

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 95-9196

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: 95-9148
2. Other water rights with the same point of diversion: 95-9148

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

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

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

Method of Determination: GPS and maps. POD location at 47° 43.829, 116° 45.283 (A0015472)
47° 43.874, 116° 45.295 (A0015471)

2.

PLACE OF USE: DOMESTIC

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

PLACE OF USE: FIRE PROTECTION

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

Method of Determination: GPS and maps.

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 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>
D0022186	FRANKLIN	5			
D0028131	FRANKLIN	5			

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

D. FLOW MEASUREMENTS

1.

<u>Measurement 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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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

$(5 \text{ HP})(8.8)(0.8) / 393 + (40 \times 2.3087) = 0.073 \text{ CFS}$ WELL D0022186

$(5 \text{ HP})(8.8)(0.8) / 375 + (40 \times 2.3087) = 0.075 \text{ CFS}$ WELL D0028131

ASSUMED PUMP LOCATIONS AT 393 FEET AND 375 FEET AND 40 PSI. WHEN COMBINED WELLS CAN PRODUCE 0.15 CFS.

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

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) =$$

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

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} =$$

2. Volume Calculations for Other Uses: DOMESTIC USE FOR 6 HOMES WITH IRRIGATION UP TO 1/2 ACRE

$$1.2 \text{ AF} \times 6 \text{ HOMES} = 7.2 \text{ AF}$$

G. NARRATIVE/REMARKS/COMMENTS

FIELD EXAM SHOWED THAT THIS WATER RIGHT IS OVERLAPPED WITH RIGHT 95-9148. IDWR IS GOING TO LICENSE 95-9148 FIRST AND THEN CONDITION THIS RIGHT WITH OVERLAP CONDITIONS. FIELD EXAM SHOWED THIS RIGHT WAS USING SAME WELL AS OTHER RIGHT 95-9148 AND ALSO INCLUDED A 2ND WELL. BOTH WELLS HAD 5 HP PUMPS IN THEM AND EXAMINER WAS UNABLE TO PERFORM FLOW MEASUREMENT. THEORETICAL PUMPING EQUATION ESTIMATES FLOW RATES AT 32.6 GPM AND 33.8 GPM OR WHEN COMBINED IS 0.15 CFS. THIS PERMIT WAS ISSUED FOR 9 HOMES AND WAS DESCRIBED AS BEING LOCATED IN THE NESE AND SESE. THERE IS ONLY 1 HOME BUILT WITH 5 OTHER LOTS STUBBED IN THOSE 2 QQ. THESE 6 LOTS ARE COVERED BY RIGHT 95-9148 SO THEY WILL HAVE OVERLAP CONDITION. LICENSE WILL REMOVE IRRIGATION AND GIVE UP TO 1/2 ACRE OF IRRIGATION PER HOME UNDER DOMESTIC USE. FIRE PROTECTION WILL BE ISSUED FOR 0.15 CFS AND DOMESTIC WILL BE ISSUED FOR 0.12 CFS WITH ANNUAL VOLUME OF 7.2 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	0.120 CFS	7.20 AF
FIRE PROTECTION	01/01 to 12/31	0.150 CFS	
	<u>Totals:</u>	0.150 CFS	7.20 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 ☐ Other

I. AUTHENTICATION

Field Examiner's Name Adam Friedman Date 2-3-2016
 Reviewer Keith E. Frankel Date 2/12/2016

THEORETICAL PUMPING EQUATION FOR WATER RIGHT 95-9196

WELL D0022186

PUMP EQUATIONS WATER RIGHT No. 95-9196						
		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.

WELL D0028131

PUMP EQUATIONS WATER RIGHT No. 95-9196						
		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	467.51 7	0.8	375	40
Q = 0.075 cfs 33.8 gpm						

ASSUMED THAT PUMP WAS SET AT 375 FEET AND SYSTEM PRESSURE AT 40 PSI.

IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

1. WELL TAG NO. D 0028131 RECEIVED
DRILLING PERMIT NO. 273015
Water Right or Injection Well No. MAR

2. OWNER:
Name Marvin Erickson DWR North
Address 4095 E. Erickson Dr.
City Coeur d'Alene State ID Zip 83814

3. LOCATION OF WELL by legal description:

You must provide address or Lot, Blk, Sub. or Directions to well.

Twp. 51 North ☒ or South ☐
Rge. 3 East ☐ or West ☒
Sec. 30 1/4 SW 1/4 SW 1/4
Gov't Lot _____ County Kootenai
Lat: _____ Long: _____

Address of Well Site E. end of Hanley, N. of
17th & Hanley Intersection, 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

Seal Material	From	To	Weight / Volume	Seal Placement Method
Bentonite	0	25	200#	dry granular

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

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
6"	+2	243	250	Steel	☒	☐	☒	☐
4"	85	365	160	PVC	☐	☒	☒	☐
4"	365	385	200	PVC	☐	☒	☒	☐

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

9. PERFORATIONS/SCREENS PACKER TYPE

Perforation Method saw cut 6" slot
Screen Type & Method of Installation _____

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
365	385	1/8	60	4"	PVC	☐	☒

10. FILTER PACK

Filter Material	From	To	Weight / Volume	Placement Method

11. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

250 ft. below ground Artesian pressure _____ lb.
Depth flow encountered _____ ft. Describe access port or control devices: _____

De: _____ of Water Resources
APPLICANTS
Inspected by _____
Exhibit 1 Two Rge. _____ Sec. _____
Date Admitted 9-28-04
Lat. _____ Long. _____

12. WELL TESTS:

☐ Pump ☐ Bailor ☒ Air ☐ Flowing Artesian

Yield gal./min.	Drawdown	Pumping Level	Time
60-70			4 hrs.

Water Temp. _____ Bottom hole temp. _____

Water Quality test or comments: water very cloudy
Depth first Water Encounter 25'

13. LITHOLOGIC LOG: (Describe repairs or abandonment)

Bore Dis.	From	To	Remarks: Lithology, Water Quality & Temperature	Y
8	0	3	Sand, topsoil	
	3	11	Gravel, sand, silt	
	11	26	Gravel, Medium	
	26	31	Gravel, sand	
	31	58	Gravel, coarse	
	58	73	Sand, medium	
	73	116	Gravel, coarse	
	116	138	Cobbles	
	138	139	Boulder	
	139	166	Gravel, coarse, cobbles	
	166	190	Sand, medium to fine	
	190	232	Gravel, silt, sand	
	232	240	Shale, broken, silt, tan	
	240	243	Shale, hard, grey	
6	243	268	Shale, medium, grey/rose	x
	268	286	Shale, light grey, medium	
	286	289	Shale, white	
	289	296	Shale, grey, broken 20 gpm	x
	296	316	Shale, grey, rose	
	316	321	Shale, rose, grey, broken	x
	321	328	Shale, brown	
	328	334	Shale, grey, broken	x
	334	355	Shale, white, grey	
	355	361	Shale, grey, broken 20 gpm	x
	361	368	Shale, grey, rose, hard	
	368	371	Shale, grey, broken	x
	371	378	Shale, brown, broken	x
	378	385	Shale, grey, rose	

Completed Depth 385' (Measure)

Date: Started 02/21/03 Completed 02/23/03

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 McCarty Drilling & Pump Inc Firm No. 586

Principal Driller Burt McCarty Date 3-3-03

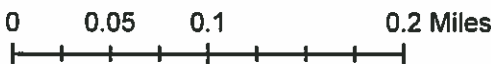
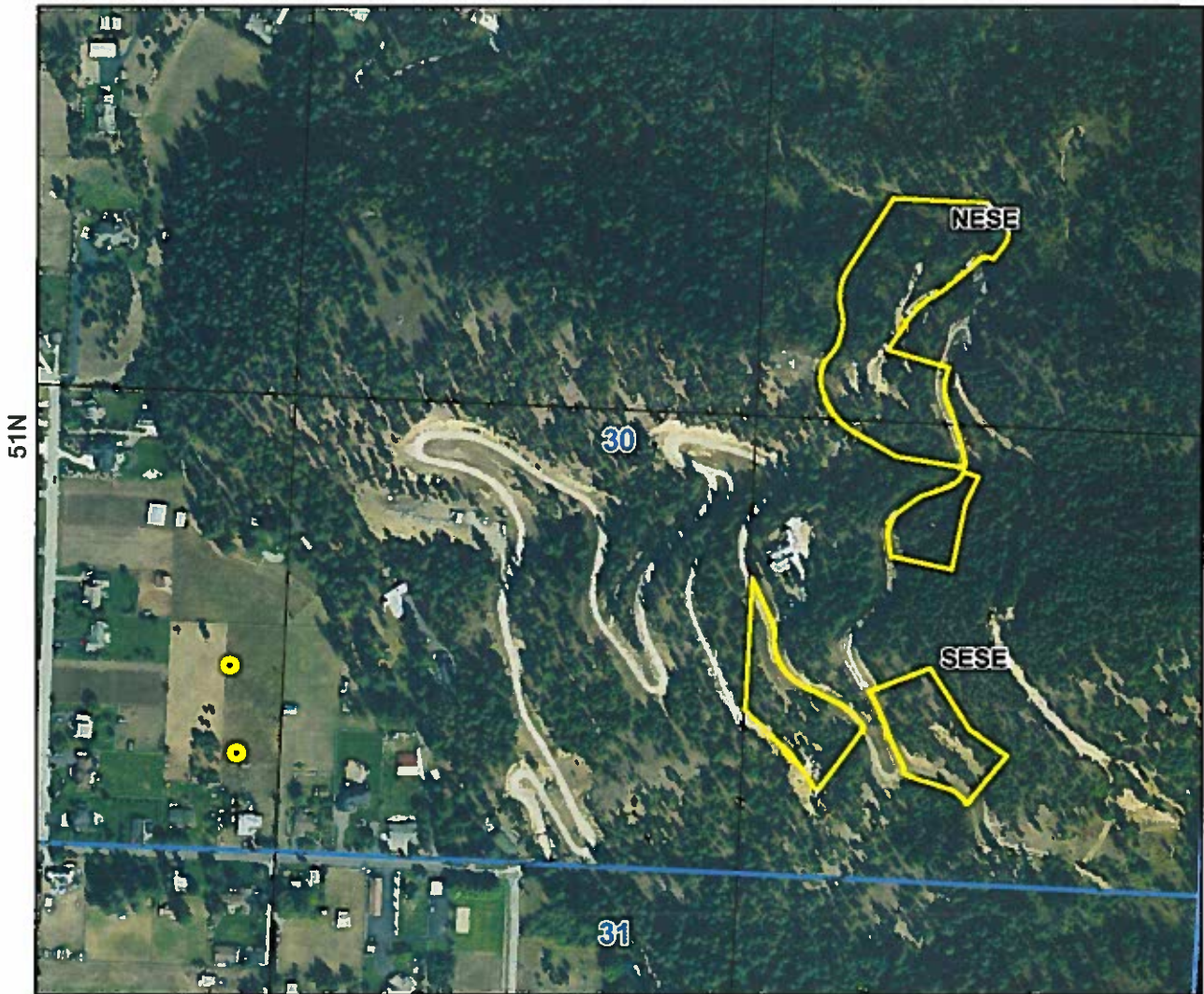
and Driller or Operator II _____ Date _____

Operator I _____ Date _____

Principal Driller and Rig Operator Required.

State of Idaho
Department of Water Resources
Water Right License
95-9196

03W



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





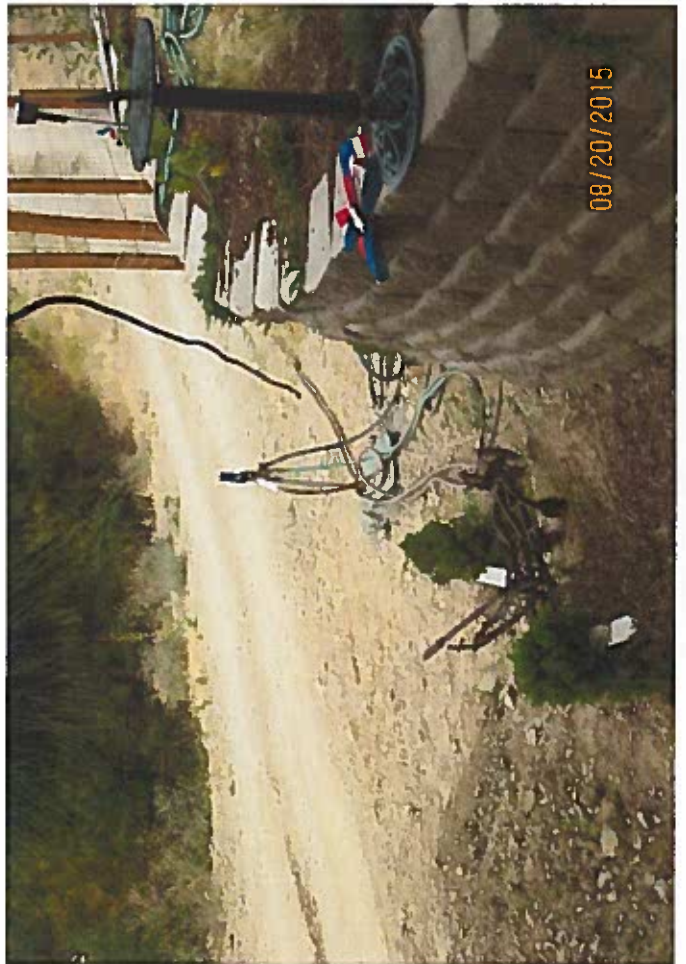
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