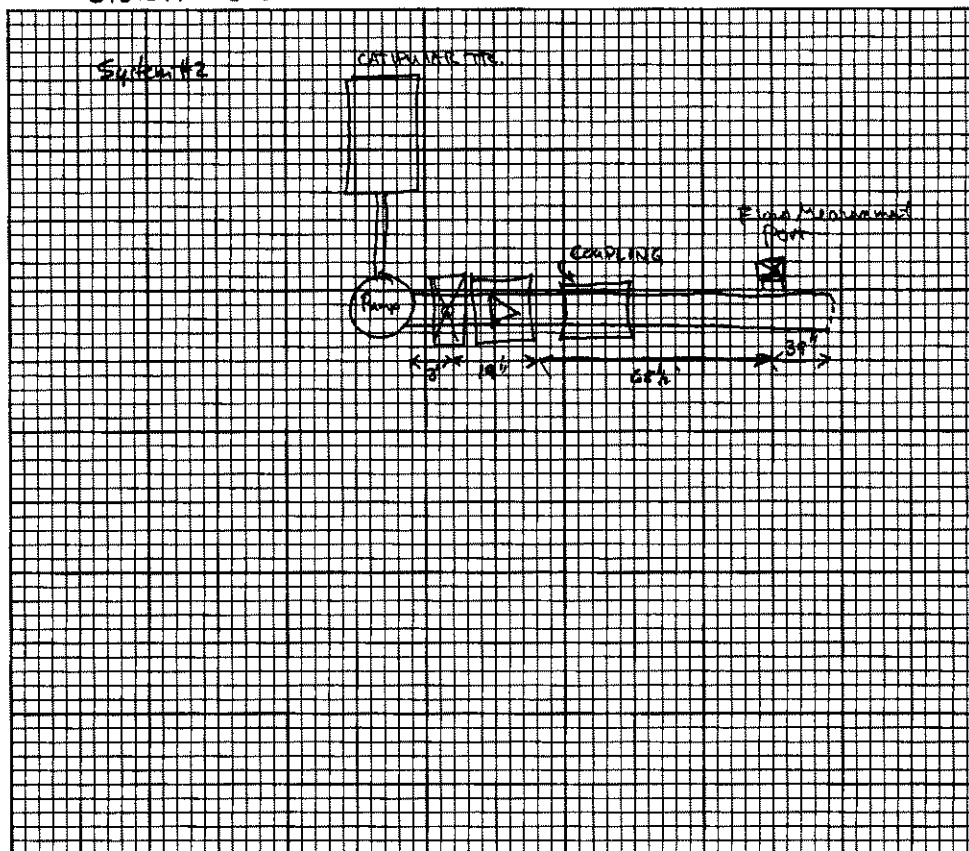


[illegible]

10. Other water rights on these lands N/A
11. Other water right diverted from same p.d. Permit # 22-7352
12. **Diversion and Delivery System Diagram:** Indicate all major components and distances between components. Indicate ditch size/pipe i.d. as applicable. Indicate on systems with measurement port the distance between the port and the nearest component/pipe bend/restriction both upstream and downstream, and the inside pipe diameter at the measurement port. On multiple diversion systems indicate how diversion systems are connected.

SYSTEM #1 SUBMERSIBLE



13. ☒ Photo of Diversion & System Attached

☐ Aerial Photo of Place of Use Attached
or Map of Irrigated Acreage Attached

14. Remarks _____

15. 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

16. Examiner's/Consultant's Signature Keith C. Wilson Date 24 June 1984

Consultant's License Number _____

IDWR Director's Authorization to Conduct

Beneficial Use Examination _____

Date



STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
LICENSING REPORT

RECEIVED
MAY 12 1988

22-7347
Permit No.

Department of Water Resources

1. Measurement Calculations

- a) Field Measurement Calculations (Include theoretical capacities and system capacity)

Flow From P.D. # 2 measured with Annubar & Manometer

$$Q = 3.85 (i.d.)^2 \sqrt{Y}$$

$$i.d. = 11.8"$$

$$Y = 15.2"$$

$$Q = 3.85 (11.8)^2 \sqrt{15.2} = 2,090 \text{ gpm} = 4.66 \text{ cfs}$$

Flow From P.D. # 1 measured with pitot gauge @ rainbirds

Ave. pressure for 33 rainbirds = 39 psi.

$$Q \text{ (one } \frac{5}{32} \text{ nozzle @ 39 psi)} = 4.55 \text{ gpm}$$

$$33 \text{ birds} \times 4.55 \text{ gpm} = 150 \text{ gpm} = 0.33 \text{ cfs}$$

$$0.02 \text{ cfs/ac} \times 197 \text{ ac.} = 3.94 \text{ cfs}$$

$$Q_{\text{total}} = 4.99 \text{ cfs}$$

Recommend licensing for 3.94 cfs

- b) Volume Calculations for Irrigation:

$$V_{i.r.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 197 \times 3.0 = 591$$

$$V_{d.r.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation Season}) \times 1.9835 = 3.94 \times 122 \times 1.9835 = 953.4$$

$$V = \text{Smaller of } V_{i.r.} \text{ and } V_{d.r.} = 591$$

- c) Volume Calculations for Other Uses:

2. Overlap Review

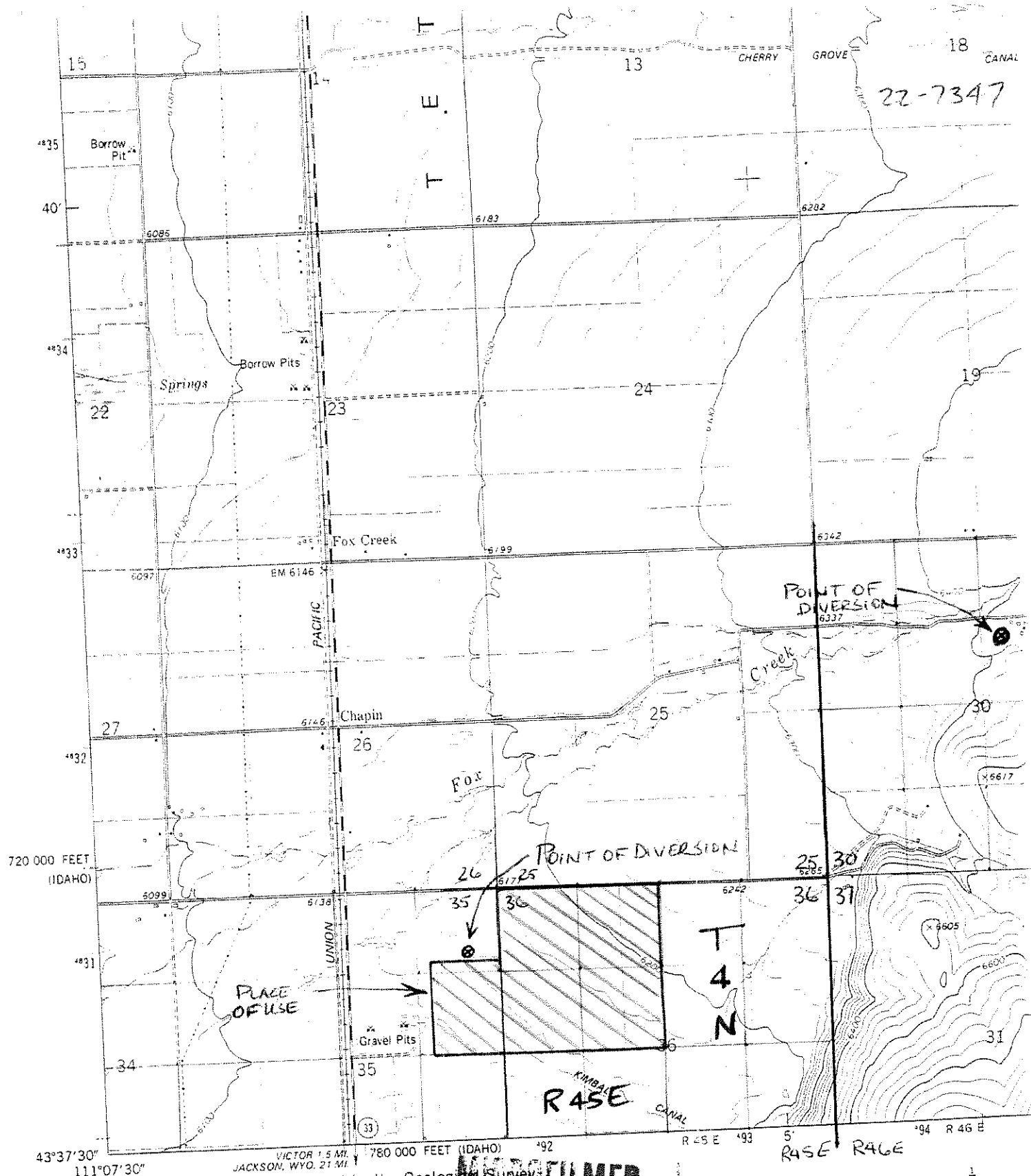
- a) Other water rights with same place of use: N/A

- b) Other water rights with same point of diversion: Permit # 22-7352

- c) Analysis: R 17 (22-7352) (4.99 cfs)

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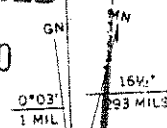
Mapped, edited, and published by the Geological Survey
Control by USGS and NOS/NOAA

Topography by photogrammetric methods from aerial
photographs taken 1973. Field checked 1974. Map edited 1978

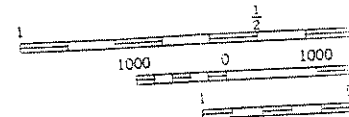
Projection: Idaho coordinate system, east zone
(transverse Mercator)
10,000-foot grid ticks based on Idaho coordinate system,
east zone and Wyoming coordinate system, west zone
1000-meter Universal Transverse Mercator grid ticks,
zone 12, shown in blue. 1927 North American datum

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UTM GRID AND 1978 MAGNETIC NORTH
DECLINATION AT CENTER OF SHEET



CON
NATION

THIS MAP COMPI

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
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Analysis: $\frac{4.99 \text{ cfs}}{422 \text{ ac}} = 0.0118246 \text{ cfs}$ Diversion rate for
entire system.

SINCE BOTH EXAMS FOR 22-7347 & 22-7352

Recommend that:

$$22-7347 - 197 \text{ ac} \times 0.0118246 = 2.33 \text{ cfs}$$

$$22-7352 - 225 \text{ ac} \times 0.0118246 = 2.66 \text{ cfs}$$

Total 4.99 cfs

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MAY 29 1990

Keith C Wilson
14 March 1990

RECOMMENDED AMOUNTS

3.	Permit No.	Priority	Amount	App. Date	Date Proof Submitted	System Capacity
	22-7347					499

4. Permit Holder: _____

Address: _____

5. Source: _____ tributary to _____

6. Beneficial Use	Period of Use		Rate of Diversion Q (cfs)	Annual Volume V (afa)
	From	To		
IRRIGATION	6/1	10/1	3.94 cfs	591 afa

Allowable Maximums: 3.94 cfs 591 afa

7. Point(s) of Diversion:

[illegible]

8. Place(s) of Use

[illegible]

9. Recommended Conditions/Remarks: R17 (22-7352) (4.99 cts)

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MAY 29 1990

10. 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

11. Examiner's Signature Keith C. Wilson

Date 28 Feb 1986

Checked in Regional Office by Gary Spackman

Date 3-5-86

Approved in State Office by _____

Date 4/21/89

22-7347

J-11

