

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 96-09375

Exam Date: 5/20/2016

1. Current Owner:

JAMES C FORELL 11616 BALDY MT RD SANDPOINT ID 83864 (208)263-5934

Or

JOLA M FORELL 11616 BALDY MT RD SANDPOINT ID 83864 (208)263-5934

2. Accompanied by: Applicant

3. SOURCE: GROUND WATER

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 SYSTEM1. LOCATION OF POINT(S) OF DIVERSION:

GROUND WATER SW¼NW¼ Sec. 17, Twp 57N, Rge 02W, B.M. BONNER County

Method of Determination: GPS and maps. POD location at 116° 36.614, 48° 17.316 (A0003215)

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	
57N	02W	17							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	
57N	02W	17							2.4										2.4

Total Acres: 2.4

Method of Determination: GPS, maps, and google earth.

3.

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
D0028902		3			

*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:

E. FLOW CALCULATIONS

Measured Method: UNABLE TO PERFORM FLOW MEASUREMENT. THEORETICAL PUMPING EQUATION ESTIMATES FLOW RATE

Additional Computation Sheets Attached

$$(3 \text{ HP})(8.8)(0.8) / (430 + (40 \times 2.3087)) = 0.04 \text{ CFS}$$

F. VOLUME CALCULATIONS**1. Volume Calculations for Irrigation:**

$$V_{IR} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 2.4 \text{ AC} \times 3 \text{ AF} = 7.2 \text{ AF}$$

$$V_{DR} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 214 \times 0.04 \times 1.9835 = 17.0 \text{ AF}$$

$$V = \text{Smaller of } V_{IR} \text{ and } V_{DR} = 7.2 \text{ AF}$$

2. Volume Calculations for Other Uses: DOMESTIC FOR 2 HOMES = 2 X .6 AF = 1.2 AF**G. NARRATIVE/REMARKS/COMMENTS**

FIELD EXAM SHOWED APPLICANT HAD WELL WITH 3 HP. THEORETICAL PUMPING EQUATION ESTIMATES FLOW RATE AT 18.2 GPM OR 0.04 CFS. LICENSE WILL BE ISSUED FOR 0.04 CFS FOR DOMESTIC FOR 2 HOME AND THE IRRIGATION OF 2.4 ACRES WITH ANNUAL VOLUME OF 8.4 AF.

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>
DOMESTIC	01/01 to 12/31	0.04 CFS	1.2 AF
IRRIGATION	04/01 to 10/31	0.04 CFS	7.2 AF
<u>Totals:</u>		0.040 CFS	8.40 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 X None

I. AUTHENTICATION

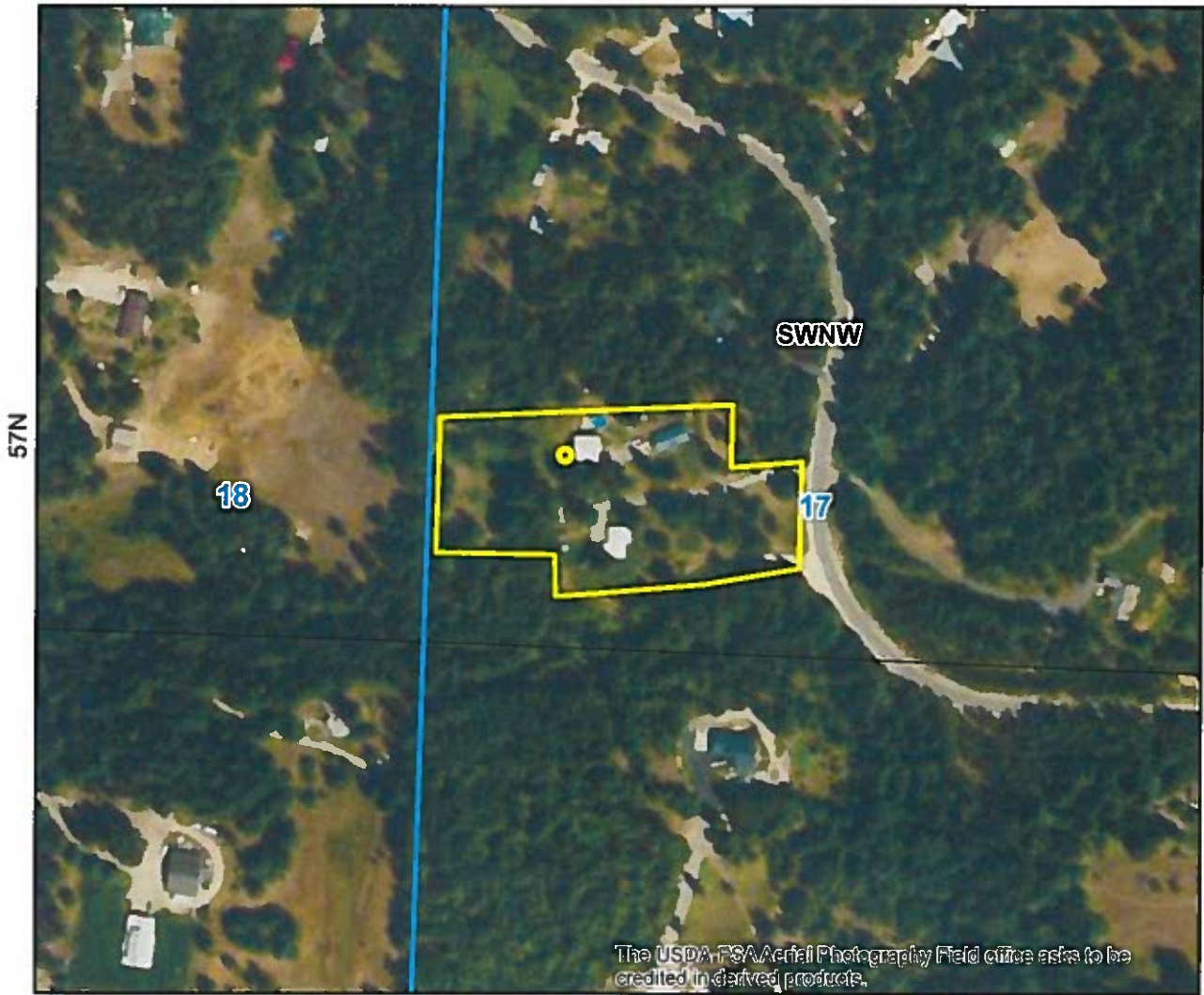
Field Examiner's Name Adam Furdick Date 5-20-2016

Reviewer _____ Date _____

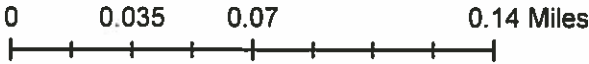
State of Idaho
Department of Water Resources
Water Right License
96-9375

DOMESTIC AND IRRIGATION

02W



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





Google earth

feet 500
meters 100





96-9375



96-9375



96-9275

3 HP PUMP IN WELL. IDWR WILL ASSUME PUMP IS SET AT 430 FEET AND RUNNING AT 40 PSI.

PUMP EQUATIONS WATER RIGHT No. 96-9375						
		HP	H in feet	Efficienc y as a decimal	Pumpin g lift in feet	System pressur e in PSI
Q =	HP*8.8*Eff/ H	3	522.51 7	0.8	430	40
Q = 0.040 cfs 18.2 gpm						

IDAHO DEPARTMENT OF WATER RESOURCES WELL DRILLER'S REPORT

Office Use Only			
Inspected by _____			
Twp _____	Rge _____	Sec _____	
_____ 1/4	_____ 1/4	_____ 1/4	
Lat _____		Long _____	
☒ Air ☐ Flowing Artesian			

1. WELL TAG NO. D 28902 **RECEIVED**
 DRILLING PERMIT NO. 808640
 Other IDWR No. _____ **FEB 14 2004**

2. OWNER: Jim & Jola Forell IDWR/North
 Name _____
 Address 11616 Baldy Mtn Rd
 City Sandpoint State ID Zip 83864

3. LOCATION OF WELL by legal description:

Sketch map location must agree with written location.

4	5

Twp 57 - North ☒ or South ☐
 Rge 2 East ☐ or West ☒
 Sec 17 1/4 NW 1/4 SW 1/4
 Gov't Lot _____ County Bonner
 Lat _____ Long _____
 Address of Well Site Same
 City Sandpoint

Bk _____ 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/FILTER PACK			AMOUNT		METHOD
Material	From	To	Backfill	or Packing	
Bentonite	0	-20	4		overhaul
Granular					Temp Casing

Was drive shoe used? ☒ N Shoe Depth(s) 20'

Was drive shoe seal tested? ☒ N How? Air

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
6"	+1.5	-20	250	Steel	☒	☐	☒	☐
4"	-8	-445	160	PVC	☐	☒	☒	☐

Length of Headpipe _____ Length of Tailpipe _____

9. PERFORATIONS/SCREENS

Perforations _____ Method Saw cut
 Screens _____ Screen Type _____

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
-9	-444	48"	250	4"	PVC	☐	☒

10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

20 ft below ground Artesian pressure _____ lb.
 Depth flow encountered _____ ft. Describe access port or control devices Turtle cap

57N 2W 17

11. WELL TESTS:

☐ Pump ☐ Bailor

Yield gal/min	Drawdown	Pumping Level	Notes
Approx 15 GPM	425'	445'	2 Hrs

Water Temp. Cold Bottom hole temp Cold

Water Quality test or comments: No Comment

Depth first Water Encounter 8-150'

12. LITHOLOGIC LOG: (Describe repairs or abandonment)

Bore Dia	From	To	Remarks: Lithology, Water Quality & Temperature	Water
8"	0	20		
6"	20	445		
	0	1	Topsoil	X
	1	8	Sand	X
	8	15	Cobbles Gravel Sand	X
	15	18	Surface Water	
	15	18	Decomposed Granite/Silt	X
	18	127	D.G. Med.	X
	127	150	Salt & Pepper/Hard Granite	X
	150	151	Fracture Approx 2 GPM	X
	151	425	Salt & Pepper Granite	X
	425	445	Decomposed Granite	X
	445	?	Approx 15 GPM	
	445	?	Salt & Pepper Granite	X

208-263-5974

Mark Pitts
Robin Pitts

Serving
North Idaho
Over 20 Years



DRILLING • PUMPS • WATER TREATMENT
Complete Systems • From the Well To The House

435 Woodview Rd. • Sandpoint, ID 83864

Completed _____ Depth 445'
 Date Started 11-3-03 Completed 11/24/03

13. DRILLER'S CERTIFICATION

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

Company Name Sweetwater Drilling Inc Firm No 509

Firm Official Mark W. Pitts Date 11/24/03

and
 Driller or Operator _____ Date _____

(Sign once if Firm Official & Operator)

FORWARD WHITE COPY TO WATER RESOURCES