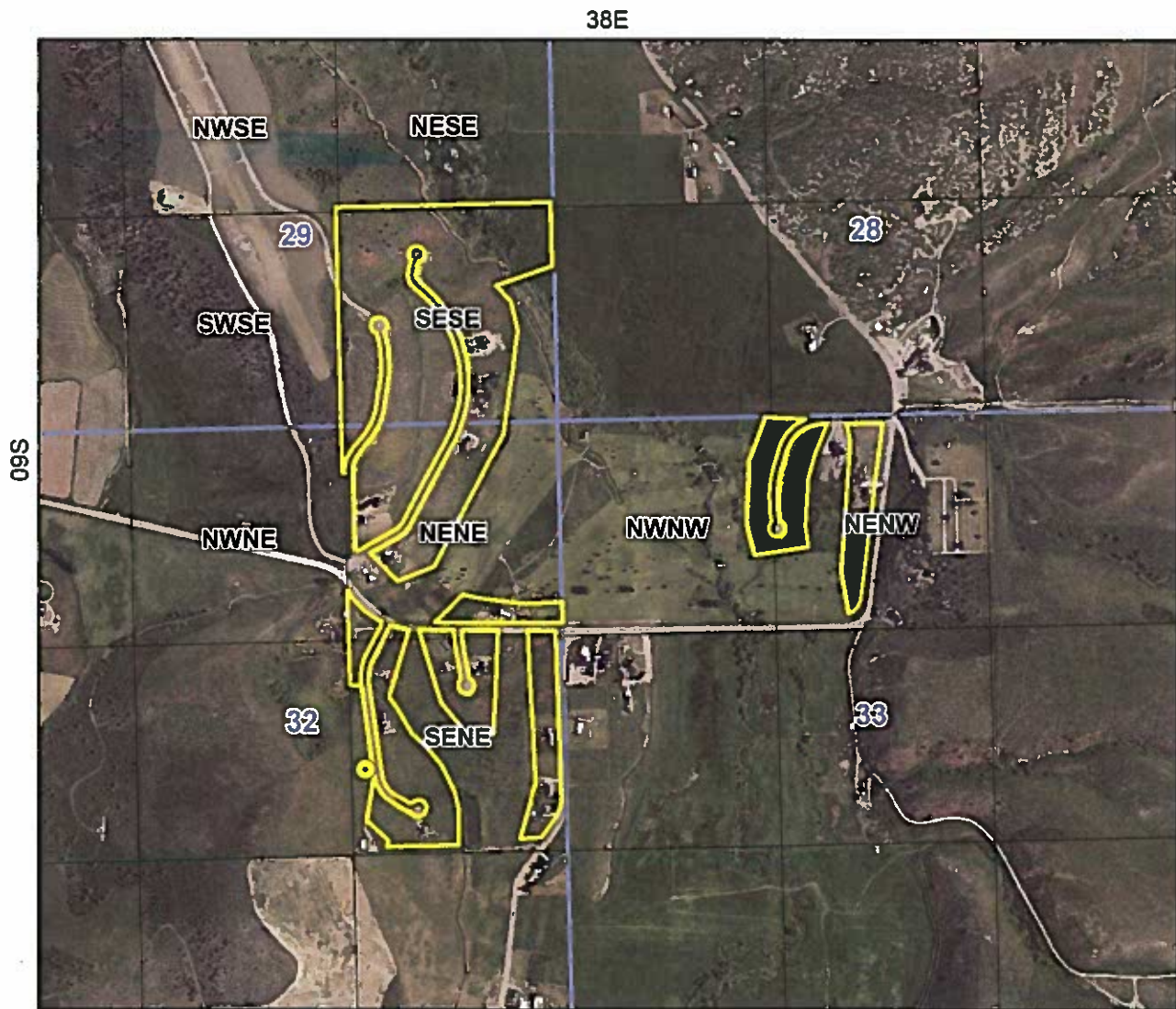
Reviewer

Date

12/7/2016

SEAL

State of Idaho
Department of Water Resources
Water Right License
29-13732



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

0 0.125 0.25 0.5 Miles





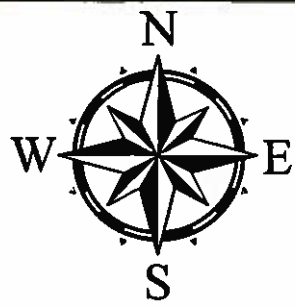
Legend

● Water Permit POD

Main pipe line

- Id
- 4"
 - 6"
 - 8"

0 0.05 0.1 0.2 Miles

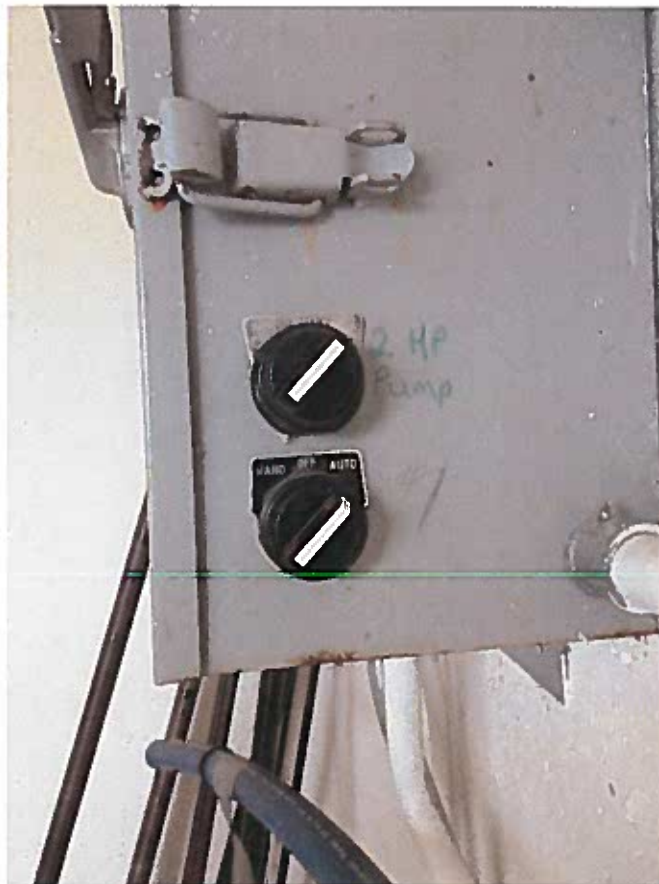


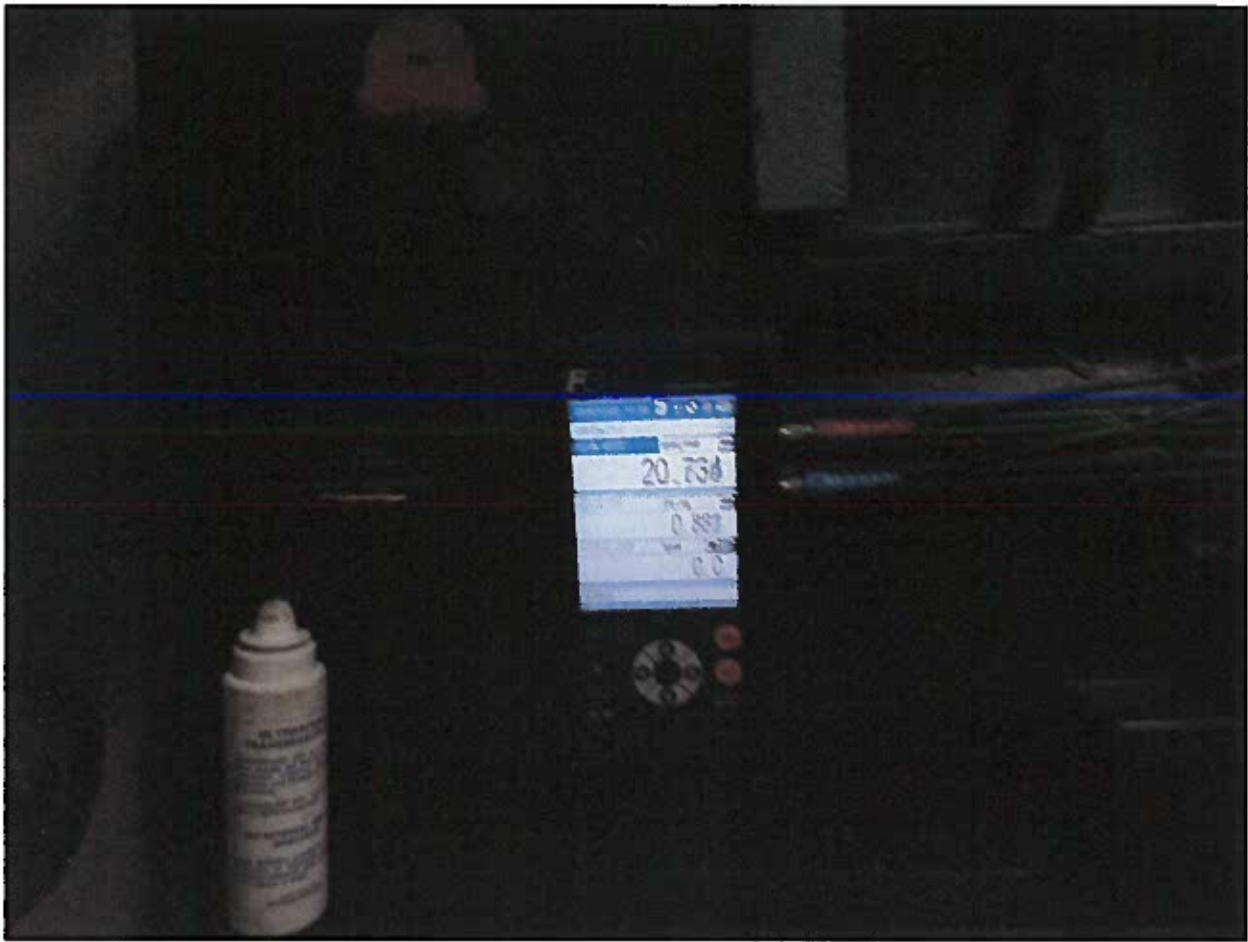
Map Created By: Cass Jones



Looking at the pipes routed in the pump house for well 1 and 2

Looking at the controls for well 1 and 2





Flow reading from well 2

New flow meter being installed





Pump House

Looking north east at the ~100,000 gal storage tank

