

STATE OF IDAHO

DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 95-9424

Exam Date: 09/02/2015

1. Current Owner:
BOB TITSCH 9627 N EASY ST HAYDEN LAKE ID 83835
AND
KATHY TITSCH 9627 N EASY ST HAYDEN LAKE ID 83835
2. Accompanied by:
Phone No: Don Wiltsie (208) 771.1575
Address: 6147 W Harvest AVE, Rathdrum, ID 83858
Relationship to permit Holder: Foreman

3. SOURCE:
GROUND WATERTRIBUTARY:

Method of Determination: ArcMap™, DRG, and Map-'Hayden' U.S. Geological Survey 7.5' Quad. (Topographic) 1991.

B. OVERLAP REVIEW

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

Water Right No.	Source	Purpose of Use	Basis
95-7124	Ground Water	Irrigation	License
95-8475	Ground Water	Domestic	Decreed

Comments: No evidence was found that Water Rights 95-7124 or 95-8475 are still being used on any of the 95-9424 Irrigation, Stockwater, or Domestic Places of Use. Application 95-9424 states prior owner abandoned use of 95-7124.

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

C. **DIVERSION AND DELIVERY SYSTEM.** Drilled well D0041314 pumps from the Rathdrum Prairie Aquifer. The well provides water to distribution lines and irrigation equipment to irrigate 1.3 acres, provide domestic water at a home and arena office, and provide stockwater.

1. LOCATION OF POINT(S) OF DIVERSION:

GROUND WATER

SW¼, NW¼, Sec. 20, Twp 51N, Rge 04W, B.M., KOOTENAI County

Method of Determination: Well GPS Coordinates -116 Deg. 52' 07.8 West. Longitude, 47 Deg. 45' 11.6 North Latitude

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	20							1.3										1.3

Total Acres: 1.3

PLACE OF USE: STOCKWATER

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	20							X										

PLACE OF USE: DOMESTIC

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	20							X										

Method of Determination: Field Exam and ArcMap™ aerial imagery

- 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
D0041314	Unknown	3	Unknown	Unknown	Unknown

D. FLOW MEASUREMENTS (None: See Theoretical Measurements below.)

1.

2. Measurements: (See attached Theoretical Pumping Equation For Water Right 95-9424)

E. FLOW CALCULATIONS

Measured Method:

F. VOLUME CALCULATIONS

1. Volume Calculations for irrigation:

$$V_{IR} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = (1.3 \text{ Acres}) \times (3.0 \text{ AF per Acre}) = 3.9 \text{ AF}$$

$$V_{DR} = [\text{Diversion Rate (CFS)}] \times (\text{Days in Irrigation season}) \times 1.9835 = (1.3 \text{ Acres @ } .03 \text{ CFS per acre} = .04 \text{ CFS} \\ (.04 \text{ CFS}) \times (214)) \times 1.9835 = 16.97 = 17.0 \text{ AF}$$

$$V = \text{Smaller of } V_{IR} \text{ and } V_{DR} = 3.9 \text{ Acre Feet (AF) IRRIGATION}$$

2. Volume Calculations for Other Uses:

$$\text{STOCKWATER Annual Volume } 4 \text{ horses (per Exam \& Statement of Completion)} \times 12 \text{ Gal Per Day} \times 365 = 17,520 / 325850 \\ 17,520 / 325,850 = 0.1 \text{ AF} \\ = 0.1 \text{ Acre Feet (AF) STOCKWATER}$$

$$\text{DOMESTIC Annual Volume (no irrigation included)} 1 \text{ home plus 1 office } (0.6 \text{ AF} \times 1) = 0.6 \text{ Acre Feet (AF) DOMESTIC}$$

G. NARRATIVE/REMARKS/COMMENTS

Field Exam performed on 9/02/2015 with Don Wiltsie. Mr. Wiltsie is foreman for the equine rehabilitation facility and indoor arena, owned by Bob and Kathy Titsch, served by the 95-9424 Point of Diversion (POD) well (Tag Number D0041314). This well provides water for the 95-9424 Irrigation, Stockwater and Domestic systems. A follow-up field exam conducted on 9/17/2020 confirmed that a 10 inch diameter well on the Titsch property (D0054408) is not connected to the 95-9424 system. The 10 inch diameter well is being licensed as 95-18047.

The Exams showed Groundwater is diverted for Irrigation, Stockwater and Domestic Places of Use (POU) for 1.3 acres, four horses, one home, and one arena office. Irrigation using permanently installed sprinklers, was observed during the 9/02/2015 Exam. A zone control box, located next to the well, controls Irrigation. The control box does not measure flow

rates. Tripods, connected to flexible garden hoses, with attached sprinkler heads are used to irrigate the lawn around the home. A small, decorative, rock lined water feature is located near the home. Domestic use in the arena office consists of a seldom used toilet and washbasin. The barn, arena, and stockwater tank indicate that the facility can accommodate up to 50 head Mixed Stock. Water from the well head moves via separate underground lines to the home and to the lawn around the home and stockwater tanks. The stockwater use occurs at a barn on the east side of the arena.

Photographs of the Irrigation, Stockwater, and Domestic POU's were taken during the Exams and areas of Domestic and Irrigation use noted on temporary field maps and ArcMap™ images. In-office review of ArcMap™ images and the Kootenai County property tax property boundary was used after the Exam to accurately determine the Irrigation, Stockwater, and Domestic POU's.

No Water Right Overlap exists. IDWR records indicate that Water Rights 95-7124 and 95-8745 overlap each of the 95-9424 POU's. The Point of Diversion (POD) wells for both of these Rights lie off the 95-9424 property. Mr. Wiltse indicated that no source of water located outside the Titsch property is used. A different irrigation well on the Titsch property (D0054408), is used on-a non-overlapping Irrigation POU, for Water Right 95-18047. No evidence that 95-7124, 95-8745, or 95-18047 are currently used on the 95-9424 POU's was seen during the Exams

CFS and Maximum Diversion Volume is restricted by well capacity. A 3.0 Horsepower submersible pump is installed in an eight inch diameter, 343' deep well completed in 2005 (D0041314) that supplies ground water. Static level at time of well completion was 240 feet below ground level. A \$125 well upgrade fee was paid (Receipt N020681) in 2009. The well and buried water line configuration do not have an installed flowmeter or exposed pipe that is suitable for portable flowmeter measurement. A theoretical calculation for well D0041314 was performed, indicating the well can supply .05 CFS (23.0 Gallons Per Minute).

The Statement of Completion (SOC) indicates seven acres are irrigated and that water for is used for four horses and two domestic uses. The 95-9424 Irrigation POU was found to equal only 1.3 acres versus the 7.0 acres shown on the SOC. The remaining acres (5.7) shown on the SOC are accounted for in the Irrigation POU for License 95-18047. **Recommended Annual Volume for Irrigation is 3.9 AF** (1.3 Acres x 3.0 AF = 3.9 AF). **Recommended Annual Volume for Stockwater is 0.1 AF** (4 horses x 12 GPD x 365 days = 17,520/ 32,580 = 0.1 AF). **Recommended Domestic Annual Volume is 0.6 AF** for one home and one arena office (1 x 0.6 AF) without irrigation.

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	0.03 CFS	3.9 AF
STOCKWATER	01/01 to 12/31	0.02 CFS	0.1 AF
DOMESTIC	01/01 to 12/31	0.04 CFS	0.6 AF

Totals: 0.05 CFS 4.6 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

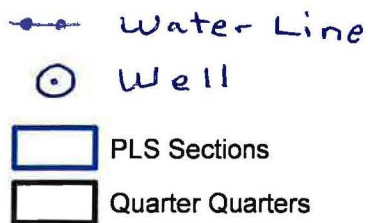
Field Examiner's Name Shaun M. Maxey Date 08/31/2021
Reviewer Ada Fink Date 8/31/2021

THEORETICAL PUMPING EQUATION FOR WATER RIGHT 95-9424

Theoretical pumping equation with estimated depth of pump at 328 feet running at an estimated 40 psi.

PUMP EQUATIONS WATER RIGHT No. 95-9424						
		HP	H in feet	Efficiency as a decimal	Pumping lift in feet	System pressure in PSI
Q =	HP*8.8*Eff/H	3	420.517	0.8	328	40
Q =	0.050 cfs		22.6 gpm			

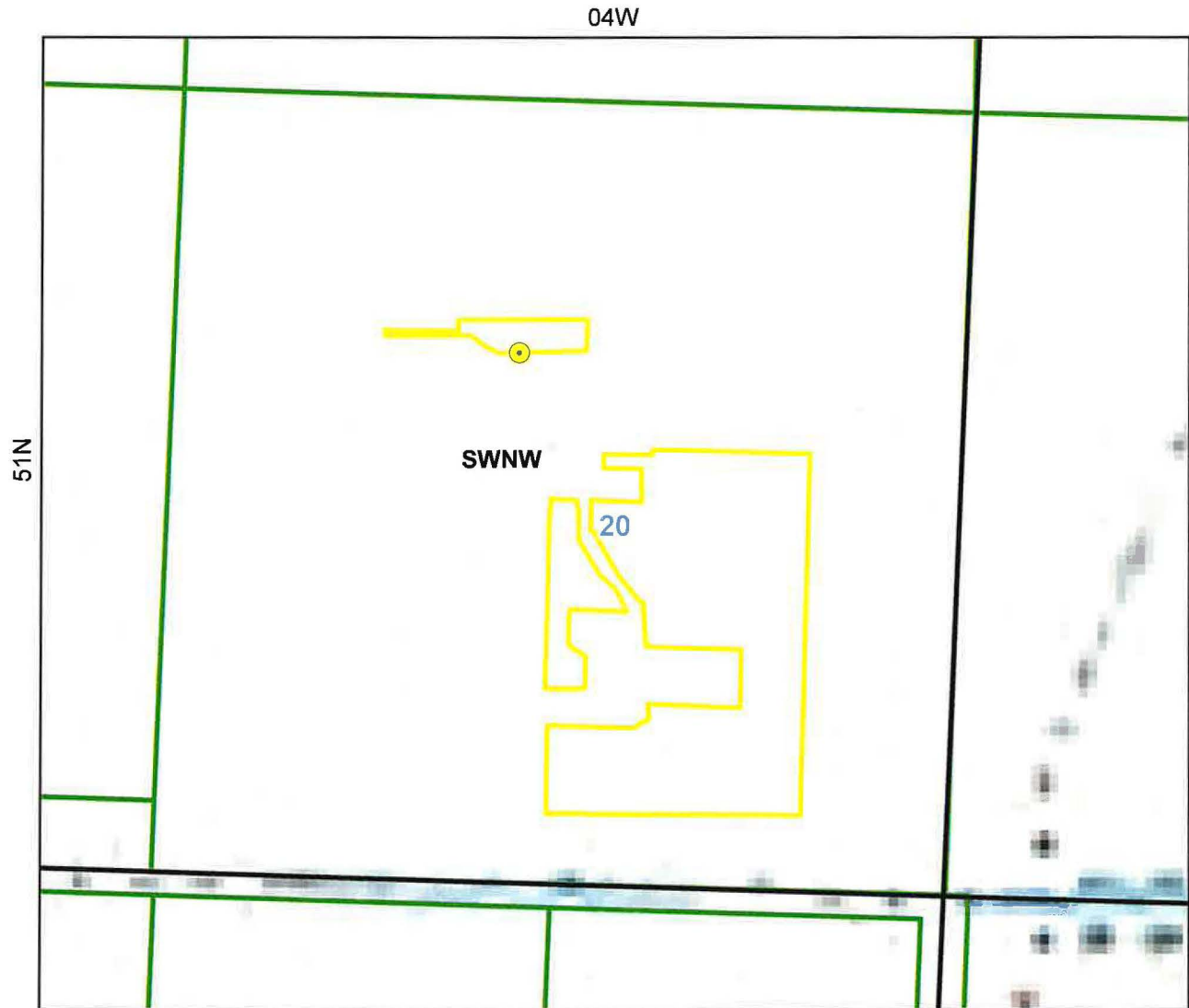
95-9424



Tax parcel information provided by Kootenai County.

State of Idaho
Department of Water Resources

Topographic Map with Irrigation Place of Use- Field Exam 95-9424
95-9424



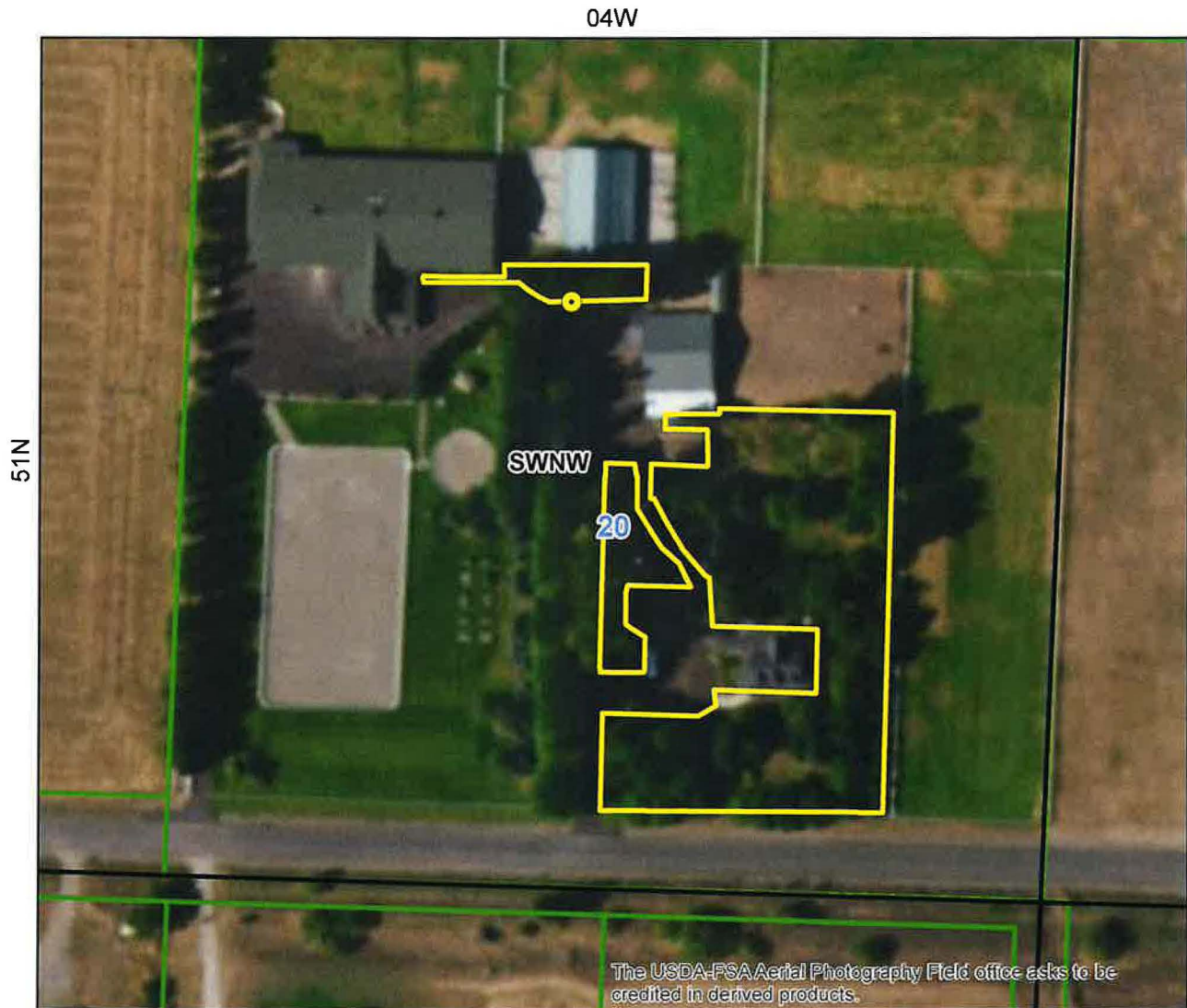
-  Point of Diversion
-  Place Of Use Boundary
-  PLS Sections
-  Quarter Quarters
-  Taxlots

0 0.0175 0.035 0.07 Miles



Tax parcel information provided by Kootenai County.

State of Idaho
Department of Water Resources
Irrigation Place Of Use - Field Exam 95-9424



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

0 0.015 0.03 0.06 Miles



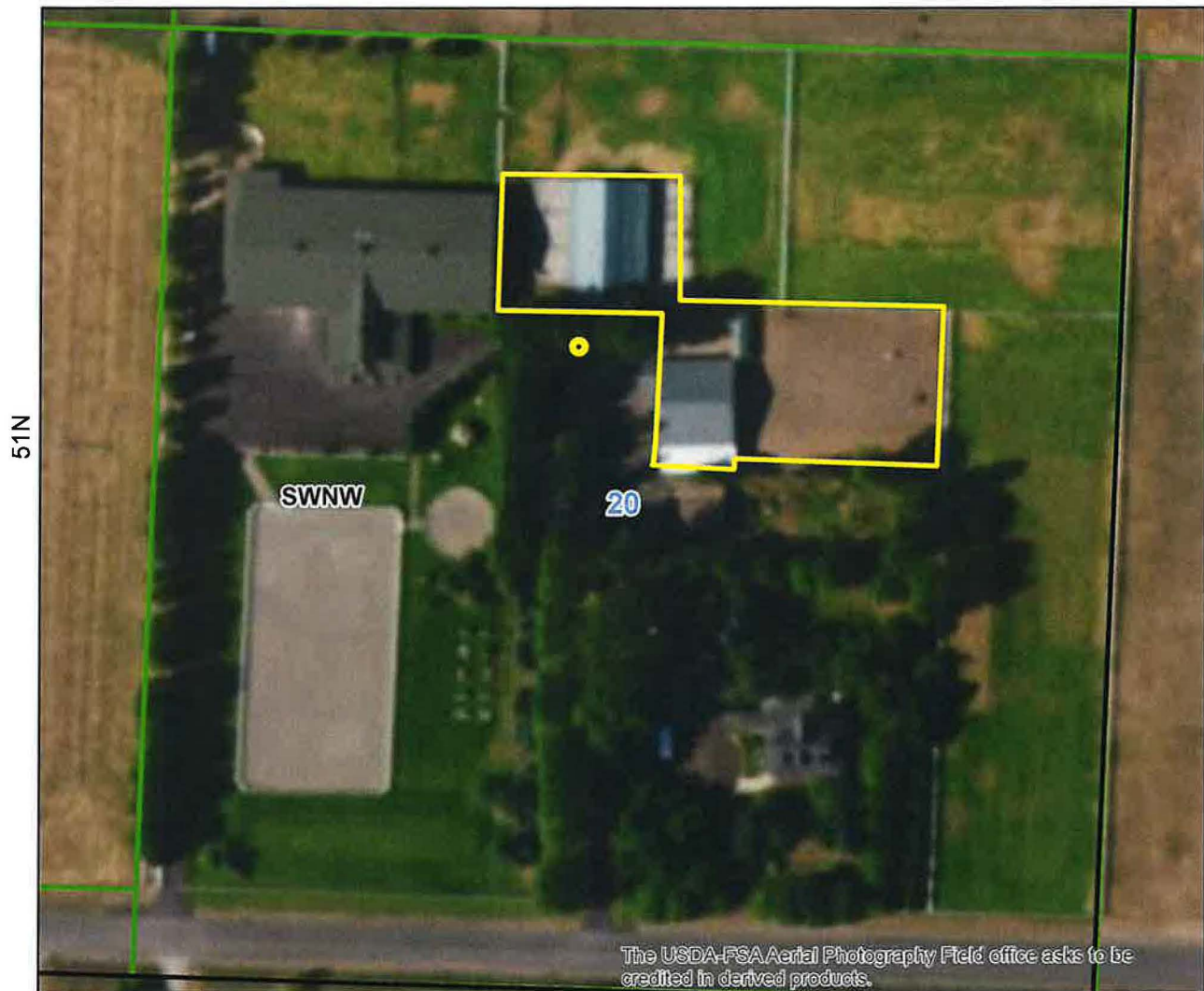
Tax parcel information provided by Kootenai County.

State of Idaho
Department of Water Resources

Stockwater Place Of Use - Field Exam 95-9424

This map depicts the STOCKWATER place of use boundary for this water right at the time of this approval and is attached to the approval document solely for illustrative purposes.

04W



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

0 0.015 0.03 0.06 Miles



Tax parcel information provided by Kootenai County.

State of Idaho
Department of Water Resources

Domestic Place Of Use - Field Exam 95-9424

This map depicts the DOMESTIC place of use boundary for this water right at the time of this approval and is attached to the approval document solely for illustrative purposes.

04W



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

0 0.0175 0.035 0.07 Miles



Tax parcel information provided by Kootenai County.

IDAHO DEPARTMENT OF WATER RESOURCES WELL DRILLER'S REPORT

Location Corrected by IDWR To:
T51N R04W Sec. 20 SESWNW
By: mciscell 2013-09-10

1. WELL TAG NO. D0041314

DRILLING PERMIT N 838709

Other IDWR No. _____

2. OWNER:

Name Jim Peck

Address 3386 Highway 41

City Post Falls

State ID

Zip 83854

3. LOCATION OF WELL by legal description:

N		Twp	51N	North	☒ or	South	☐
W		Rge	04W	East	☐ or	West	☒
E		Sec	20	1/4 NW 1/4 NE 1/4			
S				10 Ac	40 Ac	160 Ac	
		Gov'l Lot		County	Kootenai		
		Lat		Long			

Address of Well Site: (see next line)

W Harvest Area

City Hayden

Lot _____

Blk _____

Sub. Name (see next line)

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/FILTER PACK			Amount	Method
Material	From	To	Sacks/Lbs	
Granul Bentonite	0	18	8 sacks	Dry Pour

Drive Shoe Used? ☒ Y ☐ N Shoe Depth(s) _____ Ring Bit 343

Drive Shoe Seal Tested? ☐ Y ☒ N How? _____

8. CASING/LINER

Diam	From	To	Gauge	Material	Casing	Liner	Weld	Threaded
8	1	343	0.280	Steel	☒	☐	☒	☐
					☐	☐	☐	☐
					☐	☐	☐	☐

Length Headpipe _____

Length Tailpipe _____

9. PERFORATIONS/SCREENS

☒ Perforations? Method Air Perforator

☐ Screens? Screen Type _____

From	To	Slot	Nmbr	Diam	Material	Casing	Liner
330	340	1x1/4	50	8	Steel	☒	☐
						☐	☐
						☐	☐

10. STATIC WATER LEVEL or ARTESIAN PRESSURE

240 ft. below ground Artesian pressure _____ lb.

Depth flow encountered 240 ft. Describe access port or

control devices: Steel Cap Welded

11. WELL TESTS

☐ Pum ☐ Bailer ☒ Air ☐ Flowing Artesian

Yield gal./min.	Drawdown	Pump Level	Time
20+	100%	335	2 hrs.

Water Temp. _____ Cold Bottom hole temp. _____ Cold

Water Quality test or comments: (below) Depth first Water Encountered 240

Clear, cold, no smell

12. LITHOLOGIC LOG (Describe repairs or abandonment)

Bore Diam	From	To	Lithology, Water Quality and Temperature	Water	
				Y	N
8	0	1	Top Soil	☐	☒
8	1	18	Sand & Gravel 3/4	☐	☒
8	18	125	Sand & Gravel 3/4	☐	☒
8	125	180	Sand & Gravel 1/8	☐	☒
8	180	185	Sand & Gravel w/ Silt and Clay Gray	☐	☒
8	185	240	Sand & Gravel 1/4	☐	☒
8	240	320	Sand & Gravel 1/4	☒	☐
6	320	343	Sand & Gravel 3/4	☒	☐

RECEIVED
MAR 24 2006
IDWR/North

Completed Dept 342 (Measurable)

Date Started 3/7/2006 Complete 3/9/2006

13. DRILLERS CERTIFICATION

I/We certify that all minimum well construction standards were complied with at the time the rig was removed.

Firm Name United Drilling Inc.

Firm N 414

Firm Official

Jason C. Beckham

Date 3/13/2006

and

Supervisor or Operator Jason C. Beckham

Date 3/13/2006

51N 4W 20



Well DØØ41314 (Domestic, Stockwater, Lawn Irrigation).



Well DØØ41314 & zone control box



5 Gal bucket test in lawn area near home.



Well DØØ41314 (Domestic, Stockwater, lawn Irrigation)



Front lawn with tripod holding Irrigation Sprinkler.



Domestic Use (Home) Southeast part of property.



Home (left rear) & lawn, View South toward entrance.



Small water feature next to home.



State of Idaho

DEPARTMENT OF WATER RESOURCES

Northern Region • 7600 N Mineral Drive, Suite 100 • Coeur D'Alene ID 83815-7763

Phone: (208) 762-2800 • Fax: (208) 762-2819

Website: idwr.idaho.gov • Email: northerninfo@idwr.idaho.gov

BRAD LITTLE
Governor

GARY SPACKMAN
Director

September 11, 2020

Titsch Family Trust
9627 N Easy ST
Hayden Lake, ID 83835

FIELD EXAM NOTICE

RE: PERMIT NO. 95-09424

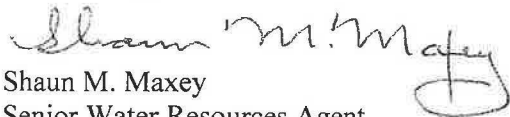
Dear Permit Holder:

We are planning to complete previously initiated water right Field Examinations in the vicinity of your Water Right Permit during September - October 2020. It has come to my attention that the above listed water right remains in permit status and a license has not been issued. The Field Examination is needed to verify your water use in order to issue water right license for Permit 95-09424.

Please contact me as soon as possible to schedule a brief visit to complete the Field Exam at your 6147 West Harvest Avenue property. A photo of one of the well locations, information on the installed pump horsepower for each well, and the layout of the respective water systems for each well are needed to complete the Exam. Please be advised that you, or your authorized representative, will need to operate the water systems under normal conditions during the Field Examination.

I can be reached at (208) 762.2816 or via e-mail at Shaun.Maxey@idwr.idaho.gov if you have any questions.

Respectfully,



Shaun M. Maxey
Senior Water Resources Agent
Idaho Department of Water Resources, Northern Region

Enc
Copy of Permit 95-09424



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

August 11, 2015

C.L. "BUTCH" OTTER
Governor

GARY SPACKMAN
Director

Bob Titsch AND Kathy Titsch
1828 E Chalet CT
Hayden, ID 83835

FIELD EXAM NOTICE

RE: PERMIT NO. 95-9424

Mr. or Mrs. Titsch:

I will be in the area of your water use for Permit 94-7548 **August 31st through September 4th, 2015** to conduct Field Exams to convert temporary Water Right Permits into permanent licensed Rights. You have already paid for your Exam for Permit 95-9424

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

Please complete and return the enclosed Address Change form if your permanent mailing address differs from that shown on the Permit.

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 95-9424

Bob Titsch AND Kathy Titsch
1828 E Chalet CT
Hayden, ID 83835



RECEIVED

AUG 13 2015

IDWR/11/15

992 N7E 1700415I0008/11/15
RETURN TO SENDER
TITSCH
9627 N EASY ST
HAYDEN ID 83835-9526

RETURN TO SENDER

83835-9526



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

August 11, 2015

C.L. "BUTCH" OTTER
Governor

GARY SPACKMAN
Director

Bob Titsch AND Kathy Titsch
1828 E Chalet CT
Hayden, ID 83835

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Please complete and return the enclosed Address Change form if your permanent mailing address differs from that shown on the Permit.

I can be reached at (208) 762.2816.

Respectfully,

A handwritten signature in cursive script that reads "Shaun M. Maxey".

Shaun M. Maxey
Sr. Water Resource Agent
Idaho Department of Water Resources, Northern Region

Enclosure
Copy of Permit 95-9424