

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 96-09376
Exam Date: 8/30/2018

1. Current Owner:
SUSEN FAY PO BOX 25 KOOTENAI ID 83840 (208) 304-3303
2. Accompanied by: Susen Fay
Relationship to Permit Holder: Permit holder
3. **SOURCE:**
GROUND WATER

TRIBUTARY:**B. OVERLAP REVIEW**

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

C. DIVERSION AND DELIVERY SYSTEM**1. LOCATION OF POINT(S) OF DIVERSION:**

GROUND WATER SW¼SW¼ Sec. 24, Twp 58N, Rge 01W, B.M. BONNER County

Method of Determination: Maps and GPS. POD located at -116° 24.929, 48° 21.529 (D0053641) given IDWR tag A0020194

2.

PLACE OF USE: DOMESTIC

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
58N	01W	24											X						

PLACE OF USE: STOCKWATER

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
58N	01W	24											X						

PLACE OF USE: IRRIGATION

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
58N	01W	24											3.5						3.5

Total Acres: 3.5

Method of Determination: Google Earth and Arcmap.

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
D0053641	UNKOWN				

*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
5 GALLON BUCKET						

2. Measurements: 5 gallon bucket test performed in 34 sec, 34 sec, and 33.8 sec for average of 34 seconds.

5 gal / 34 sec x 60 sec = 8.8 gpm or 0.02 cfs

E. FLOW CALCULATIONS

Measured Method: A theoretical pumping equation was _____ Additional Computation Sheets Attached
 performed to estimate the size of the pump but will not be included in the file as it is unknown the actual size of the pump.

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{IR} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 3.5 \text{ AC} \times 3.0 = 10.5 \text{ AF}$$

$$V_{DR} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.02 \text{ CFS} \times 214 \times 1.9835 = 8.5 \text{ AF}$$

$$V = \text{Smaller of } V_{IR} \text{ and } V_{DR} = 8.5 \text{ AF}$$

2. Volume Calculations for Other Uses: Domestic use for 1 home = 0.6 AF

$$\text{Stockwater for 3 mini horses} = 3 \text{ horses} \times 5 \text{ gpd} \times 365 \text{ days} = 5475 \text{ gpy} / 325,850 = 0.02 \text{ AF rounded up to 0.1 AF}$$

G. NARRATIVE/REMARKS/COMMENTS

Field exam with applicant, Susen Fay, showed a well being used for domestic, irrigation, and stockwater. The well, D0053641 was given IDWR tag A0020194 once a GPS was taken of the location. A 5 gallon bucket test was performed and filled in an average of 34 seconds which is equal to 8.8 gpm or 0.02 cfs. It was unknown pump size as electrical box had a bee's nest and did not have an identification tag. A theoretical pumping equation estimates the pump size could be equal to a 2hp pump set at 645 feet.

Water was used for domestic purposes for the home, stockwatering of 3 miniature horses, and the irrigation of 3.5 acres of the property. There were numerous frost free hydrants around the property with hoses and mini big guns for the irrigation. The lawn was a lot greener around the house because they watered that more consistently than the rest of the grass. The applicant stated they would irrigate as they could around the rest of the grassy areas to help with the fire danger.

The license will be issued for a diversion rate of 0.02 cfs with an annual volume of 9.2 acre-feet. The home will be given the standard volume of 0.6 acre-feet and stockwatering will be given the minimum we can give of 0.1 acre-feet. The irrigation component will be given less than the standard of 3.0 afa because the diversion rate cannot produce that much. The irrigation component will be given an annual volume of 8.5 acre-feet based upon the diversion rate and season of use.

Conditions 046, X02, and 26A will be removed from the license as they are no longer needed. Condition R66 will be changed out for R62 which will be modified to only show 0.02 cfs per acre with volume per acre. The reason no acre-feet will be listed is because 8.5 acre-feet doesn't divide evenly by 3.5 acres. During pre-exam it was noted there were two pond on the property. It was discussed with the applicant during the field exam and she explained they were built by the previous owner prior to them buying the property. She was fine with submitting an application for permit with my assistance. The two ponds are now covered under permit 96-9723. There are no other 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>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
DOMESTIC	01/01 to 12/31	0.02 CFS	0.6 AF
IRRIGATION	04/01 to 10/31	0.02 CFS	8.5 AF
STOCKWATER	01/01 to 12/31	0.02 CFS	0.1 AF
<u>Totals:</u>		0.020 CFS	9.20 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 Adam Fink Date 2/6/2019
Reviewer Douglas Jones P.E. Date 2/28/2019

State of Idaho
Department of Water Resources
Attachment to Field Exam
96-9376

IRRIGATION / SYSTEM DIAGRAM

01W



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

0 0.035 0.07 0.14 Miles



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DOMESTIC

01W



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

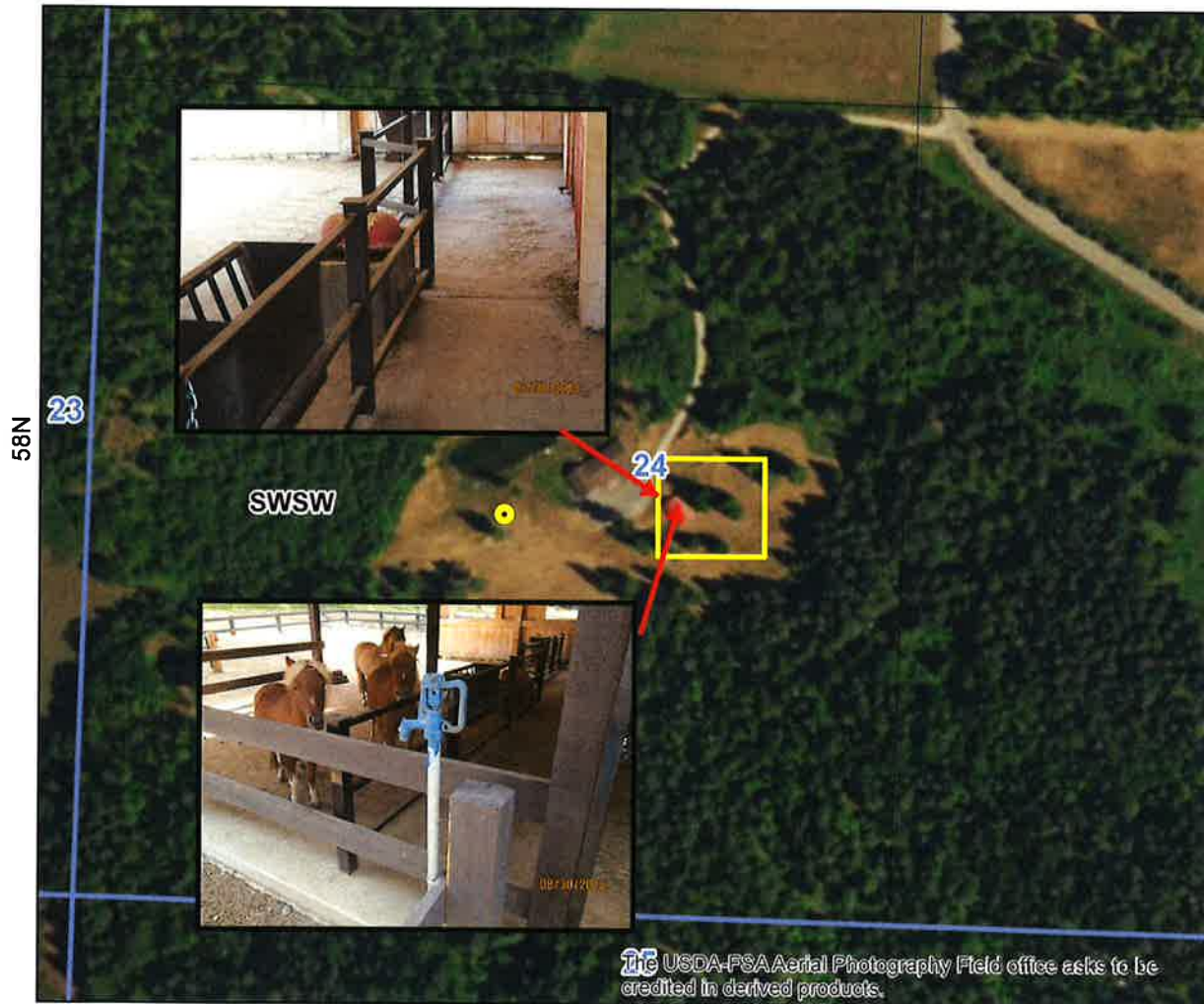
0 0.035 0.07 0.14 Miles



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STOCKWATER

01W



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

0 0.035 0.07 0.14 Miles



IDAHO DEPARTMENT OF WATER RESOURCES WELL DRILLER'S REPORT

Office Use Only			
Well ID No. _____			
Inspected by _____			
Twp _____	Rge _____	Sec _____	
1/4 _____	1/4 _____	1/4 _____	
Lat: _____		Long: _____	

1. WELL TAG NO. D 0053641
 DRILLING PERMIT NO. 848771
 Water Right or Injection Well No. _____



2. OWNER:
 Name Jasen Fay
 Address 6636 Surf Crest St
 City Carlsbad State CA Zip 92011

3. LOCATION OF WELL by legal description:
 You must provide address or Lot, Blk, Sub. or Directions to well.
 Twp. 58N North ☒ or South ☐
 Rge. 01 East ☐ or West ☒
 Sec. 24 1/4 SW 1/4 SW 1/4
 Gov't Lot _____
 County Bonner
 Lat: N48:21:54 Long: W116:24:813
 Address of Well Site 2732 Lower Rock River rd
 City Scorpion
 (Give at least name of road + Distance to Road or Landmark)
 Lt. _____ Blk. _____ Sub. Name _____

4. USE:
☒ Domestic ☐ Municipal ☐ Monitor ☐ Irrigation
☐ Thermal ☐ Injection ☐ Other _____

5. TYPE OF WORK check all that apply (Replacement etc.)
☒ New Well ☐ Modify ☐ Abandonment ☐ Other _____

6. DRILL METHOD:
☒ Air Rotary ☐ Cable ☐ Mud Rotary ☐ Other _____

7. SEALING PROCEDURES

Seal Material	From	To	Weight / Volume	Seal Placement Method
Bentonite	0	30	200	Overbone

Was drive shoe used? ☒ Y ☐ N Shoe Depth(s) 30
 Was drive shoe seal tested? ☐ Y ☒ N How? _____

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
6	H	35	280	steel	☒	☐	☒	☐
4	-20	660	200	plastic	☐	☒	☐	☐

Length of Headpipe _____ Length of Tailpipe _____
 Packer ☐ Y ☒ N Type _____

9. PERFORATIONS/SCREENS PACKER TYPE

Perforation Method Black & Decker Perforator
 Screen Type & Method of Installation _____

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
400	660	1/2	400	4	plastic	☐	☒

10. FILTER PACK

Filter Material	From	To	Weight / Volume	Placement Method

11. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

70 ft. below ground Artesian pressure _____ lb.
 Depth flow encountered 640 ft. Describe access port or control devices:
well seal

12. WELL TESTS:

☐ Pump	☐ Bailer	☒ Air	☐ Flowing Artesian
Yield gal./min.	Drawdown	Pumping Level	Time
1	590	660	2

Water Temp. 47 Bottom hole temp. _____
 Water Quality test or comments: Good

13. LITHOLOGIC LOG: (Describe repairs or abandonment)

Bore Dia	From	To	Remarks: Lithology, Water Quality & Temperature	Water
				Y N
8	0	1	Topsoil	
8	1	28	Overburden	Y
8	28	35	Black Rock	Y
6	35	640	Black Rock	X
6	640	644	Salt in rock	X
6	644	660	Black Rock	X

RECEIVED

OCT 15 2007

IDWR/North

Completed Depth 660 (Measurable)
 Date: Started 8-28-07 Completed 9-17-07

14. DRILLER'S CERTIFICATION

I/We certify that all minimum well construction standards were complied with at the time the rig was removed.

Company Name Bob Pitts & sons Firm No. 235

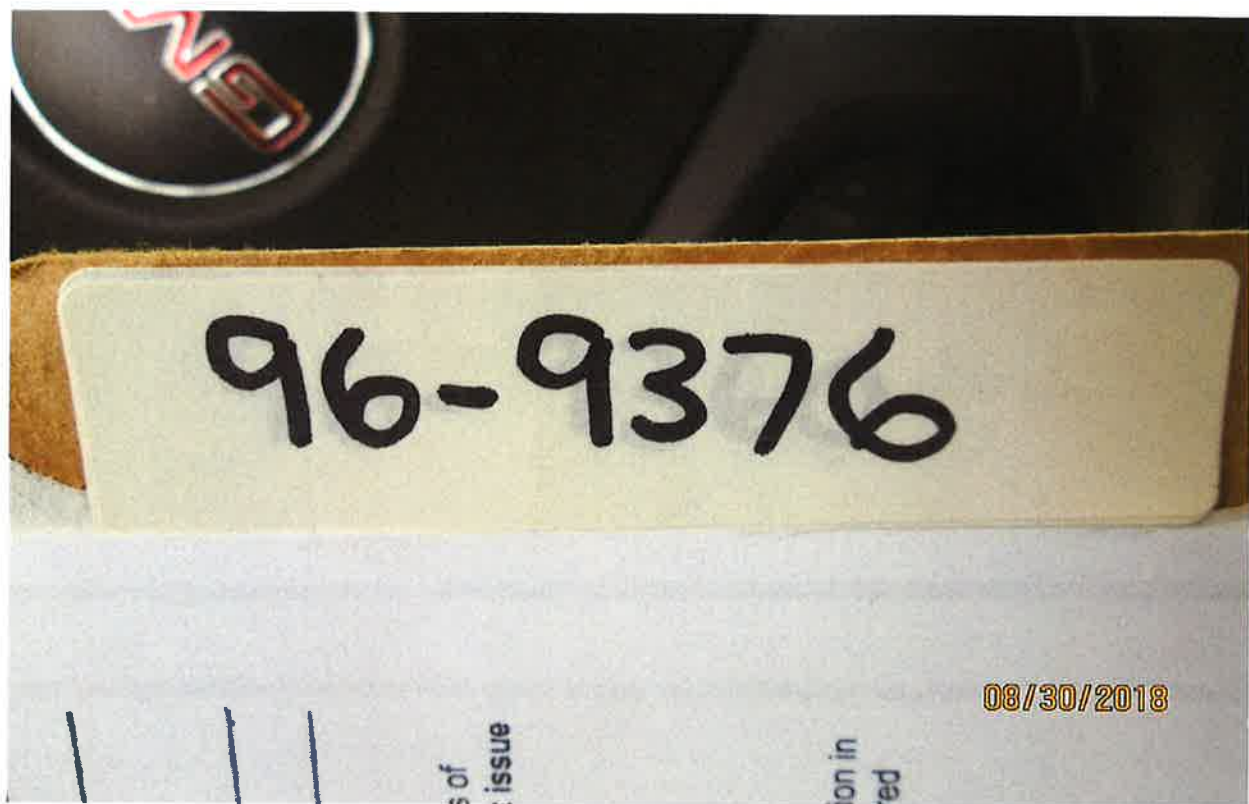
Principal Driller Bob Pitts Date 9-17-07

Driller or Operator II _____ Date _____

Operator I _____ Date _____

Principal Driller and Rig Operator Required.
 Operator I must have signature of Driller/Operator II.

FORWARD WHITE COPY TO WATER RESOURCES



Picture of well in background D0053641 given IDWR tag A0020194. Unfortunately close up photo of well was too blurry to add to photos.



Irrigation sprinkler and hose used for 5 gallon bucket test in 34 seconds or 8.8 gpm or 0.02 cfs.



Irrigation POU.



Irrigation POU.





Irrigation POU.





Irrigation POU.





Stockwater.





Home.



Irrigation POU.