

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 95-11307

Exam Date: 6/24/2015

1. Current Owner: PATRICK KEGLEY
21946 S LOFFS BAY RD
COEUR D ALENE ID 83814
(208)664-2968

And/Or

SANDRA KEGLEY
21946 S LOFFS BAY RD
COEUR D ALENE ID 83814
(208)664-2968

2. Accompanied by: PATRICK KEGLEY

Phone No: (208)664-2968

Address: 2900 N GOVERNMENT WAY #300 (MAIL)

Relationship to Permit Holder: SAME

3. SOURCETRIBUTARY

GROUND WATER

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:

GROUND WATER SW1/4, NE1/4, Sec. 4, Twp 48N, Rge 04W, B.M. KOOTENAI County

DRILLED WELL 95-92-N- 0140 COMPLETED 7.24/1992 FOR ZIEGLE .

116°51'27.3"W 47°32'12.4"N 8 SATTELEITES AT 11:37 A.M. 6/24/2015

Well located on Kootenai County parcel 48N04W041675.

Method of Determination: GARMIN GPS RECEIVER, MAPS

2.

<u>PLACE OF USE:</u>			DOMESTIC																
Twp	Rge	Sec	NE				NW				SW				SE				
			<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>	<u>Totals</u>
48N	04W	4			X														

<u>PLACE OF USE:</u>			<u>STOCKWATER</u>																
<u>Twp</u>	<u>Rge</u>	<u>Sec</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>	<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>Totals</u>
48N	04W	4			X														

<u>PLACE OF USE:</u>			IRRIGATION																
Twp	Rge	Sec	NE				NW				SW				SE				
			<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>	<u>Totals</u>
48N	04W	4		1.0	2.0														3.0
				L 2															
Total Acres:		3																	

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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
95-92-N- 0140		1			

Code to correspond with No. on map and aerial photo

D. FLOW MEASUREMENTS

Unable to perform detailed flow measurements at or near well because no exposed pipes were visible before water reaches frost free spigots. Route of buried water lines was not known. Flow observed at estimated at .03 cfs (14 Gallons Per Minute) at frost free spigot located approximately 100 feet from well. (5 gallon bucket test)

E. FLOW CALCULATIONS

☐ Additional Computation Sheets Attached

Measured Method:

Theoretical Pumping Equation for Water Right License 95-11307

	HP	H in feet	Efficiency as a decimal	Pumping lift in feet	System pressure in PSI
Q = $HP \cdot 8.8 \cdot \text{Eff} / H$	1	296.2585	0.8	250	20
Q =	0.024 CFS	11 GPM			

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 3.0 \text{ AC} \times 3 \text{ AF} = 9.0 \text{ AF}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.09 \text{ cfs} \times 230 \times 1.9835 = 41.05 \text{ AF}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = \text{IRRIGATION USE} \quad 9.0 \text{ AF}$$

2. Volume Calculations for Other Uses:

DOMESTIC USE FOR 1 HOME	0.6 AF
STOCKWATER USE FOR 8 HORSES	0.2 AF

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Department of Water Resources
Water Right License
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IRRIGATION

04W

48N



0 0.0175 0.035 0.07 Miles

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



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DOMESTIC

04W

48N



0 0.0175 0.035 0.07 Miles

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



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STOCKWATER

04W

48N



0 0.0175 0.035 0.07 Miles

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

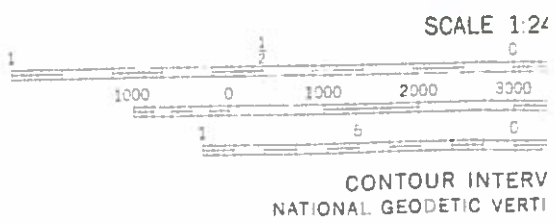




USGS 'Mica Bay'
7.5' Quadrangle
Topographic
1981

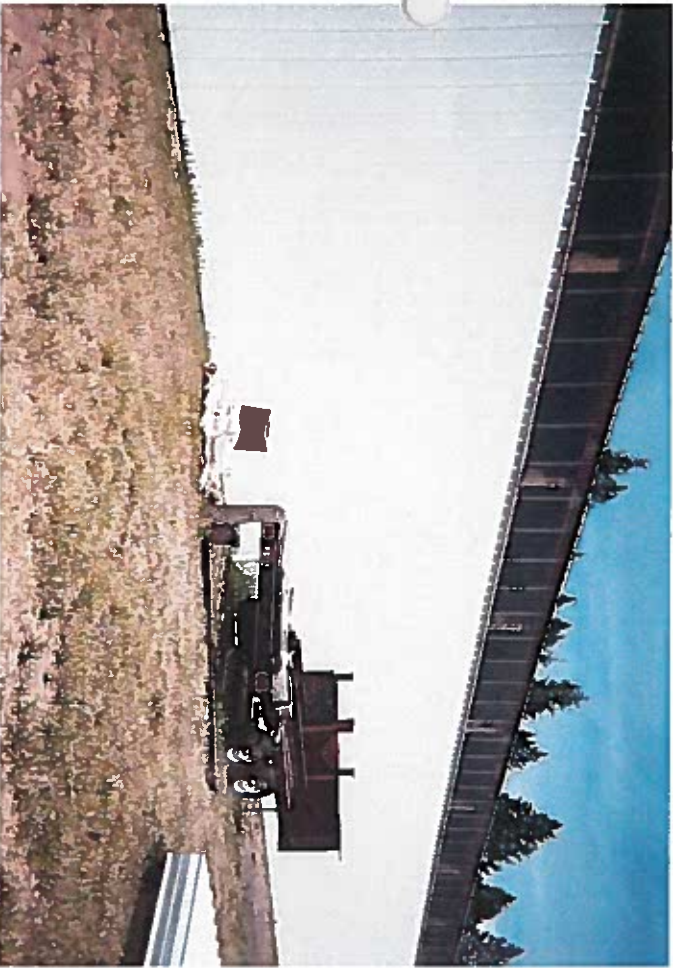
Mapped, edited, and published by the Geological Survey
Control by USGS and NOS/NOAA
Topography by photogrammetric methods from aerial
photographs taken 1975. Field checked 1976 Map edited 1981
Projection and 10,000-foot grid ticks: Idaho coordinate
system, west zone (transverse Mercator)
1000-meter Universal Transverse Mercator grid, zone 11
1927 North American Datum

95-11037





95-11307 well



95-11307 well



95-11307 Stock Tank & spigot



95-11307 IRRIGATION POU

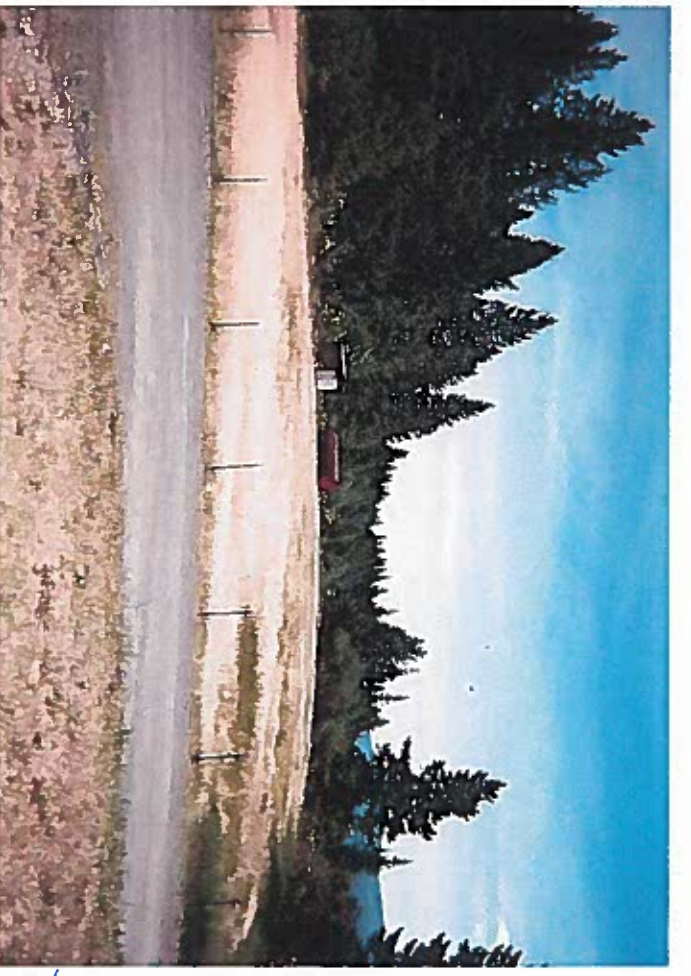
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45-11307 Frost Free Spigot Flowing



45-11307 Flowing Spigot



45-11307 Place of Use



45-11307 IRRIGATION & STOCK POOL
ANIMALS UNDER TREES

45-11307



45-11307 IRRIGATION FOR



45-11307 PLACE OF USE



45-11307 LIVESTOCK TRAILERS
FACILITIES



45-11307 DOMESTIC FOR

45-11307



95-11307 DOMESTIC POY



15-11307 IRRIGATION/DOMESTIC



95-11307 IRRIGATION POY



95-11307 IRRIGATION POY

95-11307

95-11307 STOCK FACILITIES



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