

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 85-15733

Exam Date: 06/11/2018

1. Current Owner:
FLYING B FAMILY FARMS I LLC 369 LYTLE CREEK RD LYTLE CREEK CA 92358
2. Accompanied by: Cory Baune
Phone No: 208-816-0515
Address: 2075 Damen St Moscow ID 83843
Relationship to permit Holder: Representative

3. SOURCE: GROUND WATER

Method of Determination: Arcmap and DRG

B. OVERLAP REVIEW

1. Other water rights with the same place of use: None

Water Right No.	Source	Purpose of Use	Basis
N/A			

Comments: _____

2. Other water rights with the same point-of-diversion: None

Water Right No.	Source	Purpose of Use	Basis
N/A			

Comments: _____

C. DIVERSION AND DELIVERY SYSTEM

1. LOCATION OF POINT(S) OF DIVERSION:

GROUND WATER SE¼ NE¼ NW¼, Sec. 31, Twp 35N, Rge 04W, B.M. NEZ PERCE County

Method of Determination: Maps and GPS. POD D0059282 located at -116° 53.311, 46° 20.231 given IDWR tag A0015419

PLACE OF USE: IRRIGATION

[illegible]

Total Acres: 1.4

PLACE OF USE: DOMESTIC

[illegible]

Method of Determination: Google Earth and Arcmap

3.

X Delivery System Diagram Attached (required). Indicate all major components and distances between components. 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
D0059282	Grundfos	15		GF150S150-8	

D. FLOW MEASUREMENTS

1.

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

2. Measurements: N/A

E. FLOW CALCULATIONS

X Additional Computation Sheets Attached

Measured Method: Unable to perform flow measurement because water was pumped directly to storage tank with no exposed pipe. Pump curve attached using depth provided by pump installer.

F. VOLUME CALCULATIONS

1. Volume Calculations for irrigation:

$$V_{IR} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 1.4 \text{ AC} \times 4.0 \text{ AF} = 5.6 \text{ AF}$$

$$V_{DR} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.04 \text{ CFS} \times 246 \times 1.9835 = 19.5 \text{ AF}$$

$$V = \text{Smaller of } V_{IR} \text{ and } V_{DR} = 5.6 \text{ AF}$$

2. Volume Calculations for Other Uses: Domestic use for 1 home is equal to 0.6 acre-feet

G. NARRATIVE/REMARKS/COMMENTS

Field exam with Cory Baune, applicant's representative, showed a well being used for domestic and irrigation purposes. The well, D0059282, had a 15 hp Grundfos pump that diverted water into a 10,800 gallon concrete storage vault. I was unable to perform a flow measurement because water from well was diverted directly into vault with no exposed piping for a measurement. Mr. Baune did have a receipt from the pump installer showing what type of pump was installed. A phone call

was placed to the pump installer during licensing to confirm the details about the pump. The installer confirmed he installed the 15 hp Grundfos 3 phase pump and placed it at 400 feet. A pump curve was found showing the class eight 15 hp pump could divert around 63 gpm or 0.14 cfs at 400 feet.

The domestic use was for a home built on the property along with landscape irrigation. The irrigation was traced out to be 1.4 acres. The permit was issued for 10 acres of irrigation but only landscape irrigation could be found on aerial photography. The applicant's property was 40 acres in size, but the remainder of the property was dry land farmed. I was under the impression that the representative was trying to show during the exam that they were irrigating the dry land wheat. The license will be issued for the 1.4 acres which could be accounted for up to the time the beneficial use statement was submitted. The domestic use will receive a diversion rate of 0.04 cfs and an annual volume of 0.6 acre-feet. The irrigation component will also receive a diversion rate of 0.04 cfs with an annual volume of 5.6 acre-feet. The overall diversion rate will be for 0.08 cfs which is below what the pump can produce. The pump is a 3 phase that probably does not divert the maximum rate. If there were ever regulation of groundwater in the area, they might be forced to cut back their diversion or put in a smaller pump.

Conditions 26A, X02 and 046 will be removed from the license. I believe when the permit was issued, they were unaware that the headgate requirement was actually 4.0 afa per acre. The permit was issued with condition R62 which is for 3.0 afa per acre. The license will be corrected to show condition R68 which is for 0.03 cfs per acre and 4.0 afa per acre. There are no overlap concerns.

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	03/15 to 11/15	0.04 CFS	5.6 AF
DOMESTIC	01/01 to 12/31	0.04 CFS	0.6 AF
<u>Totals:</u>		0.08 CFS	6.2 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

Adam Frederick - Water Resource Agent, Senior

Field Examiner's Name Adam Frederick Date 2/27/2019
 Reviewer Douglas Jones P.E. Date 2/28/2019

State of Idaho
Department of Water Resources
Attachment to Field Exam
85-15733

DOMESTIC / SYSTEM DIAGRAM

04W



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

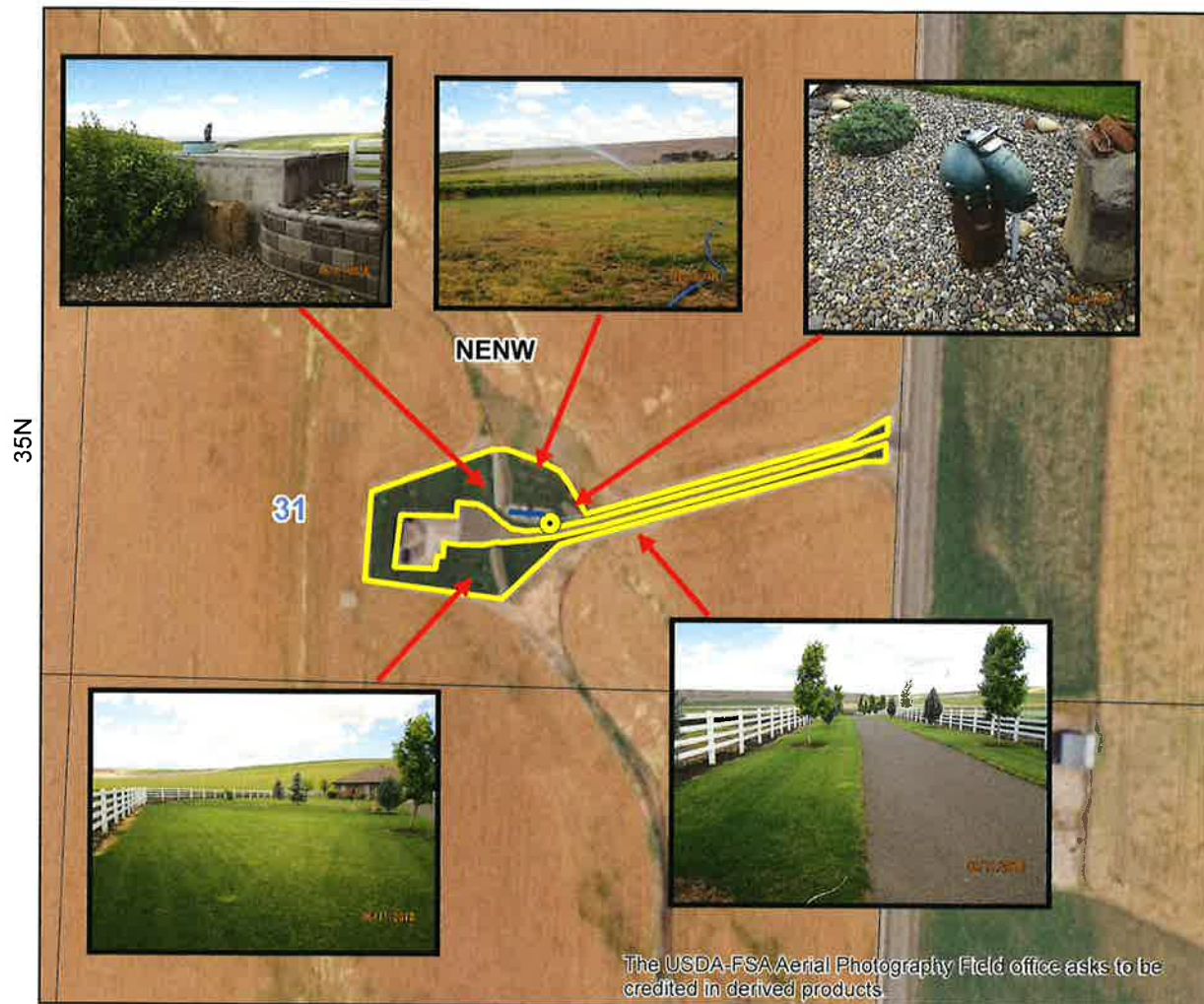
0 0.035 0.07 0.14 Miles



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IRRIGATION / SYSTEM DIAGRAM

04W

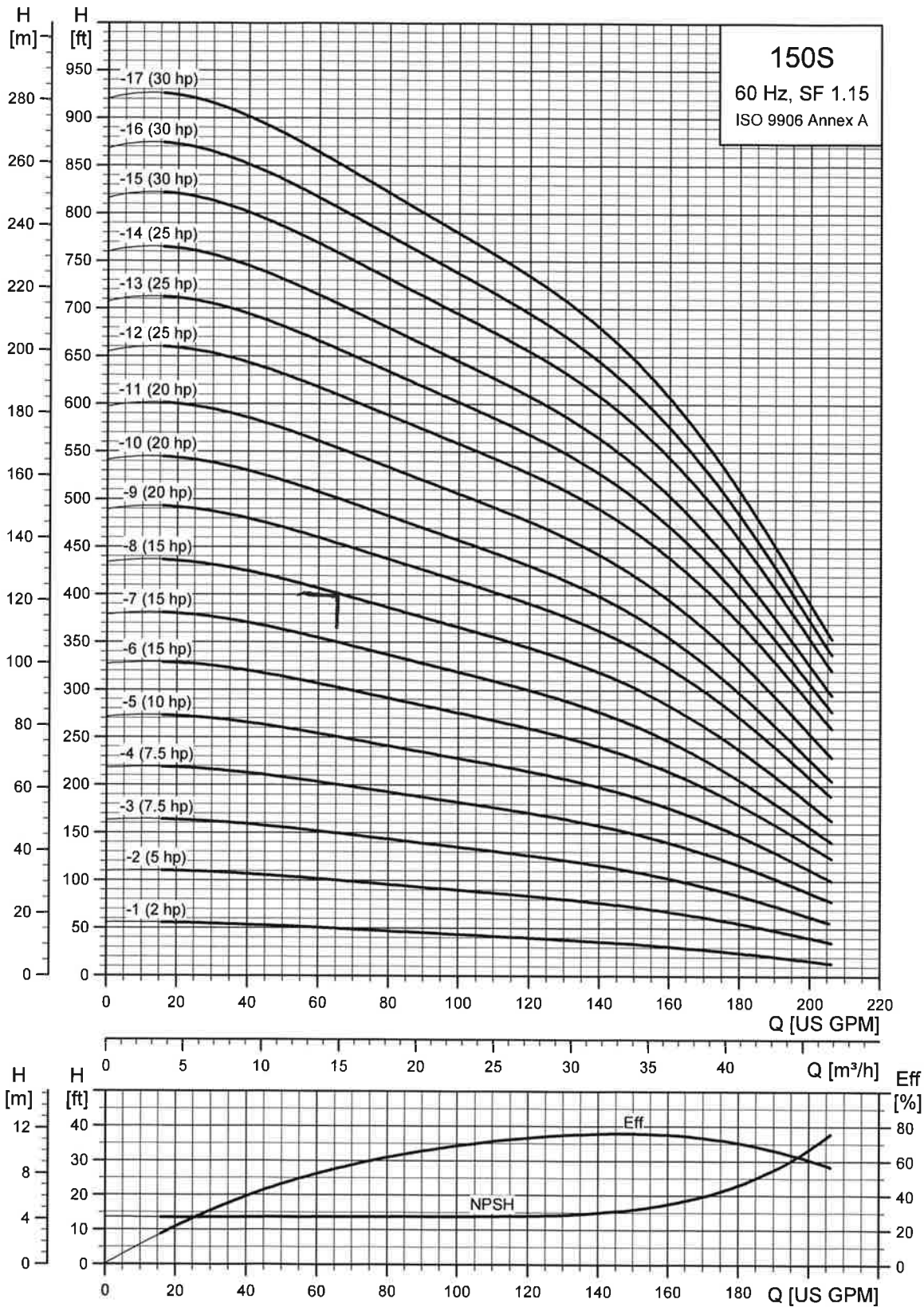


-  Point of Diversion
-  Place Of Use Boundary
-  Townships
-  PLS Sections
-  Quarter Quarters

0 0.035 0.07 0.14 Miles



150S (150 gpm)



TM05 0239 1812



Well D0059282



Pressure tanks and booster pump from reservoir.



10,800 gallon reservoir.



Irrigation and domestic place of use.





Irrigation and domestic place of use.





Irrigation place of use with portable gun.





Irrigation place of use.

