

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
IN-OFFICE REVIEW/BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATIONPermit No: 95-15576

Exam Date: 10/28/2016

1. Does this qualify for an in-office field exam (IDAPA 035.02.r)? X Y N
- a. Irrigation of 5 acres or less
 - b. Storage of up to 14.6 AF for stockwater purposes only
 - c. Any use other than irrigation or storage, if the combined diversion rate is 0.24 cfs or less
 - d. Other < >

2. Current Owner: Name: Janice Shano
Owner of Record Correct? X Y N
Address of Record Correct? Y N
If No: Address

Tax lot data shows Janice M. Shano as the owner of the property.

3. Beneficial Use Fees have been paid: X Y N Receipt No: C102634

4. **SOURCE** **TRIBUTARY**

Ground water

Method of Determination: Well Driller's Report, GIS and Taxlot DataChange in Source: Y X N**B. OVERLAP REVIEW**

1. Other water rights with the same place of use: NO Overlap

Water Right No.	Source	Purpose of Use	Basis
NONE			

Comments: Water right 95-8902 owned by Bill Richards is the NENE Lot 1 of Section 6, but it appears as though Mr. Richards owns the two parcels south of the permit holder's property. The addresses appear to have been changed at some point, but I am confident that the parcels with tax #'s 13563 and 13564 are the lots associated with water right 95-8902. The permit is on the parcels due north of those to parcels.

2. Other water rights with the same point of diversion: NO Overlap

Water Right No.	Source	Purpose of Use	Basis
NONE			

Comments: There are no other rights in this 40 acre tract.

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

Source	Govt. Lot	¼	¼	¼	Sec.	Twp.	Rge.		County
Well			SE	SE	31	49N	4W	B.M.	KOOTENAI
								B.M.	
								B.M.	

Method of Determination: GIS and Tax Parcel data.Change in POD? X N Amendment Required? X N**2. PLACE OF USE:** 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	
49N	4W	6	1 Lt 3																1
49N	4W	31																1.1	1.1
Total Acres =																			2.1

Method of Determination: GIS and Tax Parcel DataChange in POU? X N Amendment Required? X N Delivery System Diagram Attached (required). Indicate all major components and distances between components.

Indicate weir size/pipe as applicable.

 X Aerial Photo Attached (required for irrigation of 10+ acres). Photo of Diversion and System Attached

4. Well or Diversion Identification No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
Well Pump	Unknown			Unknown	

*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
NONE						

2. Measurements: No measurement is required for an in-house exam.

E. FLOW CALCULATIONS

___ Additional Computation Sheets Attached

Measured Method:

There is no mention in the permit file of the size well pump used for this system. Therefore, we must go with the Department's standards for the diversion rate and volume. IDAPA rule 37.03.02.035.03.b allows a diversion rate per acre of 0.03 cfs, so that will be used to determine the diversion rate for this property.

Per IDAPA rule 37.03.02.035.03.b = 0.03 cfs X 2.1 acres = 0.06 cfs
Permit allowed = 012 cfs

I am recommending 0.06 cfs Per IDAPA rule 37.03.02.035.03.b limitation.

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 2.1 \text{ ac} \times 3 = 6.3 \text{ af}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.06 \text{ cfs} \times 246 \text{ days} \times 1.9835 = 29.3 \text{ af}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 6.3 \text{ af}$$

2. Volume Calculations for Other Uses:

G. PURPOSE OF USE

Irrigation ___X___Y ___N___ # Stock _____ Domestic # of Homes ___1___

Other: < >

Change in Purpose of Use? ___Y___N

Method of Determination: Taxlot data and conversations with owner.

If Yes: From Use _____ To Use _____ Amount _____ CFS _____ AFA _____

H. NARRATIVE/REMARKS/COMMENTS

This permit is qualifies for an in-house exam. The permit lists 4 acres, but is clear from the aerial photos attached to this exam that the permit holder has only developed 2.1 acres. There is a small piece of land that was cleared west of the road, but it doesn't look like they have planted any grasses or made any further attempt to develop that property. The area in question is also on a hillside that falls off rather steeply approximately 120 feet in elevation in a span of 440 feet creating a 27% slope. It would be really difficult to avoid washing off the top soil on that steep of slope. Therefore, I am very confident that the permit holder is only irrigating the 2.1 acres.

The only conditions that should be carried forward to licensing are conditions 1 (004) and 3 (R66). The only reason that I am carrying forward condition 1 to licensing is that it appears as though the well mainline crosses under the county road, so to avoid any issues later, I feel it is important to leave this condition on the license.

Have conditions of permit approval been met? ___X___ Yes ___ No

I. RECOMMENDATIONS**1. Recommended Amounts**

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
Irrigation	03/15 to 11/15	0.06 CFS	6.3 AF
<u>Totals:</u>		0.06 CFS	6.3 AF

2. Recommended Amendments

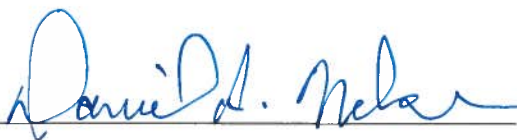
☐ Change P.D. as reflected above ☐ Add P.D. as reflected above ☐ None

☐ Change P.U. as reflected above ☐ Add P.U. as reflected above ☐ None

Other: < >

J. AUTHENTICATION – DANIEL A. NELSON – STAFF HYDROLOGIST

Field Examiner's Name



Date

10-22-14

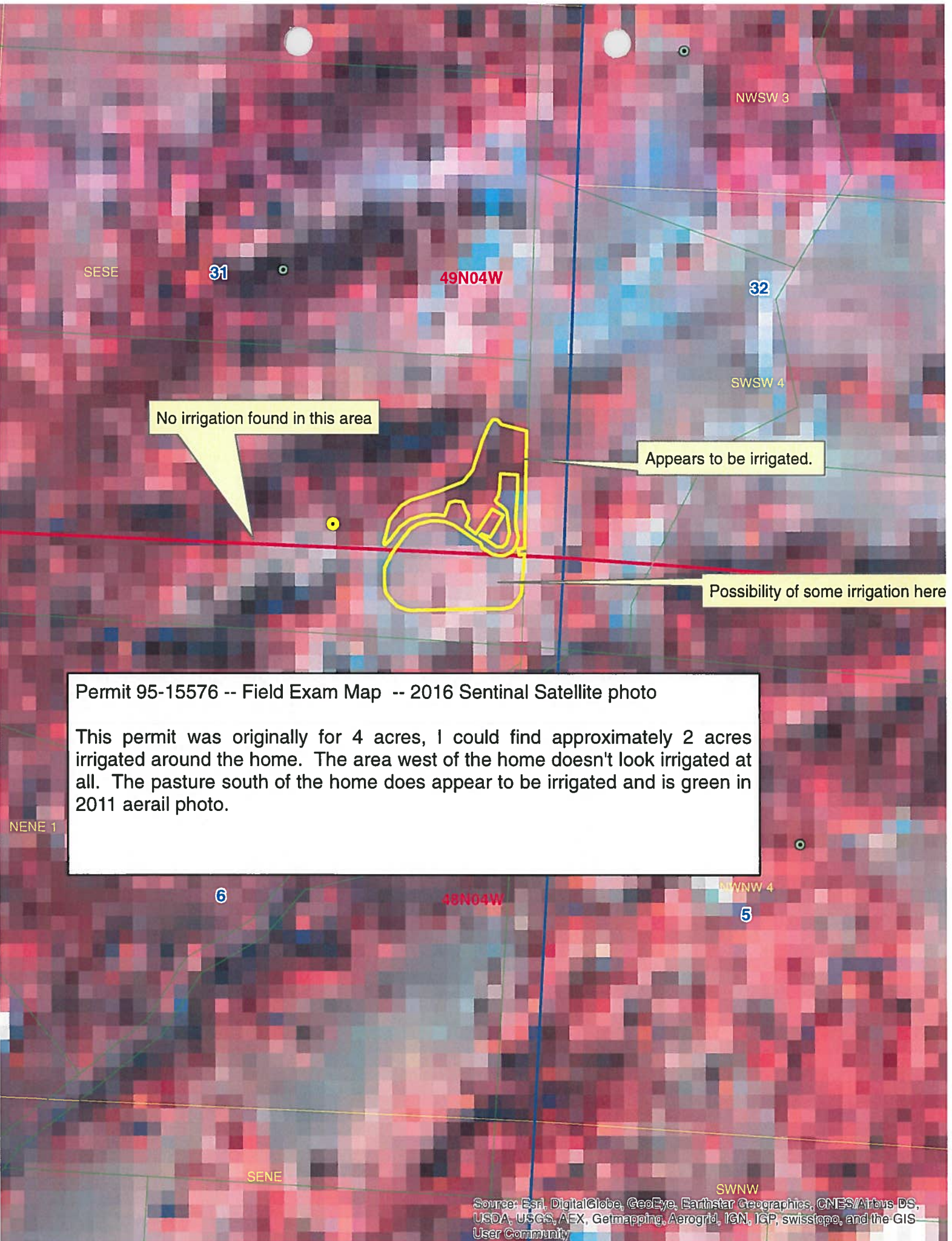
Reviewer

Date



Permit 95-15576 -- Field Exam Map -- 2011 Eseri Map

This permit was originally for 4 acres, I could find approximately 2 acres irrigated around the home. The area west of the home doesn't look irrigated at all. The pasture south of the home does appear to be irrigated and is green in 2011 aerial photo.



NWSW 3

SESE

31

49N04W

32

SWSW 4

No irrigation found in this area

Appears to be irrigated.

Possibility of some irrigation here

Permit 95-15576 -- Field Exam Map -- 2016 Sentinel Satellite photo

This permit was originally for 4 acres, I could find approximately 2 acres irrigated around the home. The area west of the home doesn't look irrigated at all. The pasture south of the home does appear to be irrigated and is green in 2011 aerial photo.

NENE 1

6

48N04W

NWNW 4

5

SENE

SWNW

Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

SESE

31

NWSW 3

49N04W

32

SWSW 4

Point of diversion

Place of use found irrigated.

Permit 95-15576 -- Field Exam Map -- 2015 Aerial Photo

This permit was originally for 4 acres, I could find approximately 2 acres irrigated around the home. The area west of the home doesn't look irrigated at all. The pasture south of the home does appear to be irrigated and is green in 2011 aerial photo.

NENE 1

6

48N04W

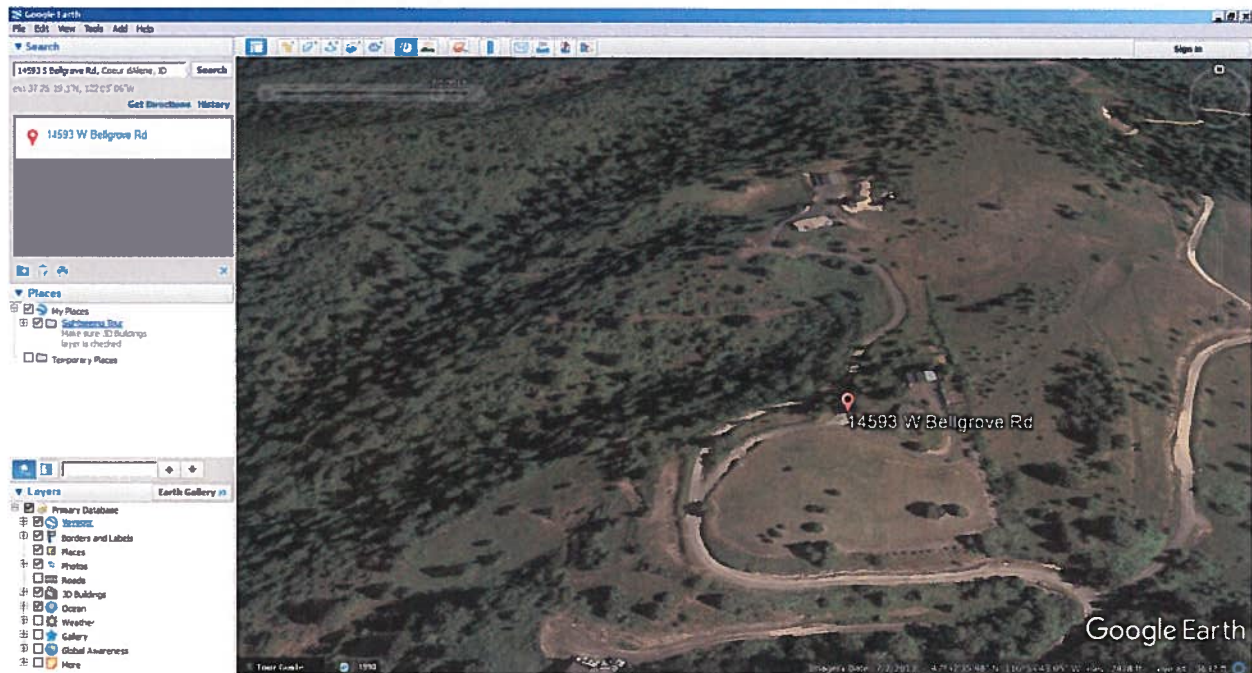
NWNW 4

5

SENE

SWNW

Permit 95-15576 – Google Earth Map



In the above 2013 Google map, you can see that the pasture was planted but the area to the west of the pasture on the other side of the road was not planted. The 2015 and 2016 Google Earth maps show a similar scene, but this photo shows the rows in the pasture that were planted. The photo below is a close-up of the pasture.

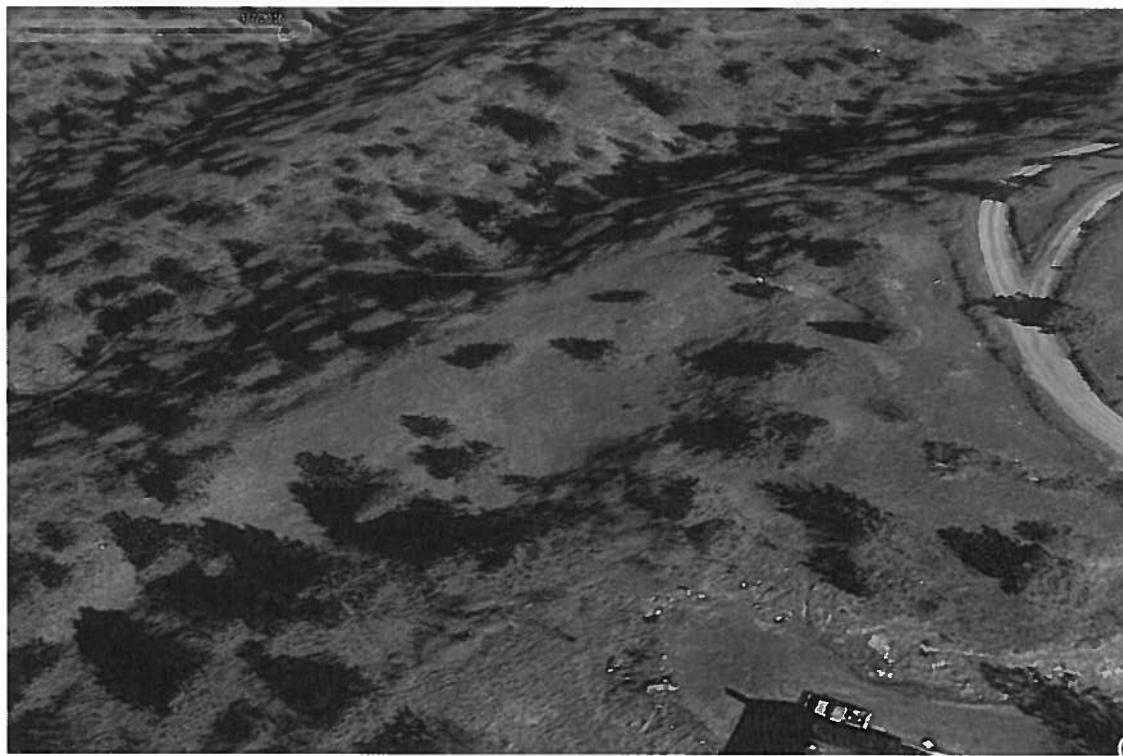


Permit 95-15576 – Google Earth Map

The following two photos show the Google Earth maps of the area west of the road that is supposed to be irrigated. You can see that there is no sign of any cultivation in 2013 or 2016 aerial photos.



2013 Google Earth Map



2016 Google Earth Map

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 0035318
DRILLING PERMIT NO. 824765
Water Right or Injection Well No. _____

2. OWNER:
Name Janice McDonald
Address P.O. Box 2782
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. 49 North ☒ or South ☐
Rge. 4 East ☐ or West ☒
Sec. 31 1/4 S 1/4 SE 1/4
Gov't Lot _____ County Kootenai 10 acres 40 acres 160 acres

Lat: _____ Long: _____
Address of Well Site Belgrove Rd
City Rockford Bay
(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	18	150lbs	overbore

Was drive shoe used? ☒ Y ☐ N Shoe Depth(s) 18 1/2
Was drive shoe seal tested? ☐ Y ☒ N How? _____

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
6	+1	18 1/2	250	steel	☒	☐	☒	☐
4	-4	454	160	pvc	☐	☒	☒	☐

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

9. PERFORATIONS/SCREENS PACKER TYPE

Perforation Method drill
Screen Type & Method of Installation _____

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
414	454	1/4	200	4	pvc	☐	☒

10. FILTER PACK

Filter Material	From	To	Weight / Volume	Placement Method

11. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

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

12. WELL TESTS:

☐ Pump ☐ Bailer ☒ Air ☐ Flowing Artesian

Yield gal./min.	Drawdown	Pumping Level	Time
Approx 75		440-454	2hr

Water Temp. cold Bottom hole temp. _____

Water Quality test or comments: clear

Depth first Water Encounter 120

13. LITHOLOGIC LOG: (Describe repairs or abandonment)

Bore Dia.	From	To	Remarks: Lithology, Water Quality & Temperature	Water
				Y N
8	0	6	brown clay	
	6	18 1/2	salt&pepper granite	
6	18 1/2	40	firm salt&pepper granite	
	40	41	decomposed granite	
	41	90	firm salt&pepper granite	
	90	120	softer salt&pepper granite	
	120	123	decomposed granite (1 1/2 gpm)	x
	123	225	firm salt&pepper granite	
	225	240	softer salt&pepper	
	240	330	firm salt&pepper	
	330	340	soft salt&pepper, some green (1/2 gpm)	x
	340	390	firm salt&pepper granite	
	390	391	soft salt&pepper granite	
	391	410	firm salt&pepper granite	
	410	449	soft salt&pepper green granite	
	449	454	firm salt&pepper granite	x

RECEIVED
OCT 15 2004
IDWR/North

Completed Depth 454ft (Measurable)

Date: Started 9/22 Completed 9/24/04

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 Bronson Water Wells Firm No. 360

Principal Driller Clint Bronson Date 10/4/04

Driller or Operator II _____ Date _____

Operator I _____ Date _____

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

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