

[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" = _____.

_____ 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

*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

2. Measurements: 2 1/2 gallon bucket fills in 4 seconds

E. NARRATIVE/REMARKS/COMMENTS

Springs → 2 gravel filled concrete containment boxes → down PVC pipe to underground containment vault. Vault has an overflow pipe 4" that goes back to portneuf River.

City owns spring, a local motel has a lease on the spring. Motel manager says the motel doesn't use any of the hot water currently from the spring. Manager says the motel owner plans to put in jacuzzi tubs in guest rooms at a future date.

Flow measurements were obtained by putting a 2 1/2 gallon bucket under the overflow pipe. It filled in 4 seconds.

Flows may be low due to drought conditions. Tony Hobson said flows from the spring appear to be fairly consistent. It would be good to measure the flow during a wet year for comparison.

Note: Receipt # C040104 City of Lava Hot Springs for \$50⁰⁰

Max flow for exam fee = 0.20 cfs

Proof submitted for 0.08 cfs

No measuring device

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

F. FLOW CALCULATIONS

____ Additional Computation Sheets Attached

Measured Method:

$$Q_{\text{cfs}} = \left(\frac{2.5 \text{ gal}}{4 \text{ sec}} \right) \frac{60 \text{ sec}}{\text{min}} = 37.5 \text{ gpm} = 0.08 \text{ cfs}$$

$$Q_{\text{LIMITED TO PROOF OF BENEFICIAL USE}} = 0.08 \text{ cfs}$$

G. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{\text{I.R.}} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = \underline{\hspace{2cm}}$$

$$V_{\text{D.R.}} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation Season}) \times 1.9835 = \underline{\hspace{2cm}}$$

$$V = \text{Smaller of } V_{\text{I.R.}} \text{ and } V_{\text{D.R.}} = \underline{\hspace{2cm}}$$

2. Volume Calculations for Other Uses:

$$V_{\text{HEATING}} = 0.08 (315) 1.9835 = 57.9 \text{ a/c}$$

H. RECOMMENDATIONS

1. Recommended Amounts

Beneficial Use	Period of Use		Rate of Diversion Q (cfs)	Annual Volume V (afa)
	From	To		
Heating	1/1	12/31	0.08 cfs	57.9 a/c
Totals:			0.08 cfs	57.9 a/c

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**I. AUTHENTICATION**

Field Examiner's Name

Keith C. Walters

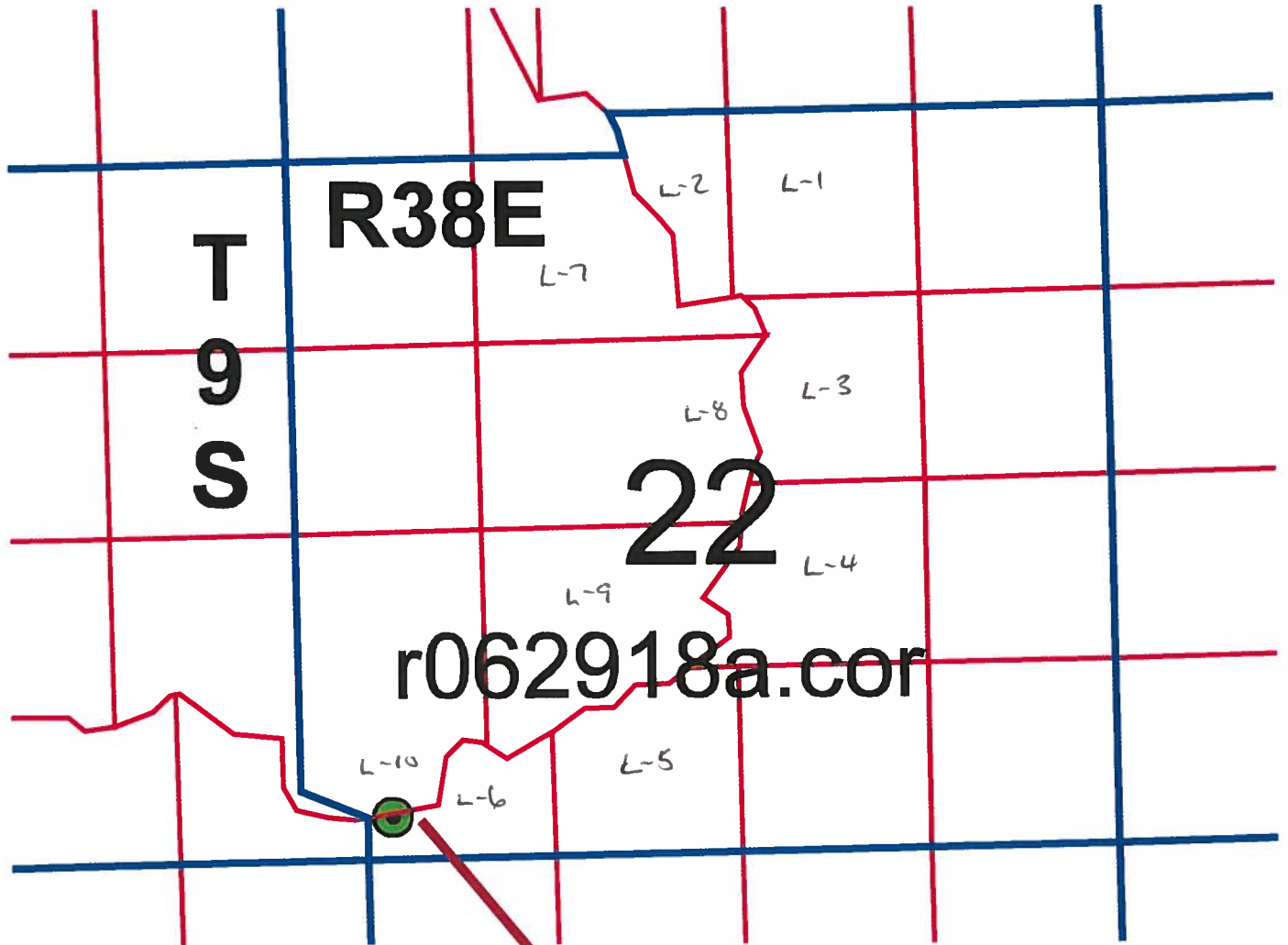
Date

10/23/2001

Reviewer

Date

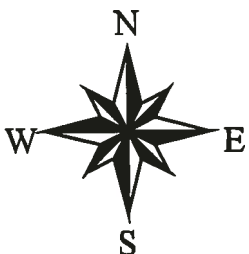
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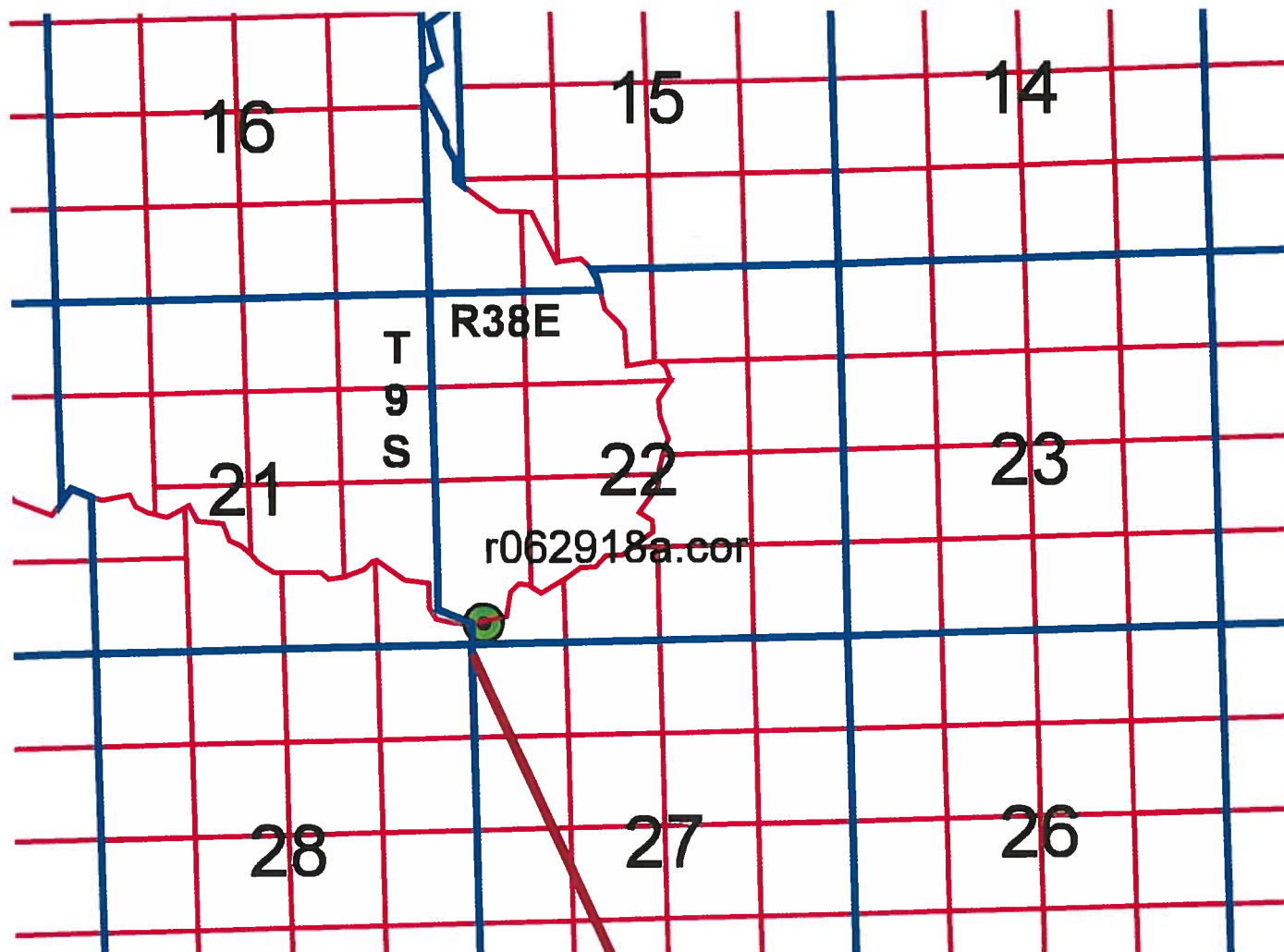


-  S09s38e.shp
-  T09s38e.shp
-  Posnpnt.dbf

Point of
Diversion

29-07936

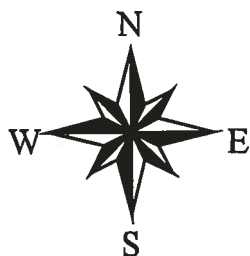




-  S09s38e.shp
-  T09s38e.shp
-  Posnpnt.dbf

Point of
Diversion

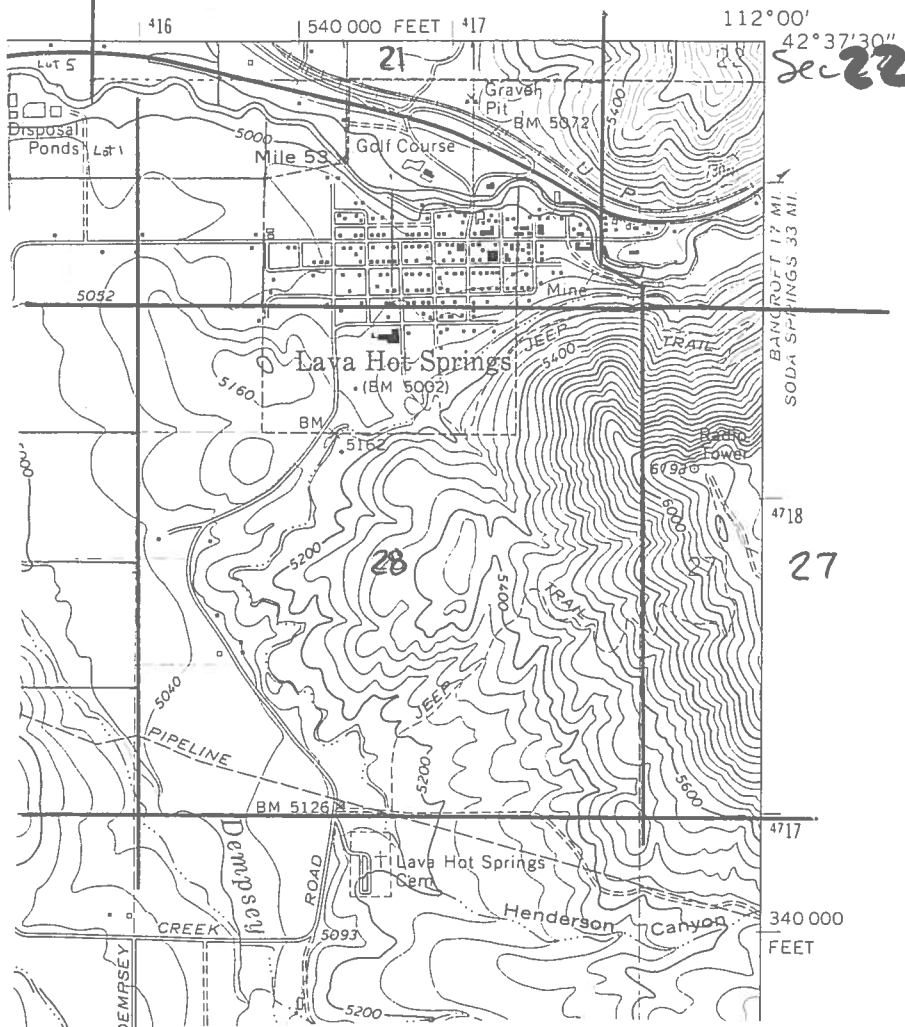
29-7936



R38E

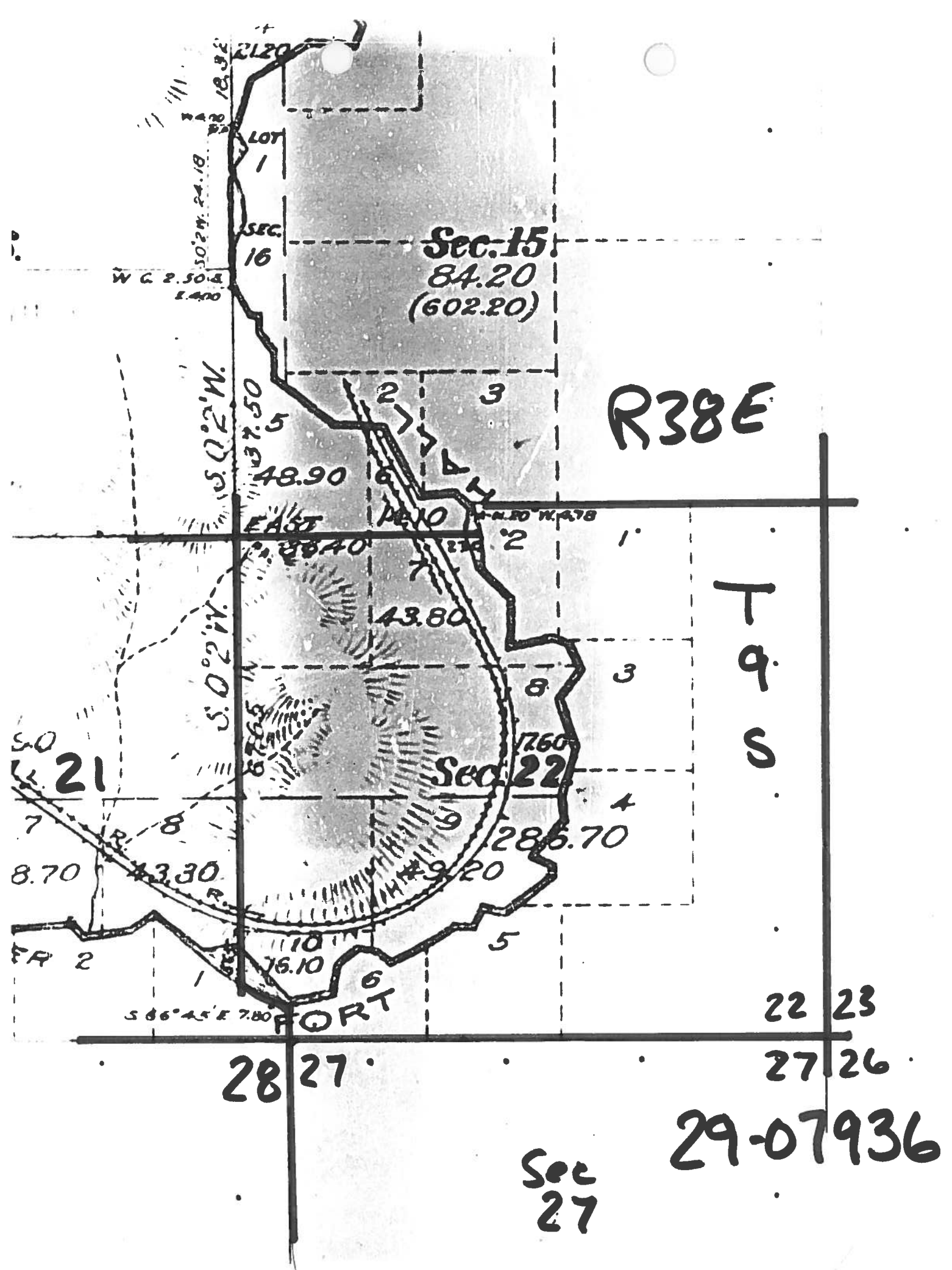
LAVA HOT SPRINGS QUADRANGLE
IDAHO-BANNOCK CO.
7.5 MINUTE SERIES (TOPOGRAPHIC)

3669 III
(BANCROFT 1:62 500)



T9S

29-7936





POD #29-7936 Concrete collection vaults have been filled in with gravel



POD #29-7936



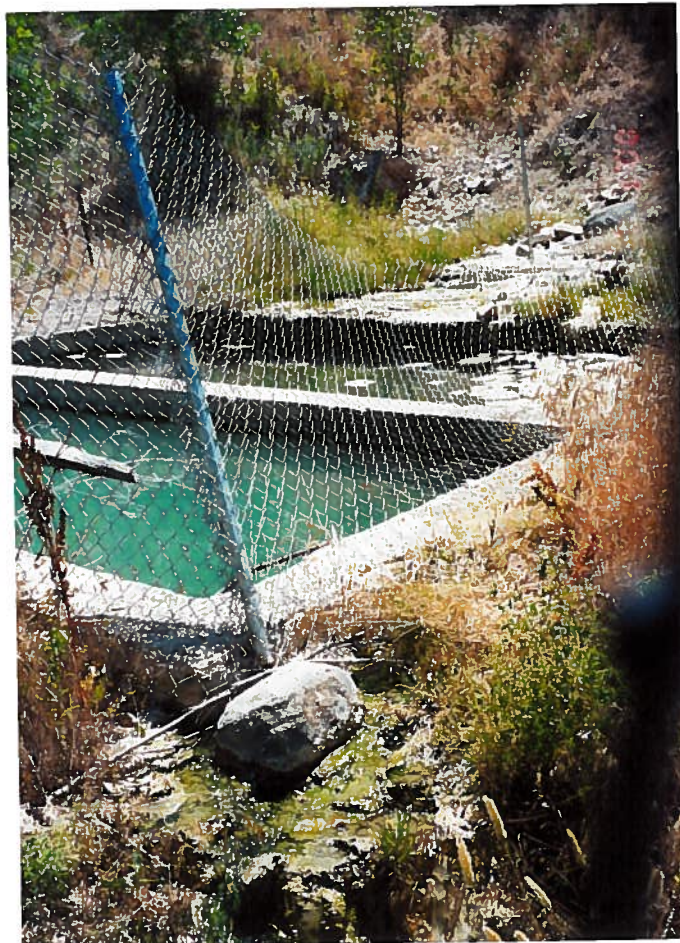
Downstream collection box with overflow pipe to river.
Permit # 29-7936



Overflow into river # 29-7936



POD Chicken soup spring trickles into containment vaults.



Water escaping vaults.

INITIAL EXAM
2000
See Photos taken
6-29-2001

29-7936