

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 95-11975
Exam Date: 07/16/2015

1. Current Owner:
DAVID HOLLOWAY 5293 POLELINE AVE POST FALLS ID 83854
AND / OR
CHRIS HOLLOWAY 5293 POLELINE AVE POST FALLS ID 83854
2. Accompanied by: DAVID HOLLOWAY
Phone No: (208)661.0588
Address: 5293 POLELINE AVE POST FALLS ID 83854
Relationship to permit Holder: Co-Applicant

3. SOURCE:
GROUND WATER

Method of Determination: Drillers Report D0017030

B. OVERLAP REVIEW

1. Other water rights with the same place of use: YES Overlap

Water Right No.	Source	Purpose of Use	Basis
95-7698, 95-7528, 95-8477, 95-9009, 95-15533, 95-4088	Ground Water	Municipal	Decreed in CSRBA

Comments: The Places Of Use (POU) for Ross Point Water District municipal Water Rights overlap the POU for 95-11975. These Rights were decreed during the Coeur d' Alene Spokane River Basin Adjudication (CSRBA) and are not currently used within the 95-11975 POU.

2. Other water rights with the same point-of-diversion: YES Overlap

Water Right No.	Source	Purpose of Use	Basis
95-11966	Ground Water	Domestic	Decreed in CSRBA

Comments: The Applicant's decreed Right 95-11966 includes .5 acres irrigation under Domestic use.

C. DIVERSION AND DELIVERY SYSTEM: A drilled eight inch diameter well discharges to a three inch diameter main line with connection points for a hose and reel unit and to pressure tanks for underground lawn sprinklers.

1. LOCATION OF POINT(S) OF DIVERSION:

GROUND WATER

SE¼, SE¼, Sec. 30, Twp 51N, Rge 04W, B.M., KOOTENAI County

Method of Determination: Maps' Post Falls' U.S. Geological Survey 7.5 Quadrangle (Topographic 1981), ArcMap™ Geographic Information System (GIS) software, Garmin GPS receiver

Point of Diversion (D0017030 well head.) GPS Coordinates -116 Degrees, 52' 34.3 West Longitude, 47 Degrees, 43' 50.8 North Latitude (eight satellites visible).

Method of Determination:

PLACE OF USE: IRRIGATION

Twp	Rng	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
51N	04W	30																1.4	1.4

Total Acres: 1.4

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.

Well or Diversion ID No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
D0017030	unknown	unknown	unknown	unknown	Discharge to 3" main line & two pressure tanks enroute to pop-up underground sprinkler line.

D. FLOW MEASUREMENTS (none: See Theoretical Measurements (Pump Equations) below)

1.

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date
watch	wrist	Remington	unknown	unknown	-	Not applicable
bucket	-	unknown	unknown	Not applicable	5 gallon	Not applicable

2. Measurements:

E. FLOW CALCULATIONS

Measured Method:

		PUMP	EQUATIONS	WATER RIGHT	95-11975	8" Well	D0017030
		HP	H in feet	Efficiency as a decimal	Pumping lift in feet	System pressure in PSI	
Q =	HP*8.8*Ef f/H	7.5	340.517	0.85	248	40	
Q=		0.165	CFS	74.1	GPM		

F. VOLUME CALCULATIONS

1. Volume Calculations for irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = (1.4 \text{ Acres}) \times (3.0 \text{ AF per Acre}) = 4.2 \text{ AF}$$

$$V_{D.R.} = [\text{Diversion Rate (CFS)} \times (\text{Days in Irrigation season}) \times 1.9835] = .04 \text{ CFS} \times 246 \times 1.9835 = 19.5 \text{ AF}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 4.2 \text{ AF}$$

2. Volume Calculations for Other Uses: (NONE - NOT APPLICABLE)

G. NARRATIVE/REMARKS/COMMENTS.

Exam conducted July 16, 2015 with David Holloway.

Overlap. Municipal Water Rights held by Ross Point Water District overlap the 95-11975 Irrigation Place of Use. None of the District Water Rights were being used on the 95-11975 property on the date of the Exam. The 0.5 acre of Irrigation allowed under the Domestic portion of the Applicant's decreed Water Right 95-11966 was being used and overlaps a portion of the Permit 95-11975 Place of Use.

The Exam showed that a total of 1.4 acres is irrigated using water from well D0017030 with water diverted for 1.4 acres under Water Right 95-11975. Water from the 263 foot deep, eight inch diameter well, (Tag D0017030) is passed to a three inch diameter Irrigation main line and two pressure tanks in an outbuilding. Water from the pressure tanks enters an underground line that is used to supply pop up sprinklers, and a frost-free spigot, on lawn areas of the property adjoining Pole Line Avenue and around the home. The area irrigated by the pop-up type sprinklers, seen in operation during the Exam, exceeds the 0.5 acres allowed for Domestic use under water Right 95-11966. Right 95-11966 also uses well D0017030.

The 95-11975 water system was not equipped with a flowmeter on the date of the Exam. The configuration of the buried water lines for pop up sprinklers and the three-inch main line does not allow for accurate measurement of flow rates with a portable flow meter.

Review of photographs taken during the Field Exam, and ArcMap™ aerial images taken during the development period (Permit 95-11975 issued 4/26/2010- Proof of Beneficial Use received 4/6/2012), show that only 1.4 acres of the permitted 9.0 acres were under irrigation.

A three inch diameter irrigation main line running northward, from the well, has connection points for an Italian made hose and reel unit equipped with 280 feet of hose on the reel and a separate hose connecting to the main line. This equipment was not operating during the Field Exam. Fittings and attachments for the main line, hose and reel unit, and small diameter garden hoses are stored in a bin in an outbuilding.

Details concerning the performance characteristics of the hose and reel unit were not available during the Field Exam. The unit did not have a performance curve or chart / data plate that was affixed to the outside of the hose and reel. A copy of the manufacturer's Internet information on a similar unit is attached.

Review of 95-11975 Permit conditions indicates that Condition 26A is not required for licensing because the Applicants have completed the well and placed it into service. Condition F06 should be added to the License because of the well shared with Right 95-11966. The remainder of the Permit conditions,

including R66 which limits flow rate to .03 CFS per acre, should remain because remains subject to requirements for the Rathdrum Prairie Ground Water Management Area (RPGWMA) (conditions 174, and 01R.). RPGWMA Condition 175 should not be added because it was not on the Permit.

The CFS rate for the Irrigation beneficial use is restricted by the irrigated area to 0.04 CFS. The Permit 95-11975, and Statement of Completion show 0.18 CFS, however, the Field Exam's lower irrigated acreage (1.4 acres vs. 9.0 acres shown on Permit & Statement of Completion) and theoretical calculation indicate that a flow rate of 0.04 CFS is warranted for licensing. **Recommended Annual Volume for Irrigation is 4.2 AF** (1.4 AC. X. 3.0 AF = 4.2 AF). **Recommended CFS for Irrigation (restricted by irrigated area) is 0.04 CFS.**

Have conditions of permit approval been met? ☒ Yes ☐ No

H. RECOMMENDATIONS

1. Recommended Amounts

<u>Beneficial Use</u>	<u>Period of Use</u>	<u>Rate of Diversion</u>	<u>Annual Volume</u>
IRRIGATION	03/15 to 11/15	0.04CFS	4.2 AF

Totals: 0.04 CFS 4.2 AF

2. Recommended Amendments

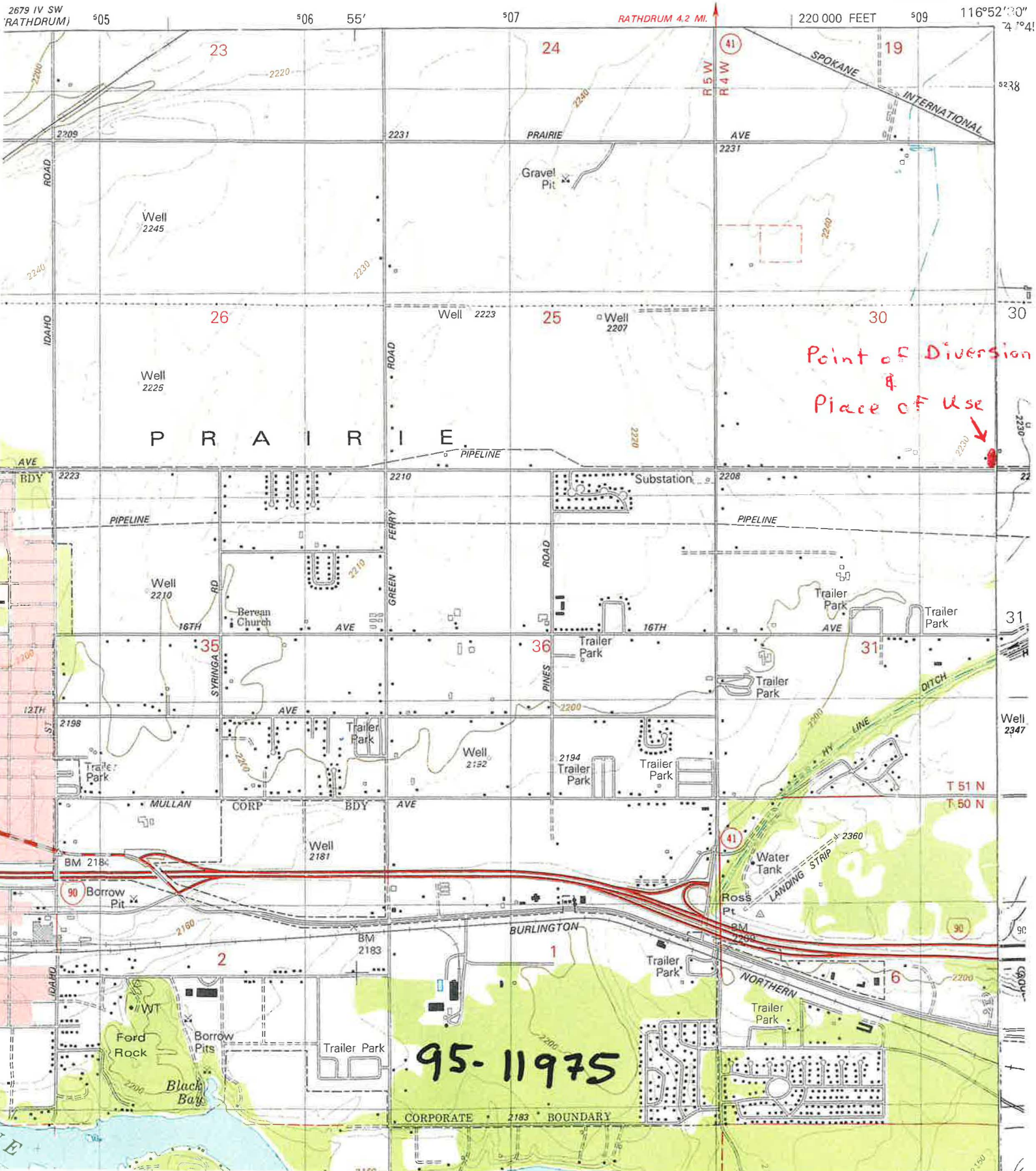
☐ Change P.D. as reflected above ☐ Add P.D. as reflected above ☒ None

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

I. AUTHENTICATION Shaun Maxey - Water Resource Agent, Senior

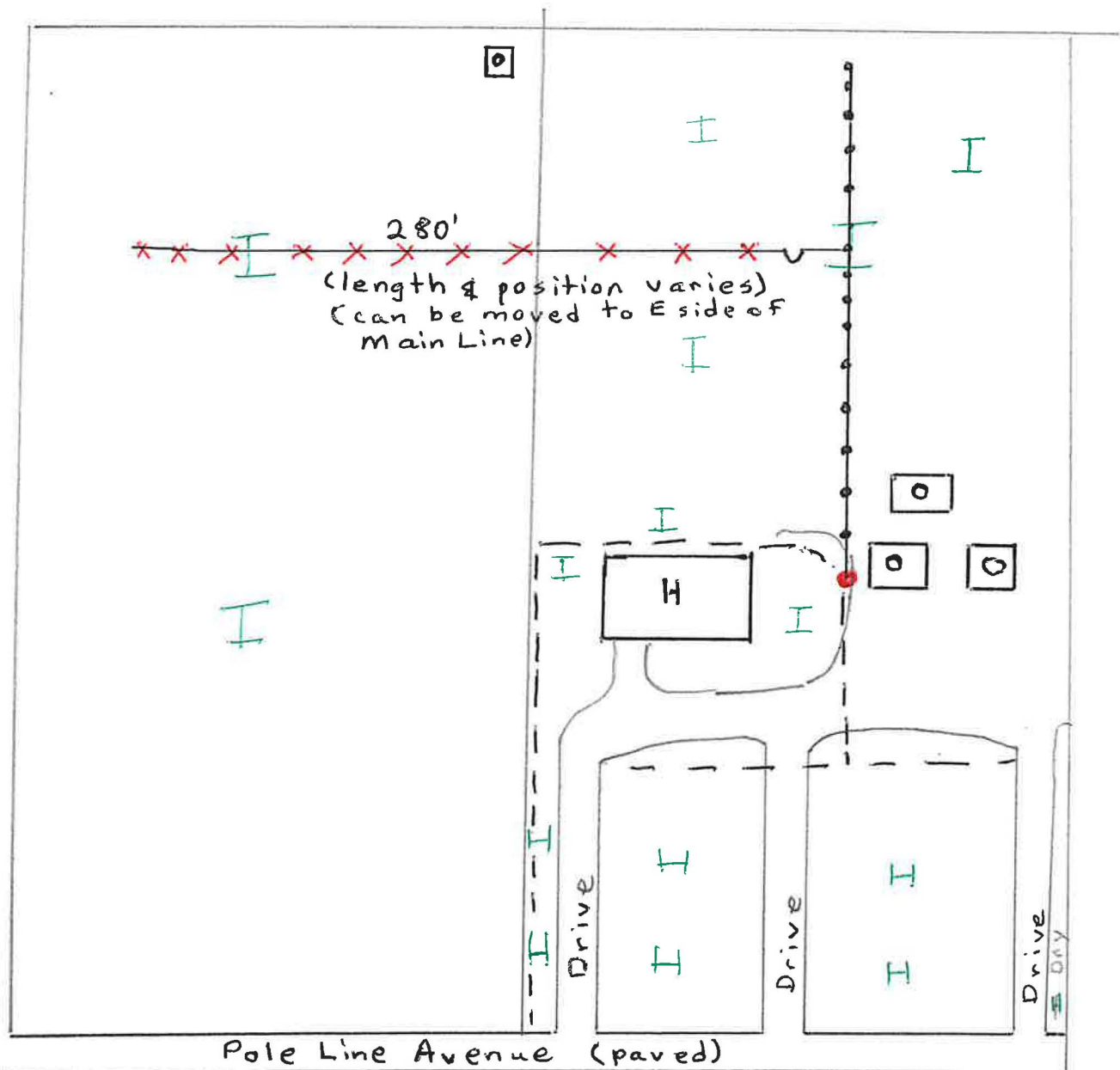
Field Examiner's Name Shaun M. Maxey Date 11/05/2021
 Reviewer Adrian Fink Date 11/16/2021

POST FALLS QUADRANGLE
IDAHO-KOOTENAI CO.
7.5 MINUTE SERIES (TOPOGRAPHIC)
NW/4 COEUR D'ALENE 15' QUADRANGLE



Delivery System Diagram (Not to Scale)

95-11975



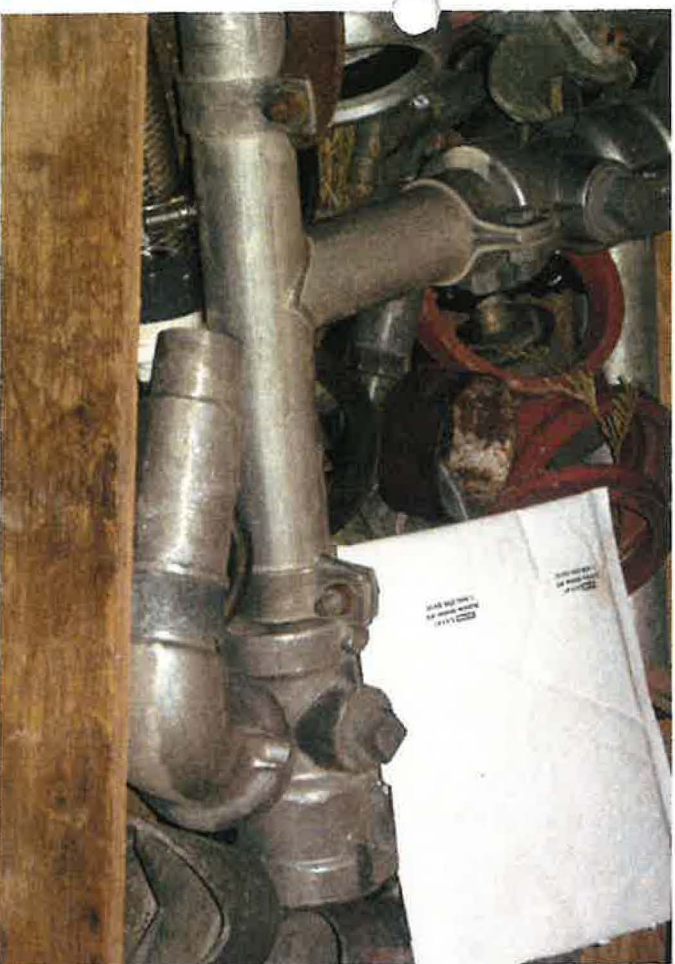
- I Irrigated Area
- H House
- O Outbuilding
- Well
- Buried Water Line
- main Line 3"

---x---x---x---x--- Hose & Reel Unit

↑
North



95-11975 Well DØ17Ø3Ø



95-11975 Irrigation Attachments



95-11975 Pressure Tanks in Outbuilding



95-11975 Well CTag DØ17Ø3Ø



95-11975 Italian plate on wheel & hose unit



95-11975 Black pressure tank



95-11975 wheel & hose unit



95-11975 3" Main Line, valve, & Hose to unit



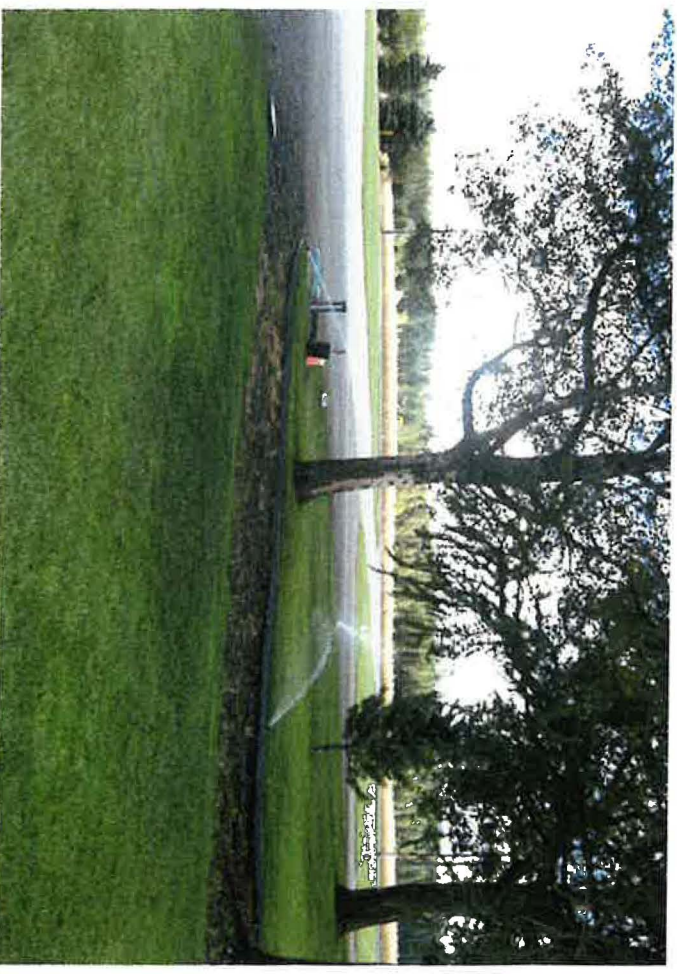
95-11975 Portion of rear yard. Irrigation POU.



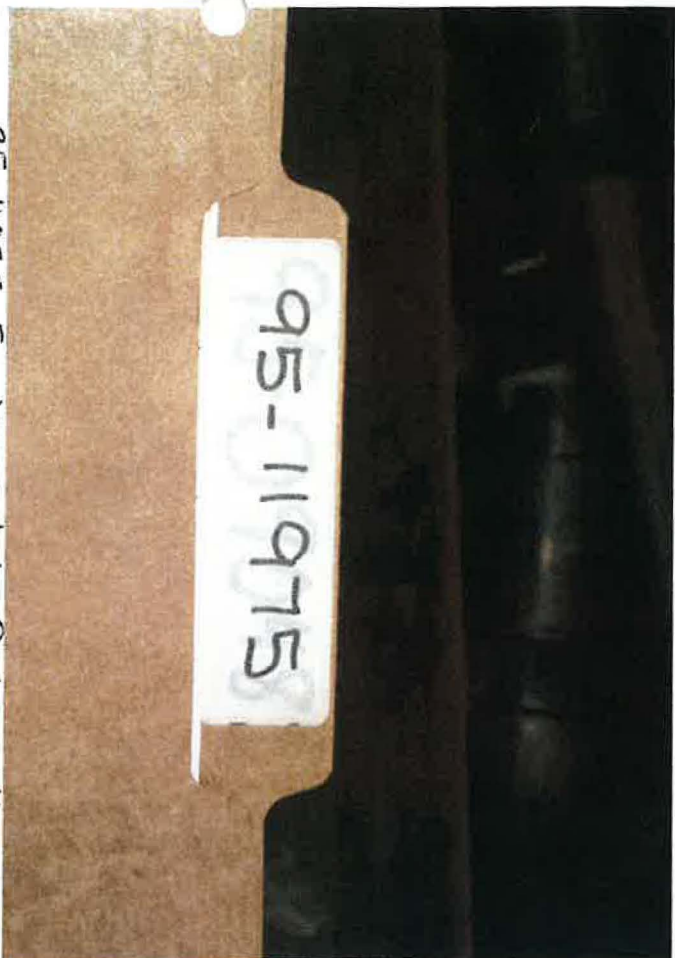
95-11975 Sprinklers Operating



95-11975 5 GAL BUCKET TEST NEAR WELL



95-11975 Sprinklers Operating South POU



95-11975 Equipment in Outbuilding



95-11975 Portion of 3" Main Line

🏠 Irrigation > Irrigation component > Irrigation hose reel > **RM Irrigation S.p.A.**



Products

Irrigation hose reel 300 Garden

🔑 turbine-drive



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RM Irrigation S.p.A.

 Italy Feedback on the quality of responses (from 6 buyers) This seller generally responds in under **6 hours**[Go to the RM Irrigation S.p.A. website for more information](#) 

CHARACTERISTICS

Application

for irrigation

Drive type

turbine-drive

Hose diameter

32 mm (1.26 in)

Hose length

90 m (295'03")

DESCRIPTION

The machine rewinds the hose while irrigating.

It works with a variable inlet pressure from 1,5 bar min. to 6 bar max. (got from water system, submerged pumps, and so on...).

The rewinding speed is adjustable in order to distribute the right quantity of water on the field.

Automatic water stop at end of irrigation.

Compact dimensions, optimum weight balancing on wheels.

The drawbar is thought to be hooked to small grass-cutters tractors.

Easy and economical maintenance. No experience is required for intallation and use.

Patented hydraulic rewinding cylinder and micro-filter on cylinder water supply.

Pressure gauge for inlet pressure.

Sector-type sprinkler with a set of nozzles.

PN 6 BD polyethylene hose.

Endless-screw hoseguide for a perfect hose rewinding.

Rail-chair mounted sprinkler; variable track wheeled trolley on request.

Detailed instruction manual.

CATALOGS

No catalogs are available for this product.

> See all of RM Irrigation S.p.A.'s catalogs

Go to the RM Irrigation S.p.A. website for more information

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JP TX40-90


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JPM TX40-90


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IRRIGATION HOSE REEL
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Mobile pump

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Hose-fed irrigation boom

Horizontal pump

Wheeled irrigation boom

4-wheel irrigation boom

Hose reel with pumping system

*Prices are pre-tax. They exclude delivery charges and customs duties and do not include additional charges for installation or activation options.
Prices are indicative only and may vary by country, with changes to the cost of raw materials and exchange rates.





State of Idaho

DEPARTMENT OF WATER RESOURCES

Northern Region, 7600 Mineral Drive, Suite 100, Coeur d'Alene, Idaho 83815

Phone: (208) 762-2800 FAX: (208) 762-2819 www.idwr.idaho.gov

July 1, 2015

C.L. "BUTCH" OTTER
Governor

GARY SPACKMAN
Director

David Holloway OR Chris Holloway
5293 Poleline AVE
Post Falls, ID 83854

FIELD EXAM NOTICE

RE: PERMIT NO. 95-11975

Mr. Holloway or Mrs. Holloway:

I will be in the area of your water use for Permit 95-11975 during the week of **July 6th - July 10th 2015** to conduct Field Exams to convert temporary Water Right Permits into permanent licensed Rights. You have already paid for your Exam for Permit 95-11975.

Please contact me to schedule a visit to your well and Place of Use property to complete the Exam. A person able to operate your system under normal conditions will need to be present during the Exam.

I can be reached at (208) 762.2816.

Respectfully,

Shaun M. Maxey

Sr. Water Resource Agent

Idaho Department of Water Resources, Northern Region

Enclosure

Copy of Permit 95-11975