

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No. 78-12167

1. Owner: United States Dept. of Agriculture Forest Service Phone No. (208) 634-0795

Current Address: 800 W. Lakeside Ave McCall, ID 83638

2. Accompanied by: Liz Reukal EXAM DATE : 7-10-2008

Address: Not Given Phone No: Not Given

Relationship to Permit Holder: Water Quality Technician

3. Source: Groundwater tributary to N/A

B. OVERLAP REVIEW

1. Other water rights with the same place of use: 78-7181 (groundwater diversion for domestic use at Grouse Camp Ground), the USFS desires to use both WRs to provide domestic water to the camp ground, they are located at different point within the CG, not an overlap. No diversion rate, only a volume of 0.10 AF). 78-10399 (stockwater from Goose Creek & Goose Lake), not an overlap.

2. Other water rights with the same point of diversion: None

C. DIVERSION AND DELIVERY SYSTEM

1. Point(s) of Diversion:

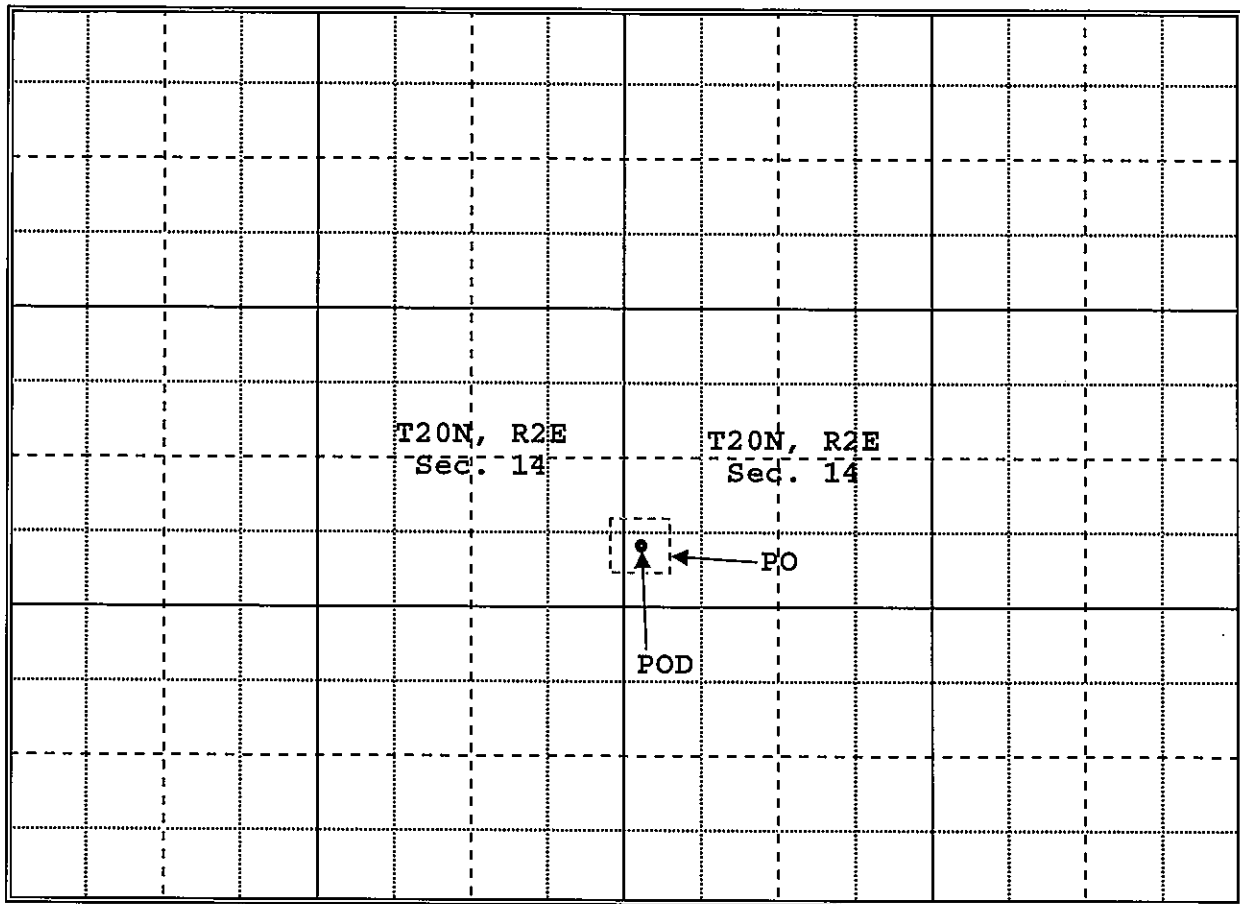
[illegible]

2. Place(s) of Use:

Indicate Method of Determination Aerial Imagery

[illegible]

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



Scale: 1" = 0.72 miles.

☒ 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

4.

Well or Diversion Identification No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
N/A					

*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
N/A						

2. Measurements: N/A

E. NARRATIVE/REMARKS/COMMENTS

I visited the Grouse Campground on July 10, 2008. By pure coincidence I encountered Liz Reukal, Water Quality Technician with USFS who was able to answer all of my questions regarding the well. This is the newest of two wells located at the CG. The intent is for both wells to support the potable water needs of the campers and boat ramp users. There are no storage facilities at either POD, just manual pumps for camper's use.

The CG is snow bound for a majority of the year. Season of use is 7/1-9/15 for WR 78-7181 and 5/1-10/31 for nearby Hard Creek Guard Station. I am recommending a season of use of 5/1-10/31 to more closely reflect actual use.

Have conditions of permit approval been met? ☒ yes ☐ no



New Rotary Handle Well Pump (front)



New Rotary Handle Well Pump (rear)



Existing Lever Arm Pump (near boat ramp)

F. FLOW CALCULATIONS

_____ Additional Computation Sheets Attached

Measured Method: Bucket Fill Method

$$Q = \frac{1}{2} \text{ gallon/12 seconds} = 0.042 \text{ gallons/sec} = 0.0056 \text{ cfs} \approx 0.01 \text{ cfs}$$

G. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation: N/A

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) =$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation Season}) \times 1.9835 =$$

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

2. Volume Calculations for Other Uses:

Potable Use

Assume Actual Season of Use 5/1-10/31 = 183 days

Assume Water Is Used Continuously 4 hours a day

$$\text{Vol.} = (0.0056 \text{ cfs})(14,400 \text{ s/day})(183 \text{ days})(1/43560 \text{ ac/sf})$$

$$\text{Vol.} = 0.34 \text{ ac-ft/year}$$

H. RECOMMENDATIONS

1. Recommended Amounts

Beneficial Use	Period of Use		Rate of Diversion Q (cfs)	Annual Volume V (afa)
	From	To		
	5/1	10/31	0.01	0.34

Totals: 0.01 0.34

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 (season of use)

I. AUTHENTICATION

Field Examiner's Name Mathew Weaver Date: August 26, 2008

Reviewer _____ Date _____

SEAL

Specific Questions to be answered at time of Field Exam

1. Does overlap of use exist between 78-12167 & 78-7181? To be used in concert w/ new WR.
 - a. Do they have separate diversion points (wells)? Yes
 - b. Does 78-7181 cover the entire camp ground? Yes
 - c. Does 78-7181 allow for irrigation? No 78-12167 excludes this use.
 - d. WR 78-7181 has no diversion and 0.10 AF of storage, what is the storage device (pond, tank, etc.) and where is it? No storage use, Diversion Rate $Q \ll 0.01$ cfs
2. Does place of use (camp ground) match permit description? No it matches the aerial photography which suggests that POU includes NWSW, SWSW Section 13 and the NESE, SESE of Section 14, T20N, R02E.
3. Season of use on permit is 01/01 to 12/31, is this the true season of use? No CG is snow bound for a majority of the year. Season of use is 7/1 – 9/15 for WR 78-7181 and 5/1 – 10/31 for near by Hard Creek Guard Station. I am recommending a season of use of 5/1-10/31 to more closely reflect actual use.
4. Verify number of camp sites and group area. Are there any other uses, i.e. boat ramp? 22, 1, boat ramp users can also access the wells.
5. What is the metal tag number of the new well? Not verified.

$$\begin{array}{l} 45^\circ 4.045' = 45.0674 \\ 116^\circ 10.025' = 116.1671 \end{array} \left. \begin{array}{l} \\ \end{array} \right\} \begin{array}{l} \text{ZON, ZE,} \\ \text{S13, Bm} \end{array}$$

5/1 - 10/31 - GUARD STATION

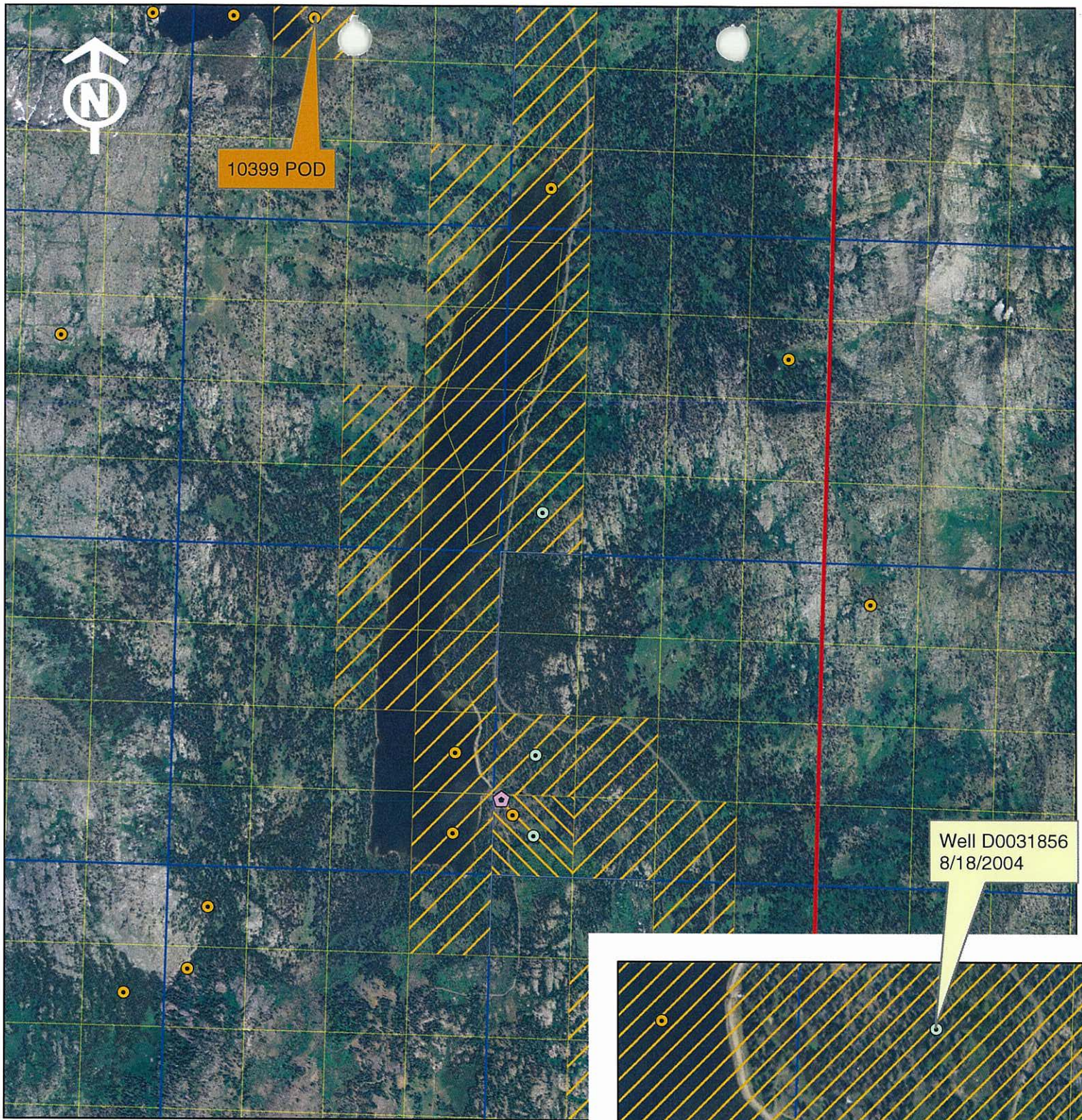
78-12167 GROUSE CR. CG
7-10-08 FIELD EXAM

$$\begin{array}{l} Q = 1 \text{ POT/12 SEC} \\ 64 \text{ OZ/12 SEC} \\ 0.5 \text{ GAL/12 S} = 0.042 \text{ G/S} \end{array}$$

GPS PCD: N - 45-04.045
W - 116-10.025
SINGLE HAND PUMP
ELEV = 6406'

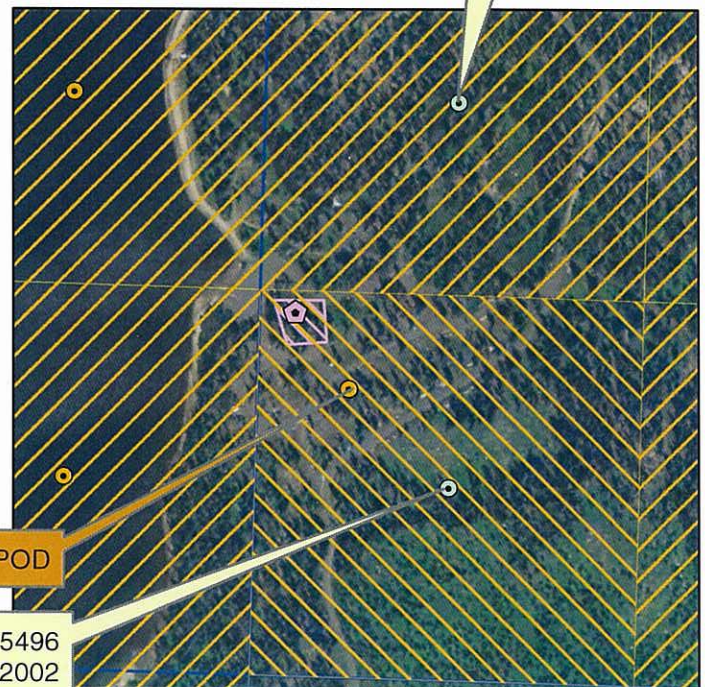
LIZ REUKAL; H2O Q

NOTES: CG 22 UNITS
ONE OTHER HAND PUMP @
WELL

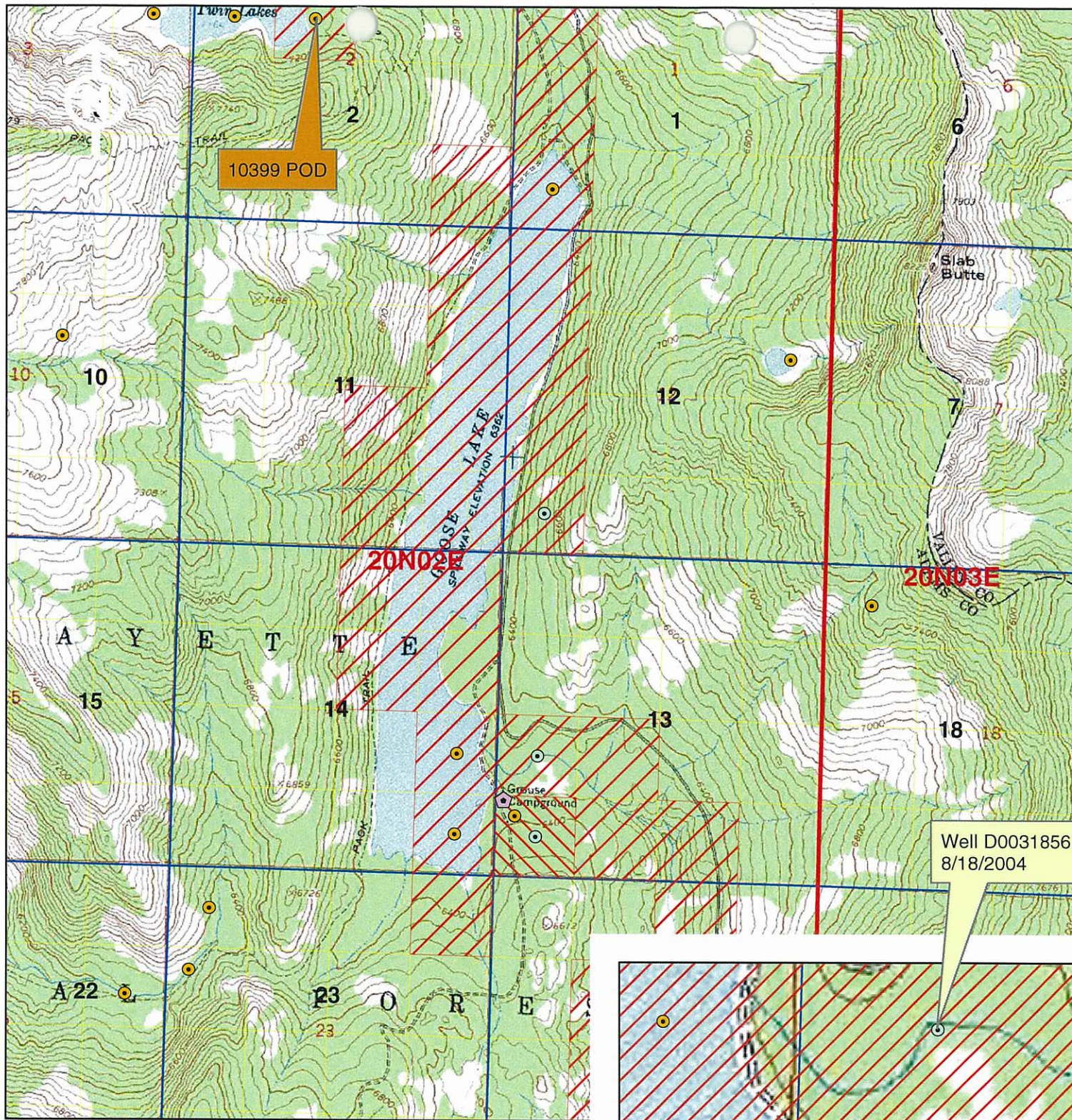


Legend

- Active Right POD
- Wells
- ⬡ Permit POD
- ▨ 78-7181 Right POU
- ▨ 78-10399 Right POU
- ▨ Permit POU
- ▭ Township/Range
- ▭ Sections
- ▭ QQ



USDA FS WR 78-12167
Field Exam Exhibit Map



Legend

- Active Right POD
- Wells
- ⬢ Permit POD
- ▨ 78-7181 Right POU
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- ▭ Township/Range
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- ▭ QQ

USDA FS WR 78-12167 Field Exam Exhibit Map

