

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 63-33294

Exam Date: 10/26/2012

1. Current Owner: OLAN S GRAYSON
29408 HOWE
WILDER ID 83676
(208) 482-7248

ELAINE GRAYSON
29408 HOWE
WILDER ID 83676
(208) 482-7248

2. Accompanied by: Olan and Elaine Grayson

Phone No: same

Address:

Relationship to Permit Holder: Permit holders

3. SOURCETRIBUTARY

GROUND WATER

B. OVERLAP REVIEW

1. Other water rights with the same place of use: None. No canal shares either
2. Other water rights with the same point of diversion: None

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

GROUND WATER

L1 NW1/4NW1/4

Sec. 7, Twp 04N, Rge 05W, B.M.

CANYON County

Method of Determination: Field exam and GPS

2. PLACE OF USE: IRRIGATION

Twp	Rge	Sec	NE				NW				SW				SE				Totals
04N	05W	7	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	27.0
Total Acres:			27				L 1												

Method of Determination: Field exam and ArcMap

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

<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 Size</u>
	?	25hp	MNJ1214277	Johnson	6 inch discharge

D. FLOW MEASUREMENTS

1.

Measurement

<u>Equipment</u>	<u>Type</u>	<u>Make</u>	<u>Model No.</u>	<u>Serial No.</u>	<u>Size</u>	<u>Calib. Date</u>
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Theoretical calculations only

2. Measurements: N/A

E. FLOW CALCULATIONS

____ Additional Computation Sheets Attached

Measured Method: Well = 90 ft deep with a static level of 6 ft.

Dynamic level estimate = (90-6) / 2 = 27 ft

$$\frac{(25) \text{ Hp} \times 8.8 \times 0.7}{(45) \text{ PSI} \times 2.31} + 27 \text{ ft} = 1.18 \text{ cfs}$$

The sprinkler system is 2 wheel lines operating together with 32 heads on one and 16 heads on the other for a total of 48 heads. The sprinklers have 3/16ths nozzles. Using the same 45 PSI and using the RainBird calculator for mainline pipe size and precipitation rate I found that each head would produce 6.9 gpm. 48 heads at 6.9 gpm = 331.2 gpm or 0.73 cfs. Both methods indicate that the system capacity exceeds one inch per acre.

Permit Rate (irr) =	<u>0.54 cfs</u>
Proof Pd (\$105.00) (max cfs) =	<u>1.00 cfs</u>
Found POU acres 27.0*0.02 cfs/ac =	<u>0.54 cfs</u>
Measured rate (theoretical) =	<u>0.73 cfs</u>
Recommendation in Red	

F. VOLUME CALCULATIONS

V= (Acres Irrigated) x (Irrigation Requirement) =	27ac 4.5 af	= 121.5 afa
I.R.		
V= [Div Rate (cfs)] x (Days in Irr season) x 1.9835 =	0.54 cfs * 260 days * 1.9835 =	278.5 afa
D.R.		

G. NARRATIVE/REMARKS/COMMENTS

The system is a well tied into a 6 inch surface aluminum mainline running north and south from the well which is located on the east side of the POU. According to the permit holder the well was drilled in the early 1970s. I was unable to locate a well log. The north portion of the POU is narrower than the south portion. There are two wheel lines associated with each segment. The north wheel line has 16 sprinklers with 3/16 in nozzles. The south line has 32 sprinklers again with the 3.16 in nozzles. Both lines operate at the same time. The permit holder stated that the system normally operates between 45 and 50 PSI. The found information matches the permitted elements.

There are no other rights associated with this system. There is no canal water associated with this system either. Permit conditions have been met.

Have conditions of permit approval been met? X 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	03/01 to 11/15	0.540 CFS	121.50 AF
<u>Totals:</u>		0.540 CFS	121.50 AF

2. Recommended Amendments____ Change P.D. as reflected above ____ Add P.D. as reflected above X None

____ Change P.U. as reflected above ____ Add P.U. as reflected above ____ Other

I. AUTHENTICATIONField Examiner's Name Kelly K. Christensen Date Oct 26, 2012

Reviewer _____ Date _____

63-33294 LICENSING PLACE OF USE



★ LOCATION IN BASIN

PLACE OF USE
TWP 04N, RNG 5W Sec 7
Data Entry on October 26, 2012



- ★ Found point of diversion
- Found place of use
- Township lines
- Section lines
- Quarter/quarter lines

*GIS PLACE OF USE PRESENTATION
2011 AERIAL PHOTOGRAPHY
BY KELLY K CHRISTENSEN*

Basin 63



Permit # 63-33294

Exam date 10-26-12

Agent KKC

FIELD EXAM MAP

Aerial photo date 2011

Twp Rng Sec QQ

4N 05W 07 NWNW



HP 25 wheel line 32 long $\frac{3}{16}$ " nozzles
6' ~~90'~~ to water 16 short 45 to 50 PSI
90' total depth Both wheel lines run @ same time.
no canal water used on property

**IDAHO DEPARTMENT OF WATER RESOURCES
FIELD EXAMINERS
WELL INSPECTION FORM**

1. IDENTIFICATION # _____ (Tag #, etc.)

OTHER APPLICABLE # 63-33294 (Water right #, etc.)

2. OWNER Olan S. Grayson Phone _____

Address 29408 Howe Rd City Wilder

State Id Zip 83676 Email egrayson48@gmail.com

3. WELL LOCATION (GPS required in Degrees Decimal Minutes – use PLS if GPS not available)

Lat. 43.70336 Long. 116.98722

Twp 4N Rge 5W Sec 7 $\frac{1}{4}$ NW $\frac{1}{4}$ NW

4. WELL CONSTRUCTION ☐ Well log attached ☒ Well log not found

Any obvious construction problems that may be a source for contamination or waste? ☐ Yes ☒ No

If yes, describe below &/or see attached (list any that apply): ☐ Photos ☐ Diagram ☐ Other

5. HYDROLOGIC INFORMATION

Static water if measured 6' per permit holder ft. Water temperature if measured _____ °F

Flowing artesian ☐ Yes ☒ No Pressure if measured _____ psi

NOTES

Stated depth = 90'
12" casing $\approx$ 14" above gnd level
drilled in early 1970^s

INSPECTED BY Kelly K. Christensen DATE 10-26-12

63-33294

EXAM NOTES 10-26-2012

Motor 25HP GPS#3

Ser# MNJ 1214277

Johnston 6" discharge

Casing 12"

63-33294

Field exam 10-26-2012

By Kelly K Christensen

Picture set 1

You are looking south on the left to southwest on the right across the southern portion of the POU. A wheel line is at the end of the field running east and west. The mainline is in the weeds on the left.



Photo 2

You are looking north in this photo. This shows the narrower portion of the POU and the wheel line associated with this portion of the field. The mainline is in the weeds on the right



Photo 3

You are looking west in this photo. A GPS reading was taken on top of the motor.

