

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 95-9250

Exam Date: 4/25/2007

1. Current Owner: JERRY L HANSON
9295 S TALL PINES RD
COEUR D ALENE ID 83814
(208)785-6146
2. Accompanied by: JERRY L HANSON
Phone No: (208) 765.6146
Address: 9295 S TALL PINES RD, COEUR D ALENE ID 83814
Relationship to Permit Holder: SAME

3. SOURCE

MICA CREEK

TRIBUTARY

COEUR D'ALENE LAKE

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:

MICA CREEK

SW1/4SW1/4

Sec. 9, Twp 49N, Rge 04W, B.M.

KOOTENAI County

Method of Determination: *USGS Mica Creek Quadrangle 7.5' Topographic*

2.

PLACE OF USE: IRRIGATION

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>	
49N	04W	9										.2	16.3						16.5

Total Acres: 16.5

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

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4.

Well or Diversion ID No.*	Motor Make	Hp	Model # Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
-	Homelite	1	AP125	Homelite	HP1320692

*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
Bucket	-	N/A	-	-	5 Gallon	-
wristwatch	-	-	Remington	N/A	N/A	N/A

2. Measurements:

5 gal filled in 35 seconds

$$\frac{5 \text{ GPM}}{35 \text{ sec}} \times \frac{?}{60 \text{ sec}} =$$

$$\frac{540}{35} = 15.4 \text{ GPM}$$

PUMP EQUATIONS

WATER RIGHT No. 95-9250

HP

H in feet

Efficiency
as a
decimalPumping
lift in
feetSystem
pressure in
PSI

Q

= $HP \times 8.8 \times \text{Eff} / H$

1

67.82313

0.7

10

25

Q

= 0.091 cfs

E. FLOW CALCULATIONS

Additional Computation Sheets Attached

Measured Method: 5 Gal in 35 seconds

$$\frac{5 \text{ GAL}}{35 \text{ SEC}} \times \frac{?}{60 \text{ SEC}} = \frac{540}{35} = 15.4 \text{ GPM} = 0.034 \text{ CFS}$$

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{IR} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = \frac{1615}{(1615)} \times (3.0) = 49.5$$

$$V_{O.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = (.10) \times (246) \times 1.9835 = 48.79$$

$$V = \text{Smaller of } V_{IR} \text{ and } V_{D.R.} = 48.79 = 48.8 \text{ AF}$$

2. Volume Calculations for Other Uses: NONE

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G. NARRATIVE/REMARKS/COMMENTS

Initial part of Field exam conducted April 25, 2007 at 10:30 A.M. Irrigation was not underway at this time so the exam was completed in August 2007. The owner diverts water from Mica Creek, a tributary of Lake Coeur d'Alene, to irrigate 17.4 acres of hay fields/pasture adjacent to and on the North Side of Mica Creek. The Place of Use (POU) is confined on the North by Tall Pines Road. The property is located is a short distance upstream on Mica Creek from Coeur d'Alene Lake.

Kootenai County tax lot information from 2002 conforms to the property description provided by the owner.

The owner uses a Homelite (Agricultural Pump) AP- 125 gasoline powered pump to extract water from Mica Creek for irrigating trees and to place in ditches to irrigate hayfields. This pump is hand carried up or down the North and South banks of Mica Creek within the same quarter quarter section (SW 1/4/ SW 1/4 Sect. 9, T49N R04W). The owner stated that this equipment can pump up to 1860 Gallons Per Hour or 7040 Liters Per Hour and lift up to 20 feet. Performance data was confirmed by a call to a Homelite 1-800 number and product comparison data available on the Internet (see enclosed information).

The installed irrigation system does not have the capacity to exceed the permitted amount of water. Pump output was measured at 15.428 Gallons per Minute through a garden hose used for watering individual trees) during severe conditions in August. Water levels in Mica Creek were low and lift was 10 feet with 50-75 feet of hose between the pump and the measuring point (individual trees). Theoretical calculations indicate the pump can generate up to the permit amount when used for hayfield irrigation.

Irrigation was the only use of water observed during the field exam. Wire fences surround the property. No livestock were on the property during the Exam. No other facilities for confining livestock or providing stock water were observed on the property during the exam. An intermittent stream originating to the North of the POU, tributary to Mica Creek, crosses Tall Pines Road and contributes to sub irrigation on the Northern part of the property. There is no known water right on this stream to irrigate the property.

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>
IRRIGATION	03/15 to 10/15	0.100 CFS	48.8 AF
<u>Totals:</u>		0.200 CFS	48.8 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

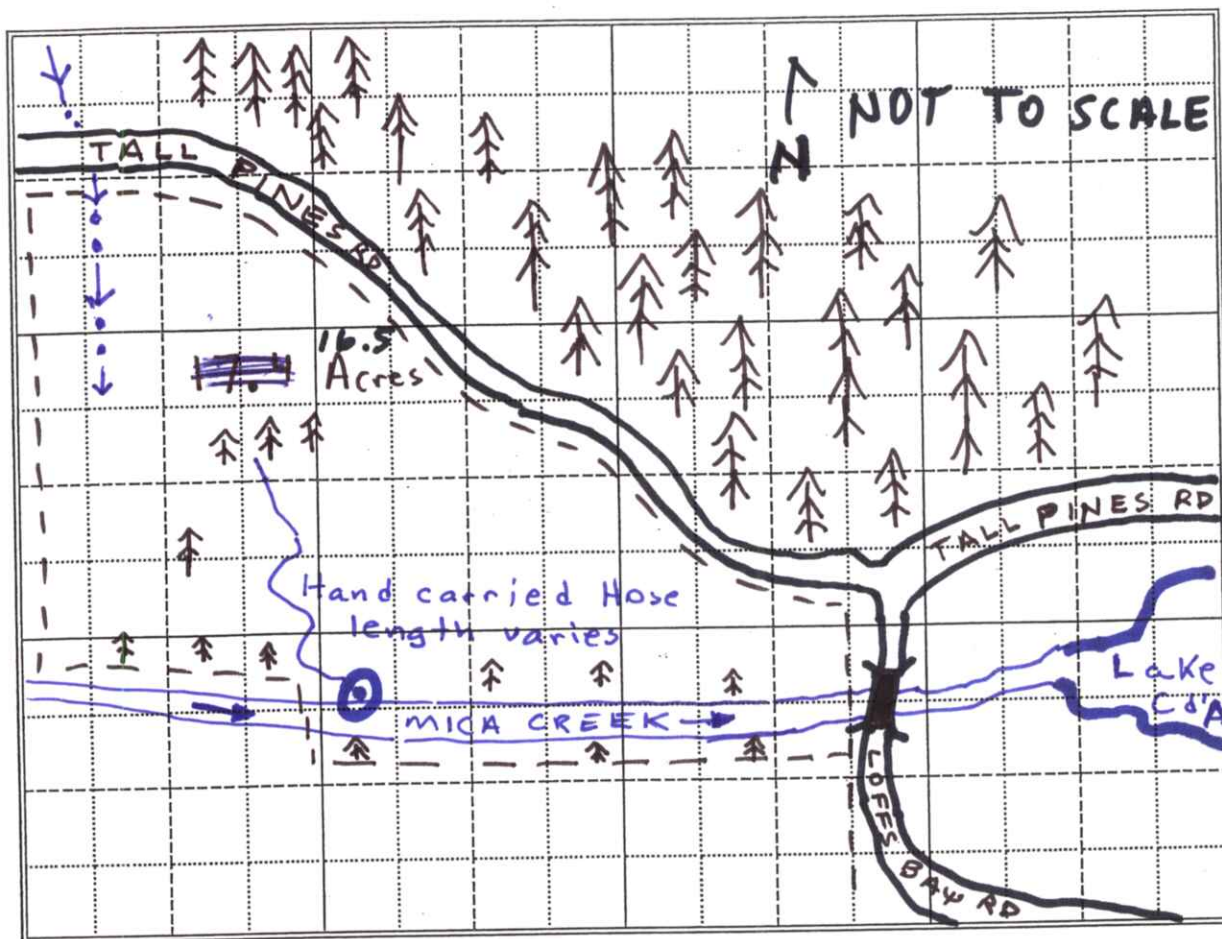
I. AUTHENTICATION

Field Examiner's Name [Signature] Date 1/23/08

Reviewer [Signature] Date 2/14/08

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3. Delivery System Diagram: Indicate all major components and distances between components. Indicate weir size/ditch size/pipe i.d. as applicable.



Scale: 1" = _____

____ Copy of USGS Quadrangle Attached Showing location(s) of point(s) of diversion and place(s) of use (required).

____ Aerial Photo Attached (required for irrigation of 10+ acres)

____ Photo of Diversion and System Attached

① Point of Diversion (Hand Carried Pump)

→...→...→ Unnamed seasonal stream
Fill defined streambed

↑↑↑ Mature Trees (Off Property)

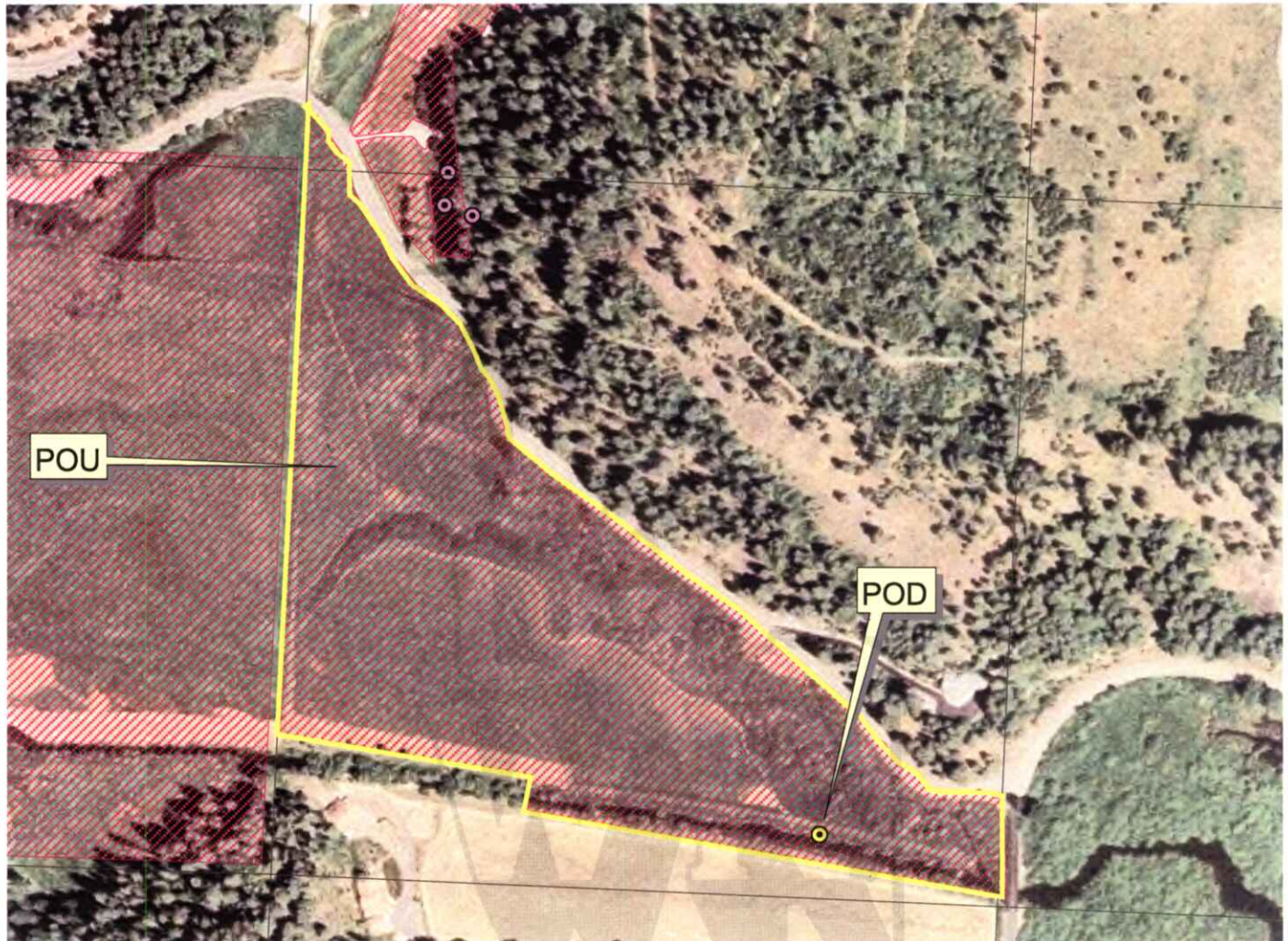
↑ Young Trees / Seedlings

--- Fence Line

▬ Bridge

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0.08 0 0.08 0.16 Miles

- GCDB49N04W GCDB
- Right POD
- Right POU



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95-9250 Cultivated N of Mica
CR.JPG



95-9250 curved row new
trees.JPG



95-9250 Field View NE.JPG



95-9250 Irrigated tree off
Mica CR.JPG



95-9250 Irrigated trees at
field edge.JPG



95-9250 Irrigated trees N of
Mica CR.JPG



95-9250 New Seedling
Cone .JPG



95-9250 New tree N end of
property.JPG



95-9250 New tree N part of
property.JPG



95-9250 Orange Stake
property corner.JPG



95-9250 Osprey Nest in
irrigated area.JPG



95-9250 Row of tress N of
Mica CR.JPG



95-9250 Trees at field
edge.JPG



95-9250 Trees w gate at SE
edge of property.JPG



95-9250 Vehicle at curved
row of new planted trees.J...



95-9250 View W at Field
edge.JPG

95-9250



95-925 Cultivated Area N of Mica Creek.doc



95-9250 Curved row new trees. jpg

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95-9250 Field View NE.jpg



95-9250 Field View NE.jpg

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95-9250 Irrigated Tree off Mica Creek.jpg



95-9250 Irrigated Trees at Field Edge.jpg

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95-9250 Irrigate Trees off Mica Creek.jpg



95-9250 New Seedling Cone.jpg

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95-9250 New Tree N end of Property.jpg



95-9250 New Tree N part of Property.jpg

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95-9250 Orange Stake Property Corner.jpg



95-9250 Osprey Nest in Irrigated Area.jpg

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95-9250 Row of Trees North of Mica Creek.jpg



95-9250 Trees at Field Edge.jpg

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95-9250 Trees with Gate at SE edge of Property.jpg



95-9250 ~~Vehicle at~~ Curved Row of new planted trees.jpg

~~Vehicle at~~
vehicle at

95-9250



95-9250 Vehicle W at Field Edge. jpg
View

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