

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 95-9148

Exam Date: 8/20/2015

1. Current Owner: THE SAVED BC FAMILY TRUST
4073 E ERICKSON DR
COEUR D ALENE ID 83815
(208) 640-3233
2. Accompanied by: Marvin Erickson
Relationship to Permit Holder: Owner

3. SOURCE**TRIBUTARY**

GROUND WATER

B. OVERLAP REVIEW

1. Other water rights with the same place of use: 95-9196
2. Other water rights with the same point of diversion: 95-9196

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

GROUND WATER SE1/4SW1/4 Sec. 30, Twp 51N, Rge 03W, B.M. KOOTENAI County

Method of Determination: GPS and maps. POD location at 116° 45.295, 47° 43.874 (A0015471)

2.

PLACE OF USE: DOMESTIC

Twp Rge Sec	NE				NW				SW				SE				Totals
51N 03W 30	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	
													X		X	X	

Method of Determination:

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.

<u>Well or Diversion</u> <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</u> <u>Size</u>
D0022186	FRANKLIN	5			

*Code to correspond with No. on map and aerial photo

D. FLOW MEASUREMENTS

1.

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

2. Measurements:

E. FLOW CALCULATIONS

☐ Additional Computation Sheets Attached

Measured Method: UNABLE TO PERFORM FLOW MEASUREMENT. MEASUREMENT OF DIVERSION RATE COVERED UNDER IDAPA RULES 37.03.02.035.01.r. THEORETICAL PUMPING EQUATION ESTIMATES

$(5 \text{ HP})(8.8)(0.8) / 393 + (40 \times 2.3087) = 0.07 \text{ CFS}$. ASSUMED PUMP SET AT 393 FEET AND SYSTEM PRESSURE AT 40 PSI.

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{IR} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) =$$

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

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

2. Volume Calculations for Other Uses: DOMESTIC USE FOR 9 HOMES WITH IRRIGATION UP TO 1/2 ACRE PER HOME = $9 \times 1.2 \text{ AF} = 10.8 \text{ AF}$

G. NARRATIVE/REMARKS/COMMENTS

FIELD EXAM SHOWED APPLICANT HAD WELL WITH 5 HP PUMP. APPLICANT WOULD PUMP FROM WELL INTO STORAGE TANK NEAR WELL. FROM THAT STORAGE TANK WATER WOULD BE PUMPED UP TO STORAGE TANK ON HILL TO BE GRAVITY FED TO HOMES. APPLICANT HAD 1 HOME BUILT AND HAD OTHER 8 HOMES STUBBED IN. LICENSE WILL BE MODIFIED TO SHOW DOMESTIC USE FOR 9 HOMES WITH IRRIGATION UP TO 1/2 ACRE PER HOME. THEORETICAL PUMPING EQUATION ESTIMATES FLOW RATE FROM WELL AT 32.6 GPM OR 0.07 CFS. LICENSE WILL BE ISSUED FOR 0.07 CFS WITH AN ANNUAL VOLUME OF 10.8 AF.

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	0.070 CFS	10.80 AF
<u>Totals:</u>		0.070 CFS	10.80 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 ☐ Other

I. AUTHENTICATION

Field Examiner's Name Adam F. Franklin Date 2-3-2016
 Reviewer Keith E. Frankham Date 2/18/2016

THEORETICAL PUMPING EQUATION FOR WATER RIGHT 95-9148

PUMP EQUATIONS WATER RIGHT No. 95-9148						
		HP	H in feet	Efficiency as a decimal	Pumping lift in feet	System pressure in PSI
Q =	$\frac{HP \cdot 8.8 \cdot \text{Eff}}{H}$	5	485.51 7	0.8	393	40
Q = 0.073 cfs 32.6 gpm						

ASSUMED THAT PUMP WAS SET AT 393 FEET AND SYSTEM PRESSURE AT 40 PSI.

RECEIVED

Form 23
11/97 APR 10 2002

IDAHO DEPARTMENT OF WATER RESOURCES

WELL DRILLER'S REPORT

IDWR/North

1. WELL TAG NO. D 0022186

DRILLING PERMIT NO. 775908

Other IDWR No.

2. OWNER:

Name Marvin Erickson

Address 4095 E. Erickson Drive

City Coeur d'Alene State ID Zip 83815

3. LOCATION OF WELL by legal description:

Sketch map location must agree with written location.

Sketch map location must agree with written location.

W Twp. 51 North ☒ or South ☐
Rge. 3 East ☐ or West ☒
Sec. 30 1/4 SW 1/4 SE 1/4
Gov't Lot County Kootenai
Lat. : : Long. : :
Address of Well Site E. end of Hanley

N of intersect 17th & Hanley City Dalton

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

SEA/FILTER PACK			AMOUNT		METHOD
Material	From	To	Sacks	Pounds	
Bentonite	0	30	16	sacks	overbore

Was drive shoe used? ☒ Y ☐ N Shoe Depth(s) 162

Was drive shoe seal tested? ☒ Y ☐ N How? driven into rock
no clay returns

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
6"	+2	162	250	Steel	☒	☐	☒	☐
4"	122	402	160	PVC	☐	☒	☐	☐

Length of Headpipe Length of Tailpipe

9. PERFORATIONS/SCREENS

☒ Perforations Method saw cut 1/8" x 6"

Screens Screen Type

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
382	402		48		PVC	☐	☒

10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

157' ft. below ground Artesian pressure lb.

Depth flow encountered ft. Describe access port or control devices:

51A12, 1 3.7

Office Use Only

Inspected by

Twp Rge Sec

1/4 1/4 1/4

Lat. : : Long. : :

☒ Air ☐ Flowing Artesian

11. WELL TESTS:

☐ Pump ☐ Bailor

Yield gal/min	Drawdown	Pumping Level	Time
25	air developed	-	4 hrs

Water Temp.

Bottom hole temp.

Water Quality test or comments:

Depth first Water Encounter 178

12. LITHOLOGIC LOG: (Describe repairs or abandonment)

Bore Dia	From	To	Remarks: Lithology, Water Quality & Temperature	Y	N
12"	0	1	Topsoil, gravel		
	1	10	Gravel, sand, silt		
	10	19	Gravel, cobbles		
	19	26	Sand, coarse		
8"	26	32	Gravel, coarse		
	32	61	Gravel, cobbles		
	61	62	Boulder, granite		
	62	99	Sand, gravel		
	99	126	Gravel, medium		
	126	158	Sand, gravel		
	158	162	Clay tan, wet		
6"	162	178	Shale, broken 15 gpm	x	
	178	210	Shale, brown, med to soft	x	
	210	212	Clay, silt, tan, soft		
	212	236	Shale, grey		
	236	259	Shale, dark green		
	259	266	Shale, drk green, soft		
	266	270	Shale, tan		
	270	283	Shale, dark green		
	283	289	Shale, very broken w/tan silt		
			10 gpm	x	
	289	310	Shale, black, very hard		
	310	362	Shale, black & grey, medium	x	
	362	380	Shale, soft, grey, black	x	
	380	394	Shale, light grey		
	394	403	Shale, dark grey medium		

Completed Depth 403' (Measurable)
Date: Started 03/29/02 Completed 04/02/02

13. DRILLER'S CERTIFICATION

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

Company Name McCarty Drilling & Pump Inc Firm No. 586

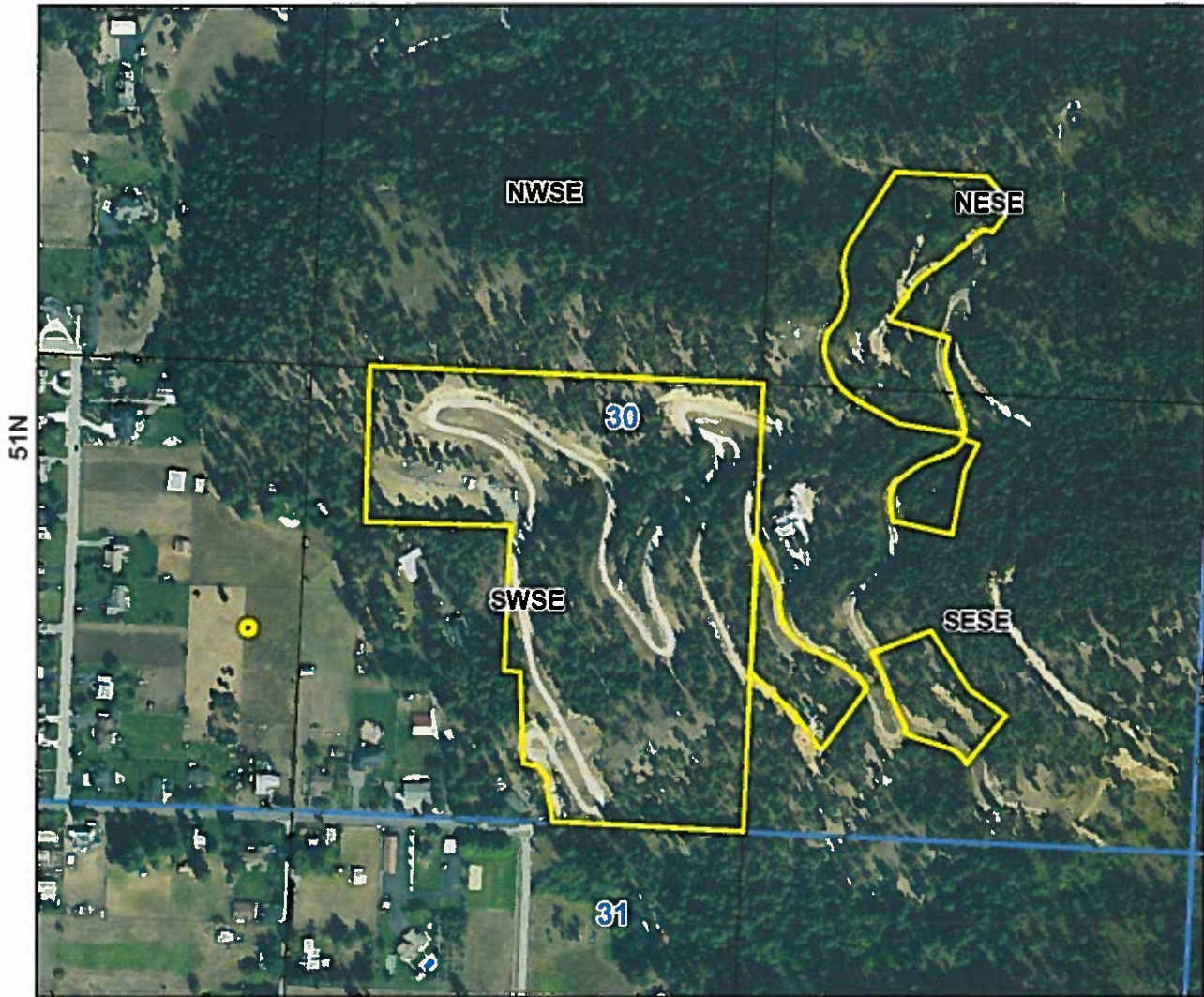
Firm Official Date 4-8-02

and Driller or Operator Date

(Sign once if Firm Official & Operator)

State of Idaho
Department of Water Resources
Water Right License
95-9148

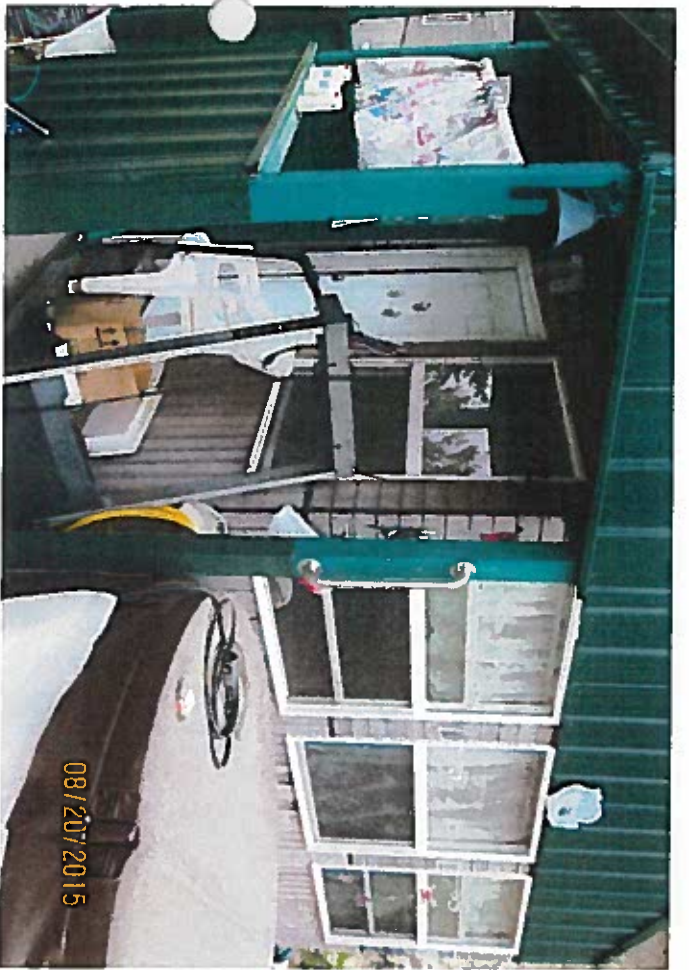
03W



0 0.05 0.1 0.2 Miles

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





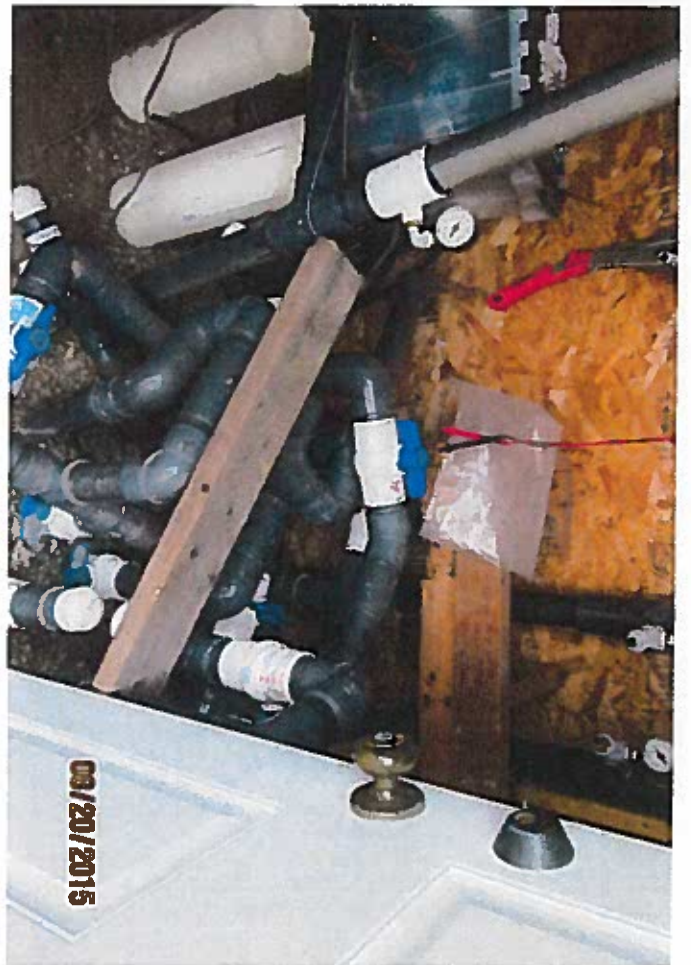
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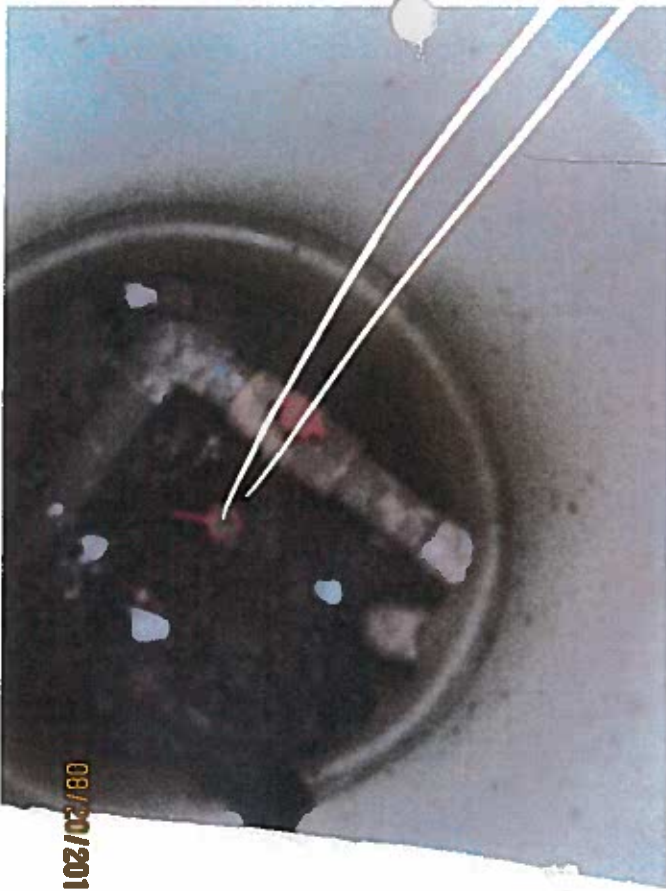
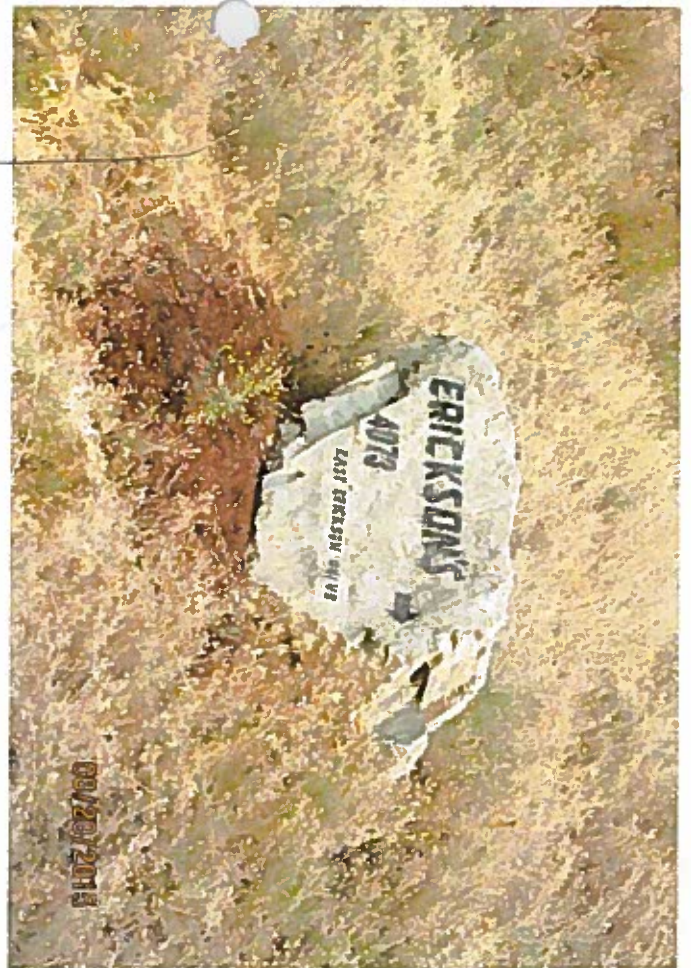
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95-9148



95-9145



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