

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 36-8680
Exam Date: 09/11/2012
07/15/2019

1. Current Owner:
DINOS LLC
R BRUCE BRADLEY
AND/OR
DAWN ANN BRADLEY
14601 HAWKINS RD
ARIMO ID 83214

2. Accompanied by: Bruce and Dawn Bradley, permit holder (07/15/2019)

3. **SOURCE:**
GROUND WATER

B. OVERLAP REVIEW

1. Other water rights with the same place of use: 36-8112
2. Other water rights with the same point-of-diversion: 36-8112

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

GROUND WATER SW¼ SW¼, Sec. 14, Twp 08S, Rge 17E, B.M. JEROME County
GROUND WATER SW¼ SW¼, Sec. 14, Twp 08S, Rge 17E, B.M. JEROME County

Method of Determination: ArcMap aerial imagery, and site visit

PLACE OF USE: DOMESTIC

Twp	Rng	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
08S	17E	14											X						

Method of Determination: ArcMap aerial imagery, and site visit

3. Delivery System Diagram Attached (required). Indicate all major components and distances between components.
 X 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 or Diversion ID No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
Pump #1	N/A	10	N/A	Grundfos	N/A
Pump #2	N/A	5	N/A	Sta-Rite	N/A

D. FLOW MEASUREMENTS

1.

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date
N/A						

2. Measurements: None Taken

E. FLOW CALCULATIONS

_____ Additional Computation Sheets Attached

Measured Method: Theoretical Yield: $Q = \frac{8.8 \times (Hp) \times (Eff)}{H}$

Pump #1

Where Hp = 10

Eff = Efficiency = 70% assumed

H = total head = pumping level + (2.31 x system pressure)

H = 504' + (40 psi x 2.31) = 596.4

$$Q = \frac{8.8 \times 10 \times .70}{596.4} = 0.10 \text{ cfs}$$

Pump #2

Where Hp = 5

Eff = Efficiency = 70% assumed

H = total head = pumping level + (2.31 x system pressure)

H = 510' + (40 psi x 2.31) = 602.4

$$Q = \frac{8.8 \times 5 \times .70}{602.4} = 0.05 \text{ cfs}$$
F. VOLUME CALCULATIONS

1. Volume Calculations for irrigation: N/A

Irrigation is covered under Water Right 36-8112

2. Volume Calculations for Other Uses: Domestic

Allowable acre feet per home of 0.6 af, for in house use

Mobile home spaces = 4 X 0.6 af = 2.4 AF

G. NARRATIVE/REMARKS/COMMENTS

An application for permit 36-8680 was filed on September 30, 1992 by Elsie R. Colvin for 0.10 cfs for domestic use associated with 4 mobile home sites and the additional capacity needed above an existing right 36-8112 associated with the system. Permit 36-8680 was issued March 16, 1993. Proof of beneficial use was due on or before April 1, 1996. An assignment of permit was filed by Elsie R. Colvin to Barton Dean and Carrie R. Colvin on April 22, 1996. Proof of beneficial use was also filed on April 22, 1996 by Barton D. and Carrie R. Colvin. On January 13, 2003 Barton Dean and Carrie R. Colvin filed an assignment of permit to R. Bruce and Dawn Ann Bradley, DBA Dino's LLC. The initial beneficial use field exam was conducted by Jim Stanton on July 9, 1996.

On July 15, 2019 I met with Bruce and Dawn Bradley to verify the development of permit 36-8680 and to complete the exam. From Jim Stanton's exam, he noted that there were two wells and pumps connected together to a pressure tank and piped to 5 spaces for mobile homes and/or motor homes and travel trailers. Additionally these wells serve two homes, a shop/business and a café/bar. The two wells have a 5 hp and 10 hp pump. During my visit with Mr. & Mrs. Bradley I confirmed that the system has two wells, the location of the two wells and that both wells are used for the place of use. The place of use consist of; Irrigation of 1 acre, 2 homes, Shop and office, Bar/Café and 5 mobile home spaces. Water right 36-8112 was licensed in 1989 and did not cover mobile home spaces, also the 2002 decree does not list mobile homes or specify what the commercial use is for. As indicated as follows

Field Exam 36-8112: uses

Irrigation - 1 acre
Domestic - 2 homes
Commercial – restaurant,
service station and bar

36-8112 License 1989: uses

Irrigation - 1 acre
Domestic - 1 home
Commercial – bar and café,
service station

36-8112 Decree 2002: uses

Irrigation - 1 acre
Domestic - 1 home
Commercial - Not specified

The system's capacity of 0.15 cfs is equal to or greater than the permitted amount of 0.10 cfs. (See Flow Calculations)

Therefore I recommend licensing 36-8680 for 0.10 cfs and four mobile home spaces.

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>
DOMESTIC	1/01 to 12/31	0.10 CFS	2.4 AF

Totals:

0.10 CFS

2.4 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 Benny Walker Date 8/20/2019

Reviewer _____ Date _____

[illegible]

3. **Delivery System Diagram:** Indicate all major components and distances between components. Indicate weir size/ditch size/pipe i.d. as applicable.

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
1	Grundfos	10		Grundfos	
2	St-Rite	5			

*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

2. Measurements: Not measured. Pump #1 rated 40 gpm at 40 psi & 504' lift.
= 0.07 cfs. Well #2 theoretical capacity = 0.05 cfs at 510' lift per Smith
Drilling & Pump Co. (original well replaced in 1975).

E. NARRATIVE/REMARKS/COMMENTS

Two connected wells & pumps, pressure tanks, pipelines to five mobile homes or motor homes. The west well (10 hp pump) is in a shed behind the Oak Connection. This well mainly serves commercial businesses, but can provide a backup domestic supply if needed.

Have conditions of permit approval been met? ☒ yes ☐ no

F. FLOW CALCULATIONS

____ Additional Computation Sheets Attached

Measured Method: *decreased*

System is licensed for 0.04 cfs, but capacity = 0.14 cfs. This leaves 0.10 cfs to be accounted for, Permit is for 0.10 cfs, recommend licensing this amount.

G. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

 $V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) =$ _____ $V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation Season}) \times 1.9835 =$ _____ $V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} =$ _____

2. Volume Calculations for Other Uses:

Domestic - Allow in-house use for 4 homes = $4 \times 0.6 \text{ AFA/home} = 2.4 \text{ AFA}$

H. RECOMMENDATIONS

1. Recommended Amounts

Beneficial Use	Period of Use		Rate of Diversion Q (cfs)	Annual Volume V (afa)
	From	To		
<i>Domestic</i>	<i>1-1</i>	<i>12-31</i>	<i>0.04 0.10</i>	<i>2.4</i>
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
Totals:			<i>0.04 0.10</i>	<i>2.4</i>

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 _____

Reviewer _____ Date _____

SEAL



P/U



36-08680

7-9-96 JES



Well & 10 hp Pump



Well & 5 hp Pump

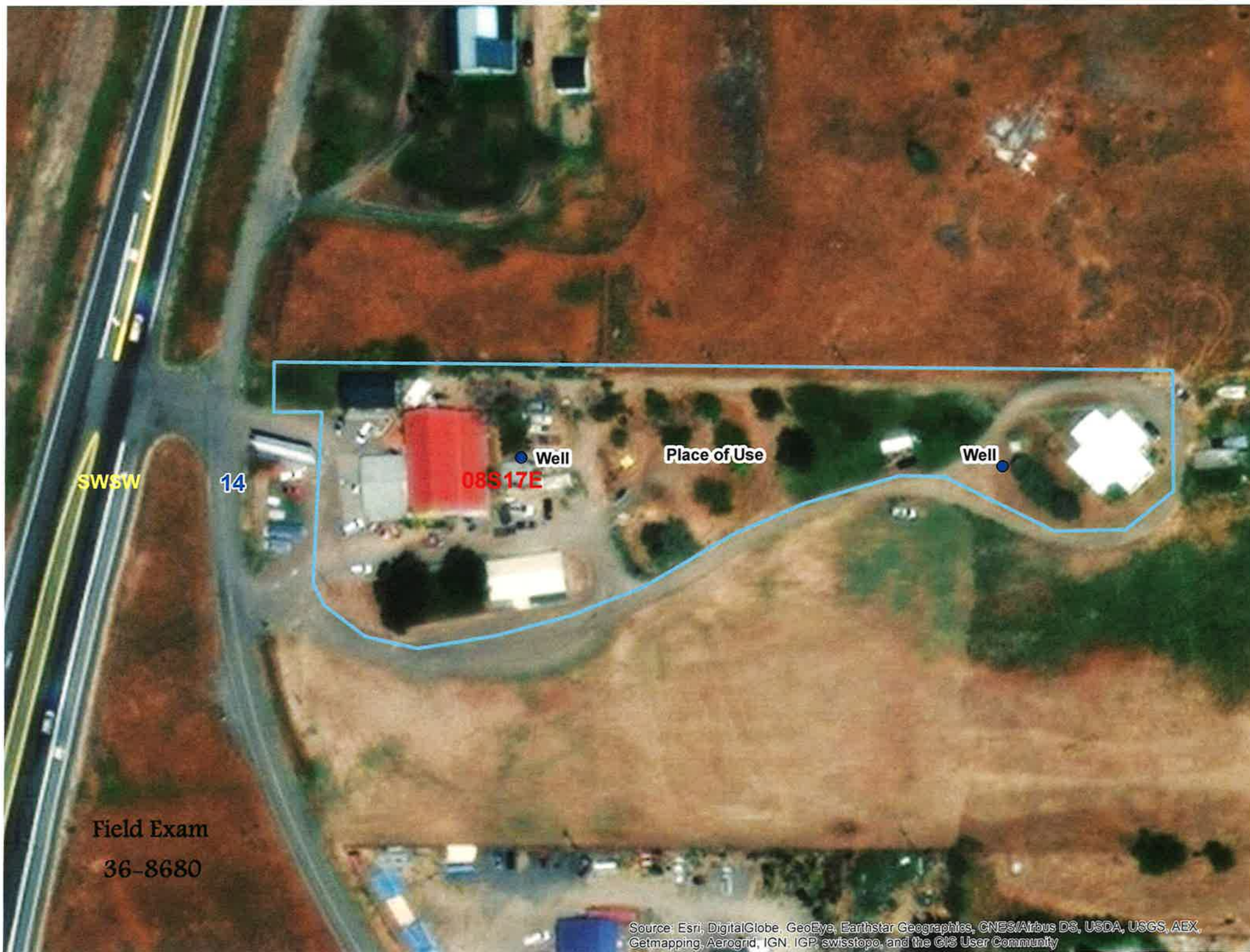
36-8680 7-9-96
JES

Permit 36-8680



Well head and shed containing pressure tank





Untitled Map

Write a description for your map.

Legend



Google Earth

Field Exam 36-8680



200 ft

Image © 2019 Maxar Technologies