

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

29-07774

A. GENERAL INFORMATION

Permit No. 29-07774

1. Owner: Lorna G Obermayer % Martin Hackworth

Phone No. 208 237-7918

Current Address: 8759 1/2 W. Baton Rd, Pocatello 83204

2. Accompanied by: Martin Hackworth

EXAM. DATE: 3 Aug 1998

Address: _____ Phone No. _____

Relationship to Permit Holder: _____

3. Source: Spring tributary to _____

B. OVERLAP REVIEW

1. Other water rights with same place of use: _____

☐ Copies Attached

2. Other water rights with same point of diversion: _____

☐ Copies Attached

☐ Copies of Field Exam's Attached

C. SYSTEM DESCRIPTION

1. **Diversion System Diagram:** Indicate all major components and distances between components. Indicate weir size/ditch size/pipe i.d. as applicable. ☐ Alternative diagram attached

See attached Photos

Scale: 1" = _____

2. ☐ Copy of U.S.G.S. Quadrangle Attached
Showing location(s) of point(s) of diversion and
place(s) of use (required).

☐ Photo of Diversion and System Attached

(required for all but single household domestic groundwater, and stockwater.

☐ Aerial Photo Attached
(required for irrigation of 10 acres or more).

System Description (continued)

3. **Narrative:** Description (As operating at time of measurement. Indicate pressure, number of sprinklers, etc.)

Spring/diversion dam w/ distribution line w/ overflow and gravity sprinklers (4) and drip system (40 - 2 gal/hr nozzles) ; Stock water (2 horses, 2 goats, 4 dogs) @ time of Exam

Domestic water (in-house use) supplied by well.

☐ See Remarks on page 4 for continuation

4.

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

*Code to correspond with No. on map and aerial photo

5. **Point(s) of Diversion:**

Ident. No.	Gov't. Lot	¼	¼	¼	Sec.	Twp.	Rge.	County	Method of Determination/Remarks
		SE	SW	NE	32	6S	3SE	Bannock	On Site/PSA Aerial/USGS Quad

6. **Place(s) of Use:**

Indicate Method of Determination On Site PSA Aerial

Twp.	Rge.	Sec.	NE¼				NW¼				SW¼				SE¼				Totals
			NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	
6S	3SE	32							3										
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Do not use this space

Do not use this space

D. FLOW MEASUREMENTS

☐ Additional Data Sheets Attached

1.

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date

2. Measurements:

$4\frac{5}{32}" @ 27\frac{1}{2} lb average; 40 2 gal/hr Nozzle$

E. FLOW CALCULATIONS

☐ Additional Computation Sheets Attached

1. Measured Method:

$5\frac{1}{32}" @ 27\frac{1}{2} lb = 3.83 gpm/nozzle \times 4 = 15.3 gpm$ $5\frac{1}{32}" @ 25 psi = 3.64 gpm$
 $5\frac{1}{32}" @ 30 psi = 4.01 gpm$

$40 @ 2 g/hr = 80 g/hr = 1.33 gpm$ Total $Q = 15.3 gpm + 1.33 gpm = 16.63 gpm = 0.04 cfs$

2. Alternate Method for Checking Purposes:

$Q_{LIMITED} BY Permit 2 ac \times 0.02 cfs/a = 0.04 cfs$

F. PUMP EFFICIENCY DATA (Optional)

Discharge Pressure: _____ psi $\times 2.31 =$ _____ ft (1); Dynamic pumping level: _____ ft (2)

Total Head: (1) + (2) = _____ (3)

Flow rate: _____ cfs (4)

Water HP: (3) $\times$ (4) $\div 8.8 =$ _____ (5)

Meter Input KW: $3.6 \times$ _____ KH $\times$ _____ CTR or _____ MULT $\times$ _____ PTR $\times$ _____ N/ _____ T = _____ (6)

Meter Input HP: (6) $\times 1.34 =$ _____ (7)

Panel Input KW: _____ Ave PF $\times$ _____ Ave Volts $\times$ _____ Ave Amps $\times .001732 =$ _____ (6)

Panel Input HP: (6) $\times 1.34 =$ _____ (7) Efficiency: (5)/(7) $\times 100 =$ _____ %

G. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

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

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

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

2. Volume Calculations for Other Uses:

$U_{stock} = (24 \text{ hours}) (0.0134) = 0.3216$

H. REMARKS AND OVERLAP REVIEW ANALYSIS

Limit to 2 ac irrigation

I. RECOMMENDATIONS

1. Recommended Amounts

Beneficial Use	Period of Use		Rate of Diversion Q (cfs)	Annual Volume V (afa)
	From	To		
IRRIGATION	3/15	8/15	0.04	8.0
STOCKWATER	1/1	12/31	0.04	0.3
Totals:			0.04	8.3

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

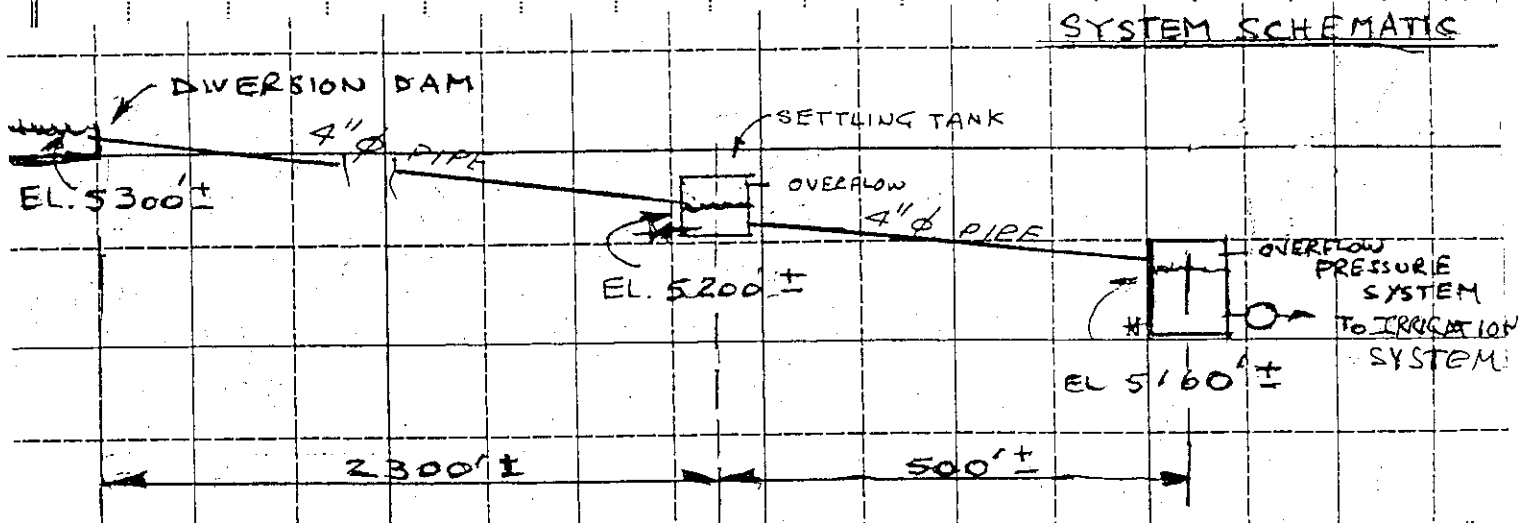
J. AUTHENTICATION

Field Examiner's Name Keith C Wilson
Signature Keith C Wilson
Certification Date _____
Field Report Preparation Date _____

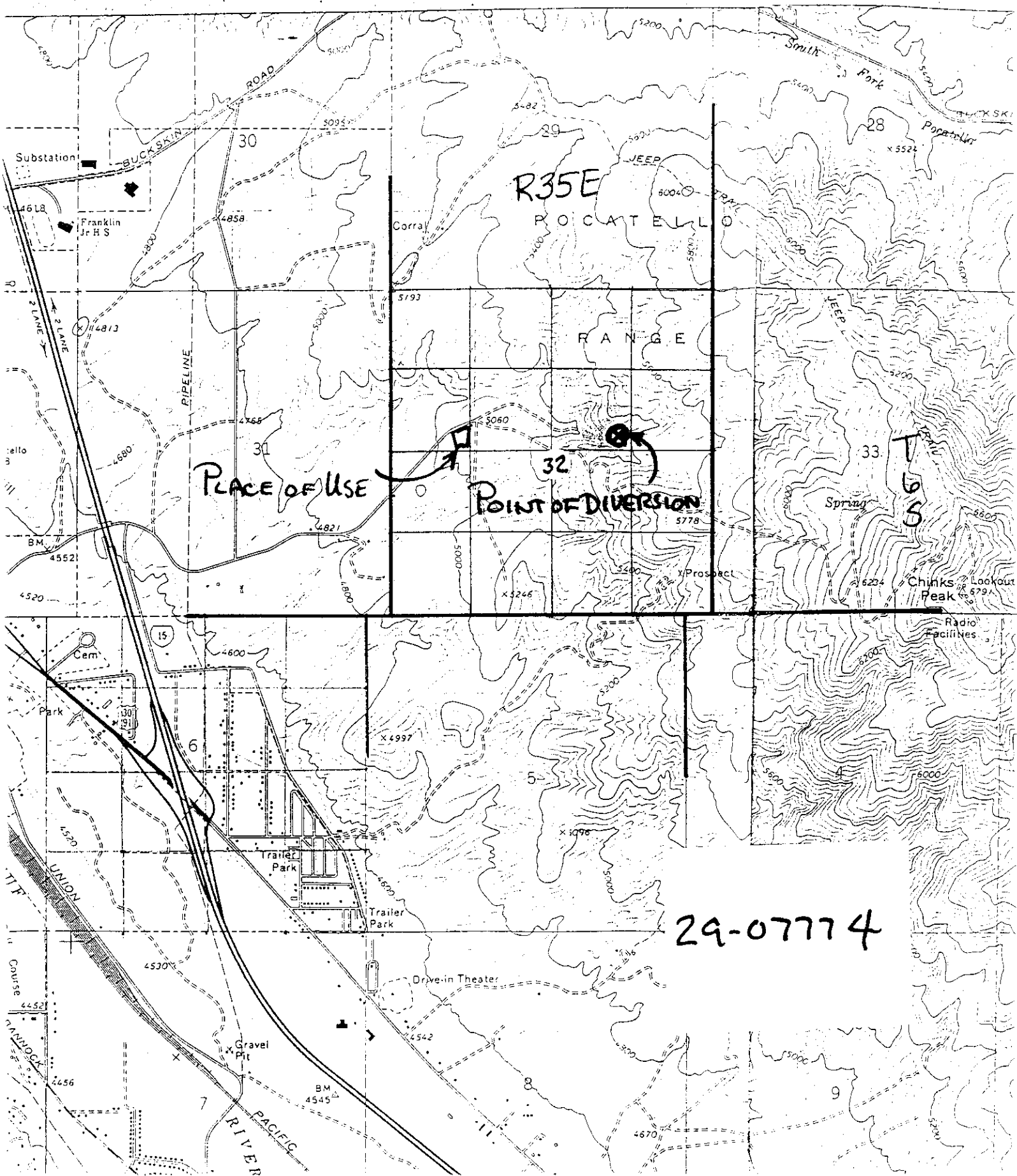
CONSULTANT SEAL

- K. Licensing recommendation shall be prepared by an Idaho Department of Water Resources employee on a computer printout attached hereto.

SYSTEM SCHEMATIC



PERMIT # 29-07774



29-07774

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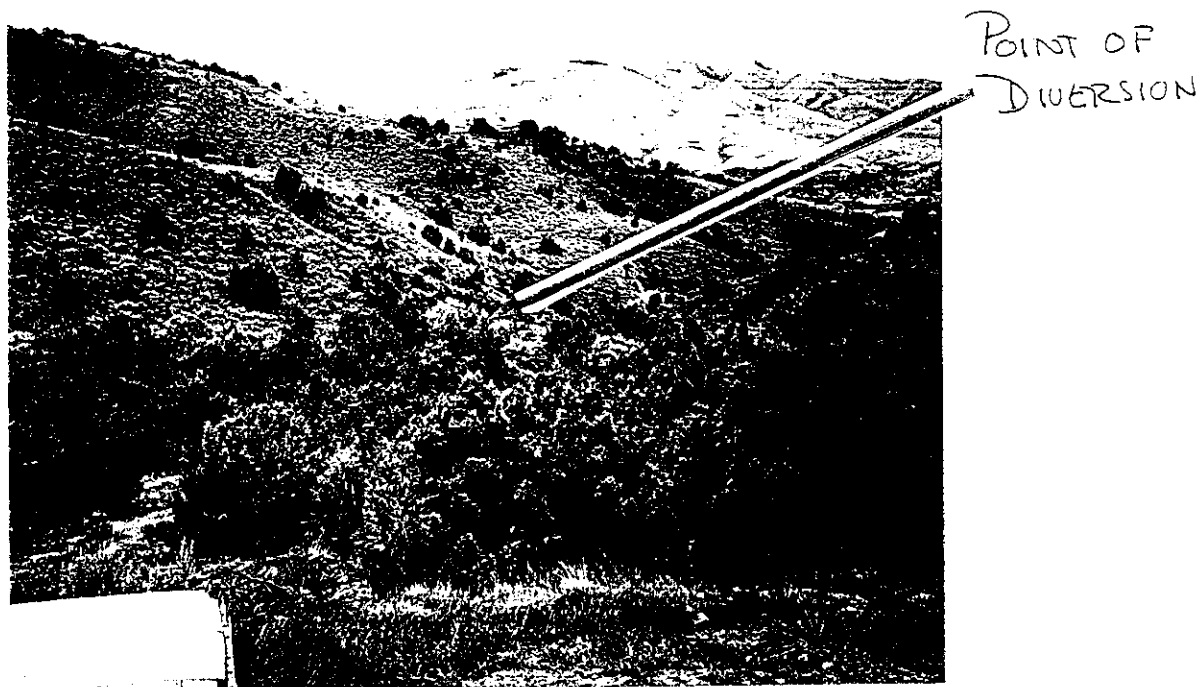
COLLECTION BOX

PLACE OF USE

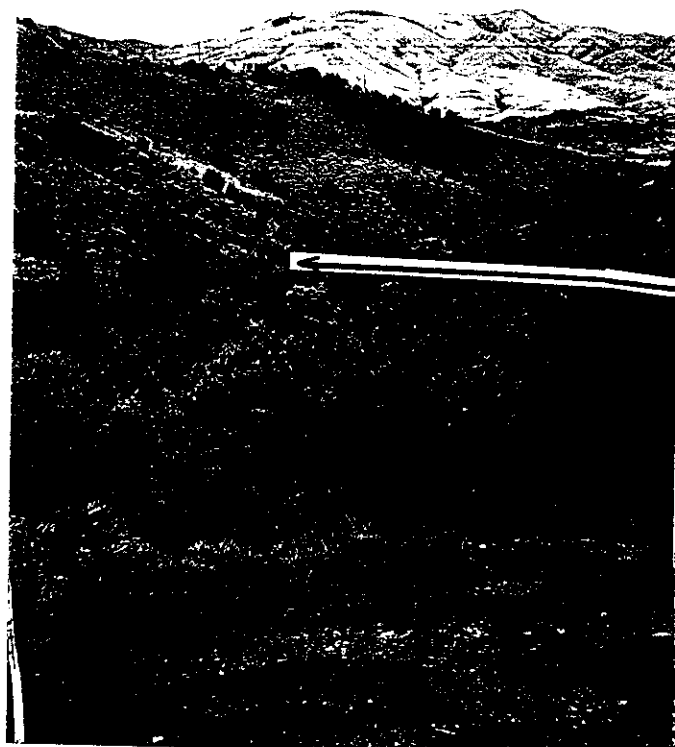
32
POINT OF DIVERSION

29-07774

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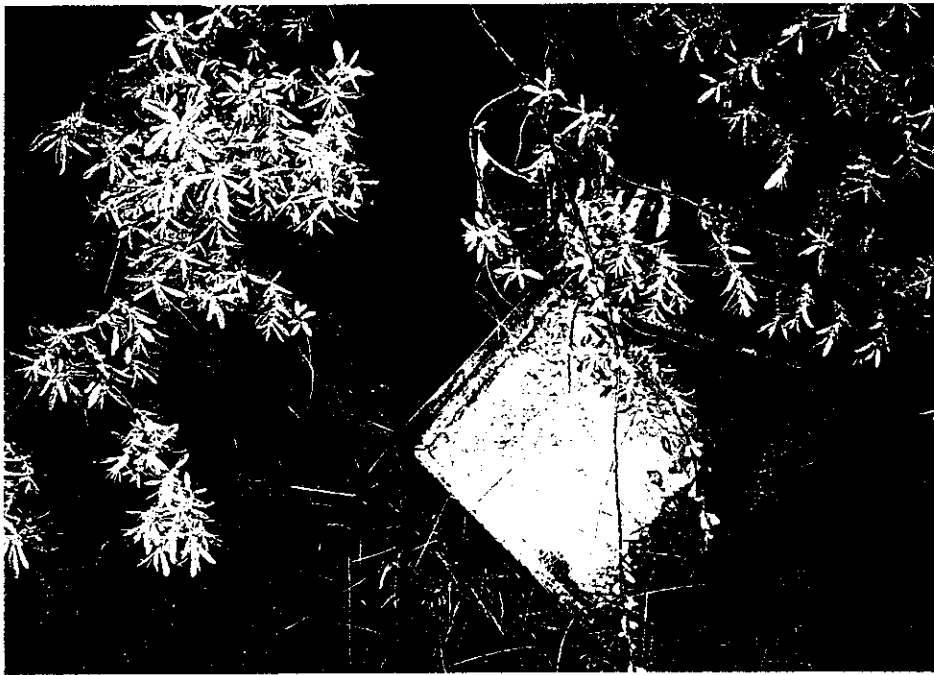
29-7774



POINT
OF
DIVERSION



29-07774



OVERFLOW

29-07774



PLACE OF
USE



29-07774



PLACE OF USE

29- 07774