

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 29-13716
Exam Date: 08/22/2024

1. Current Owner:
CRAIG C CRANDALL 1034 KIMBALL LN CHESTERFIELD ID 83217
2. Accompanied by: Craig C Crandall

3. **SOURCE:**
SPRING
COLD SPRING

Tributary
SINKS
TWENTY FOUR MILE

Method of Determination: ArcMap and Field Exam Observation

B. OVERLAP REVIEW

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

Water Right No.	Source	Purpose of Use	Basis
29-2390	Ground Water	Irrigation, Stockwater	Decreed
29-2414	Ground Water	Irrigation, Stockwater	Decreed
29-10172	Ground Water	Stockwater, Domestic	Decreed
29-13439	Portneuf River	Stockwater	Decreed
29-13441	Twenty-Four Mile Creek	Stockwater	Decreed
29-13442	Spring	Stockwater	Decreed
29-13446	Spring	Stockwater, Domestic	Decreed
29-13447	Spring	Stockwater	Decreed
29-13448	Spring	Stockwater, Domestic	Decreed
29-13453	Spring	Stockwater	Decreed

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

Water Right No.	Source	Purpose of Use	Basis
29-13446	Spring	Stockwater, Domestic	Decreed
29-13453	Spring	Stockwater	Decreed
29-13447	Spring	Stockwater	Decreed
29-13448	Spring	Stockwater, Domestic	Decreed
29-13461	Spring	Stockwater	Decreed

C. DIVERSION AND DELIVERY SYSTEM1. **LOCATION OF POINT(S) OF DIVERSION:**

SPRING NE¼ NE¼ SE¼, Sec. 20, Twp 06S, Rge 39E, B.M. CARIBOU County
 SPRING SW¼ NW¼ NW¼, Sec. 21, Twp 06S, Rge 39E, B.M. CARIBOU County
 COLD SPRING NW¼ NW¼ SE¼, Sec. 5, Twp 06S, Rge 39E, B.M. CARIBOU County

Method of Determination: ArcMap and Field Exam Observation

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	
06S	39E	21		X	X				X										
07S	39E	5				X L1							X	X	X			X	
07S	39E	8				X													
07S	39E	4			X L2										X	X			
06S	39E	9					X			X									
06S	39E	32					X									X			
06S	39E	20													X				
06S	39E	5														X			
06S	39E	4										X							
06S	39E	15										X							
07S	39E	9										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	
07S	39E	5												X					

Method of Determination: **ArcMap and Field Exam Observation**

3.

Delivery System Diagram Attached (required). Indicate all major components and distances between components.

 X 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.

 X X Aerial Photo Attached (required for irrigation of 10+ acres). X Photo of Diversion and System Attached**D. FLOW MEASUREMENTS**1. **Measurements:** None taken per IDAPA 37.03.02 Beneficial Use Exam Rules**E. VOLUME CALCULATIONS**1. Volume Calculations for irrigation: **N/A**

2. Volume Calculations for Other Uses: Permit is for Stock water and Domestic use covered under Part A of 42-111. Therefore, no volume is required per IDAPA 37.03.02 Beneficial Use Exam Rules

F. NARRATIVE/REMARKS/COMMENTS

Permit 29-13716 was filed on July 18, 2005 by Craig Crandall for the diversion of 0.14 cfs (with up to 13,000 gpd) of water from three springs for Domestic and Stock Water uses located on his property near Chesterfield in Caribou County. The applicant's property boundary is approximately 3 miles wide east-to-west and approximately 8 miles long north-to-south that slopes downhill from north to south. The springs are in the higher-elevation northern portion of the property and provide gravity-fed water to stock troughs and one home.

On 09/16/2024 I met with Mr. Crandall, and he showed me the developed system for the Stock Water and Domestic uses. Water from three separate springs is collected via spring boxes. From the spring boxes water is gravity-fed through buried 2-inch HDPE pipe to four buried 1200-gallon tanks. On/off valves on both the inlet and outlet side of the tanks provide control of the water supply. The four buried tanks are approximately 5,675 feet above sea level that function collectively to provide a consistent supply of gravity-fed water (using buried 2-inch HDPE pipe) to the stock troughs and home. All troughs use a float system to maintain a constant water level. The Domestic POU, with an elevation drop of approximately 300 feet, has water pressure that easily exceeds 100 psi and a pressure reducer is necessary for culinary use in the home. The domestic water supply has a lockable control valve in a valve box located approximately 100 feet south of the home.

As mentioned in the first paragraph, permit 29-13716 was authorized for a flow rate of 0.14 cfs. The authorized flow rate is below the measurement threshold of 0.24 cfs as outlined in the IDAPA 37.03.02 Beneficial Use Exam Rules. Prior to conducting the field exam, I contacted the Eastern Region office about waiving the measuring device requirement outlined in Permit Condition 01J. Eastern Region staff agreed to waive the measurement device requirement but wanted lockable controlling works (also outlined in 01J) both at Cold Spring and at the Domestic POU. The field exam confirmed lockable works at Cold Spring and on the Domestic supply line to the home so condition R02 will be added. Condition 01J will be replaced with 01R (install a measuring device "when notified" by IDWR).

As mentioned in the first paragraph, the permit was filed in 2005 and Proof of Beneficial use was received in 2007. The Field Exam revealed extra troughs were added to the system which required a licensing amendment to add seven additional quarter-quarters to the POU. No changes were made to the Domestic POU. A Licensing Amendment was sent to the applicant and Southern Region received the signed and dated amendment with the \$100.00 fee on October 15, 2024.

Conditions on the permit have been complied with and I recommend licensing Water Permit 29-13716 for a flow rate of 0.14 cfs.

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

G. RECOMMENDATIONS

1. Recommended Amounts

<u>Beneficial Use</u>	<u>Period of Use</u>	<u>Rate of Diversion</u>	
STOCKWATER	01/01 to 12/31	0.10 CFS	
DOMESTIC	01/01 to 12/31	0.04 CFS	

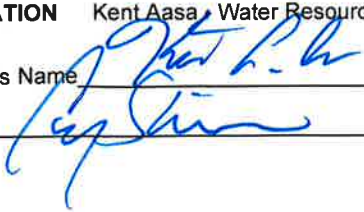
Totals: **0.14 CFS**

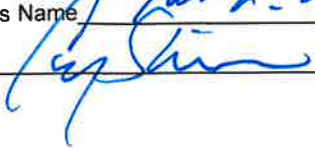
2. Recommended Amendments

☐ 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

H. AUTHENTICATION Kent Aasa, Water Resource Agent, Senior

Field Examiner's Name  Date 11-13-2024

Reviewer  Date 11/22/2024

MEMORANDUM

TO: 29-13716 Field Exam
FROM: Kent Aasa
DATE: 09/26/2024
RE: Removing Permit Condition 01J at licensing

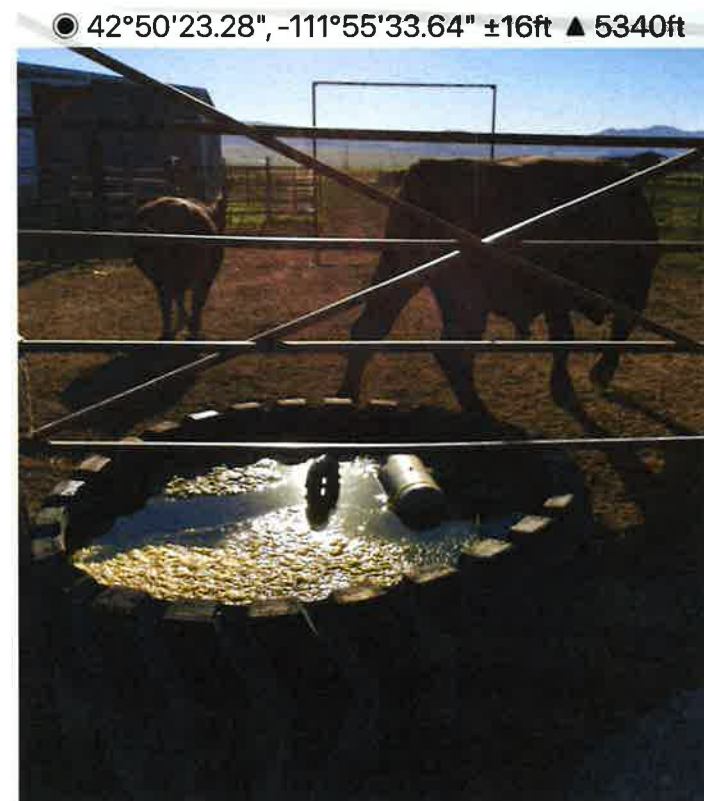
Prior to performing the field exam I discussed, by telephone, with Eastern staff the possibility of removing permit condition 01J that required a measuring device and lockable works. Permit 29-13716 beneficial uses are Domestic and Stock water with a combined flow rate of 0.14 cfs and 13,000 gpd limit. Following the guidelines outlined in 37.03.02 Beneficial Use Examination Rules, a flow of less than 0.24 cfs does not require a measurement. Eastern staff recommended removing condition 01J at licensing and using a “when notified” measuring device condition. The developed distribution system contains lockable works at Cold Spring and for Domestic use.

Summary

Permit condition 01J replaced with 01R that requires the installation of a measuring device: “When notified by the Department...”.

Permit condition R02 will also be added: “A lockable device shall be maintained...provide the watermaster suitable control...”

29-13716 POU



29-13716 POU

● 42°49'48.43", -111°54'57.11" ±16ft ▲ 5324ft



● 42°50'36.57", -111°54'18.57" ±16ft ▲ 5351ft



29-13716 POU

● 42°51'9.55", -111°54'52.69" ±16ft ▲ 5350ft



● 42°51'29.40", -111°54'55.16" ±16ft ▲ 5357ft



29-13716 POU

● 42°52'48.79", -111°54'20.00" ±16ft ▲ 5670ft



● 42°53'14.53", -111°53'27.66" ±16ft ▲ 5950ft



29-13716 POU

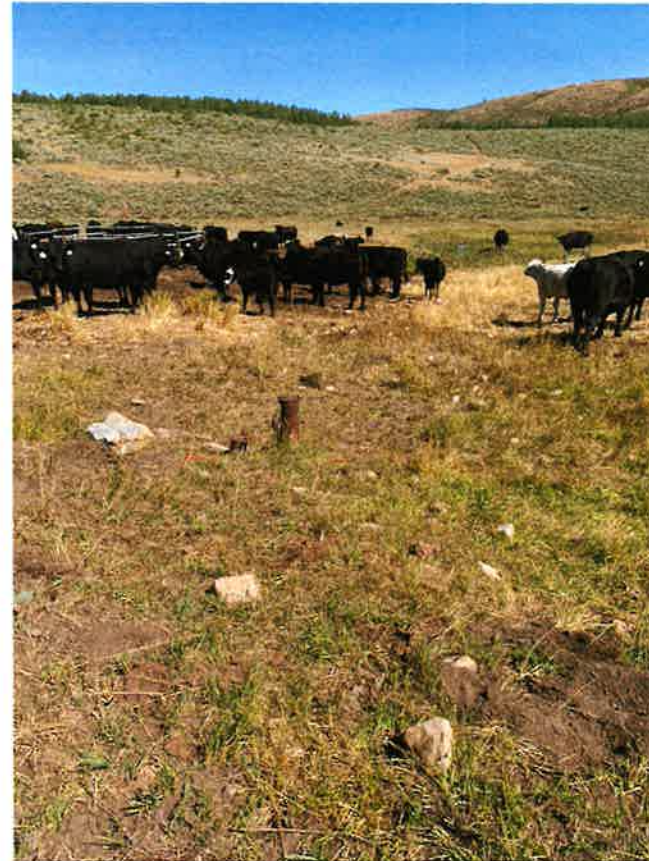
● 42°53'48.03", -111°52'57.08" ±16ft ▲ 5914ft



● 42°53'10.46", -111°54'12.73" ±16ft ▲ 5913ft



29-13716 POU



Field Exam 29-13716

29-13716 POU



29-13716 POU

● 42°53'14.51", -111°53'27.75" ±16ft ▲ 5951ft



● 42°53'48.03", -111°52'57.08" ±16ft ▲ 5914ft



29-13716 POD

Call Spring



Cold Spring



29-13716 Loveland Spring

● 42°53'10.46", -111°54'12.73" ±16ft ▲ 5913ft



29-13716 Lockable Works

Cold Spring Lockable Works



Domestic Lockable Works

© 42°50'21.44", -111°55'41.79" ±16ft ▲ 5366ft



29-13716 Four Buried Tanks

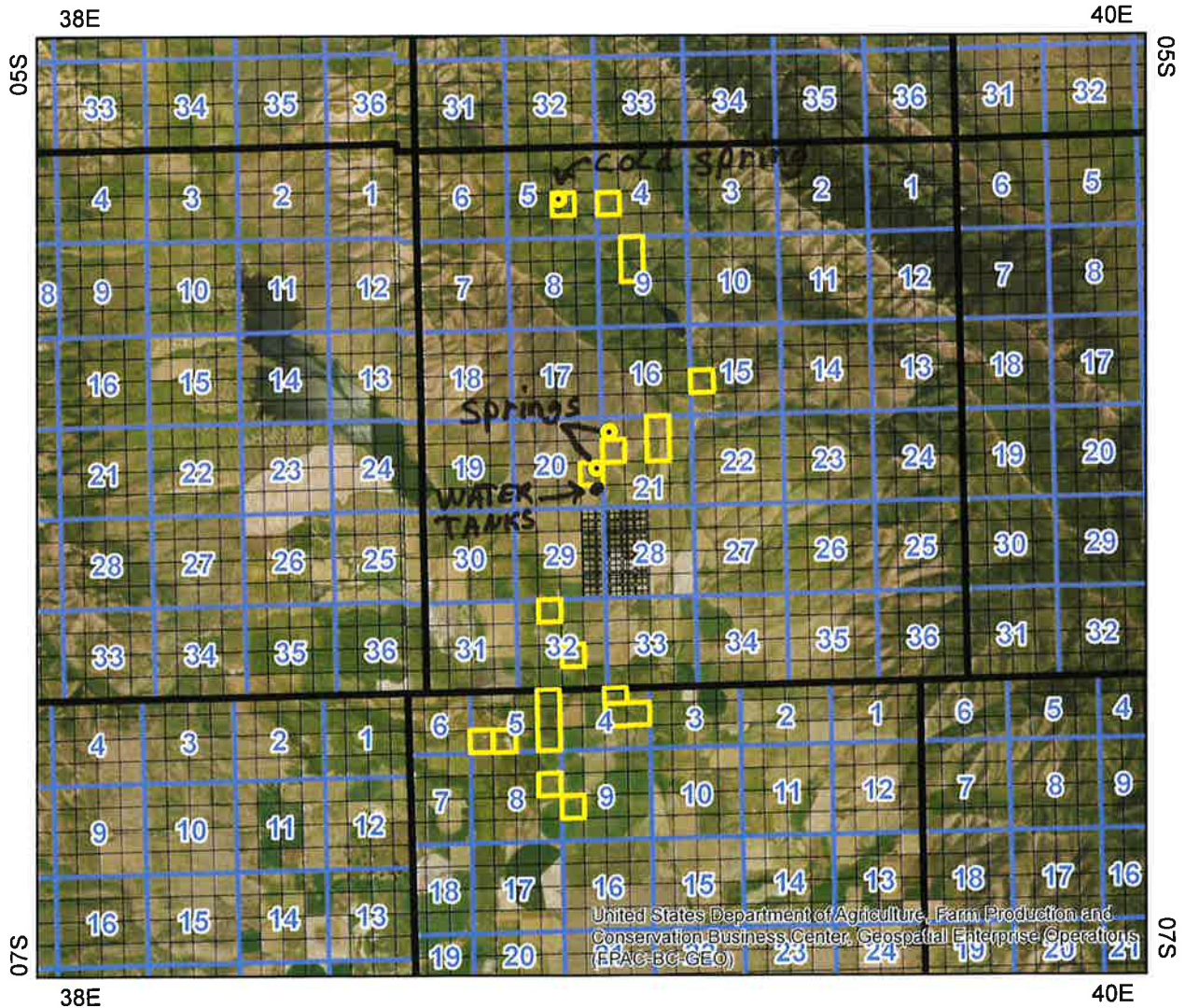
● 42°52'48.95", -111°54'19.98" ±16ft ▲ 5675ft



State of Idaho
Department of Water Resources

Water Right

29-13716
STOCKWATER
SYSTEM DIAGRAM



0 1.25 2.5 5 Miles

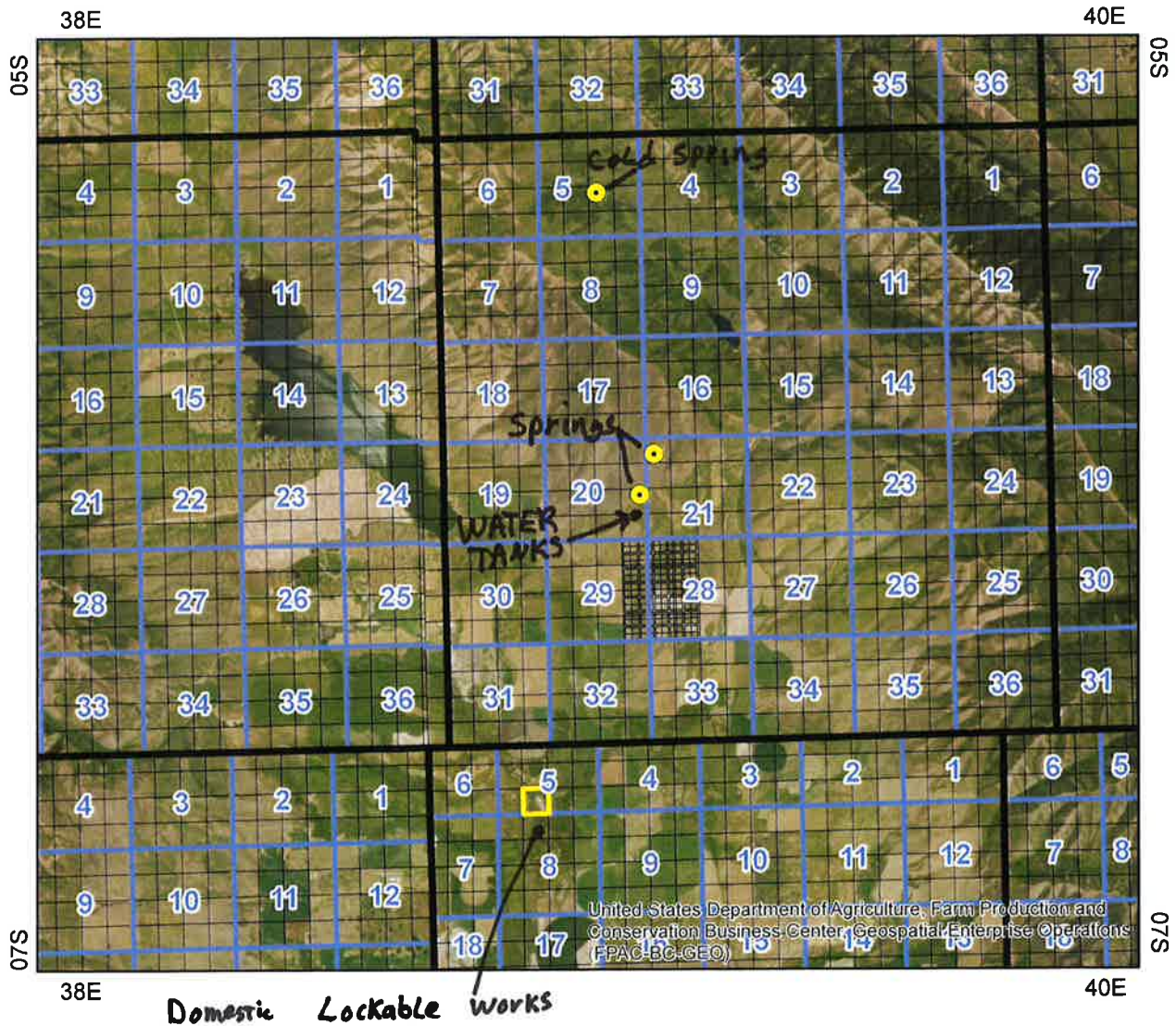
- Place Of Use Boundary
- Point of Diversion
- State Outline
- Townships
- PLS Sections
- Quarter Quarters



State of Idaho
Department of Water Resources

Water Right

29-13716
DOMESTIC
SYSTEM DIAGRAM

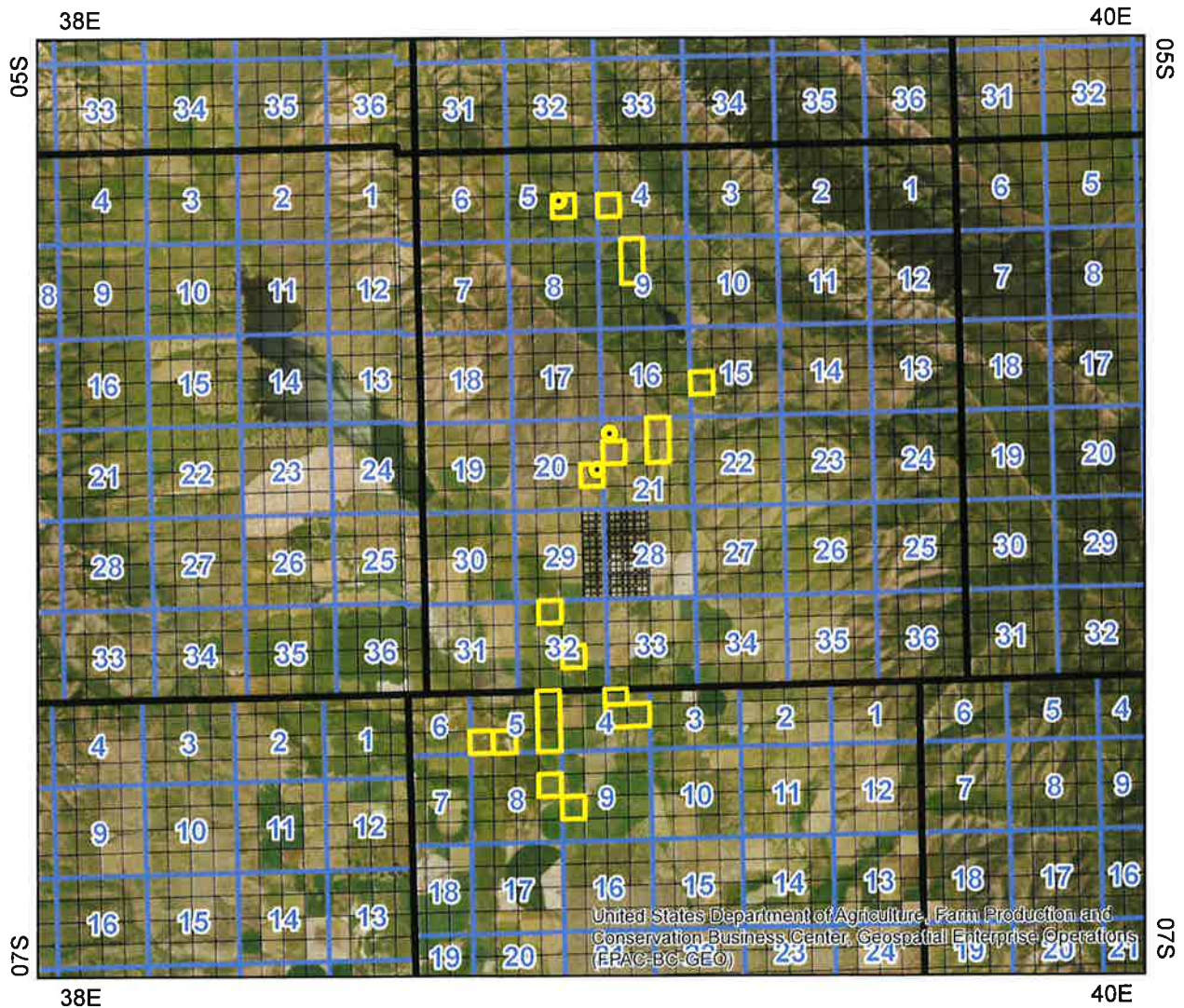


- Place Of Use Boundary
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State of Idaho
Department of Water Resources

Water Right

29-13716
STOCKWATER



0 1.25 2.5 5 Miles

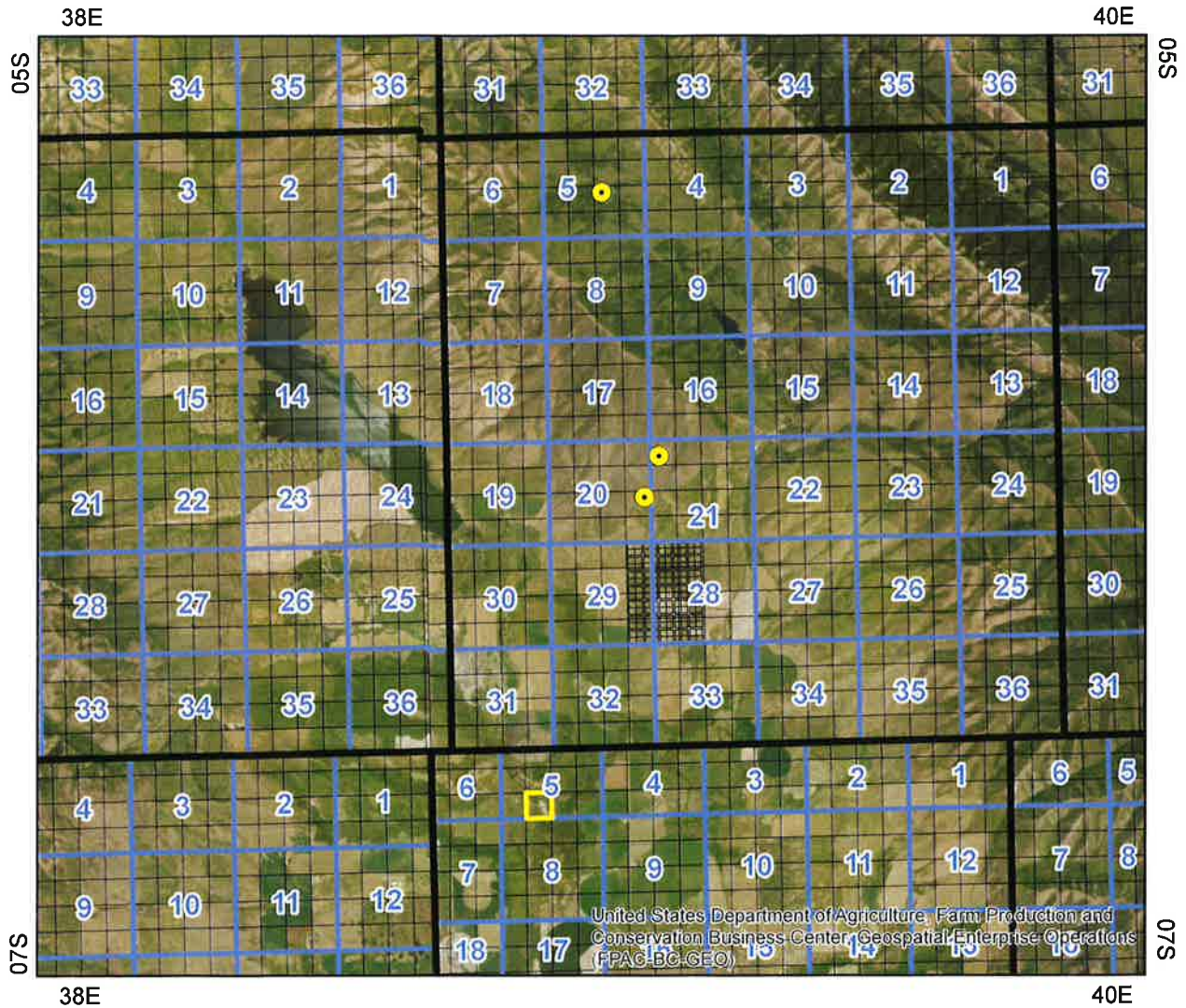
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State of Idaho
Department of Water Resources

Water Right

29-13716
DOMESTIC



0 1 2 4 Miles

- Place Of Use Boundary
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