

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No. 37-07893B

1. Owner: James P. &/or Joan Canger Phone No. 622-3392 office

Current Address: PO Box 62, Sun Valley, ID 83353

2. Accompanied by: _____ EXAM DATE: 7-19-95

Address: _____ Phone No. _____

Relationship to Permit Holder: _____

3. Source: Groundwater tributary to _____

B. OVERLAP REVIEW

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

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

C. DIVERSION AND DELIVERY SYSTEM

1. Point(s) of Diversion:

Ident No.	Gov't Lot	¼	¼	¼	Sec.	Twp.	Rge.	County	Method of Determination/Remarks
		NE	SW	SE	1	1N	18E	Blaine	

2. Place(s) of Use:

Indicate Method of Determination Dot grid, ASCS photo

TWP	RGE	SEC	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
1N	18E	1												1.0			22.8		24.5
														1.0			22		23 *

* PON updated based on 2004 Aerial photo

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.

Model

Well or Diversion Identification No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
	Franklin	40		Benley	BT 500

*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: Pump rated 640 gpm at 62' head & 50 psi per Walker Water Systems (driller/pump installer). = 1.43 cfs
Well not measured (OFF during exam).

E. NARRATIVE/REMARKS/COMMENTS

Well, submersible motor & pump, buried mainline to wheel line & two handlines. Irrigates two small grain fields.

On 9-7-06, I modified the licensing recommendation based on the greater accuracy of the 2004 Arcview photo.

The only way to accurately measure this system appears to be with a pressure gauge stuck into the sprinkler nozzles, which may not comply with Permit Condition #2. But the theoretical pumping rate is so much higher than what can be recommended at 0.02 cfs/acre, that it is obvious that the recommended rate is available. A watermaster could still require a measuring device in the future. I recommend that the license be issued. There is an SRBA claim on the original permit, so issuing the license will help the SRBA process.

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

✓ Additional Computation Sheets Attached

Allow $\frac{24.5}{23} \text{ gc} \times 0.02 \text{ cfs/gc} = \frac{0.49}{0.46} \text{ cfs}$

1. Volume Calculations for Irrigation:

Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = \frac{22}{24.5} \times 3.5 = \frac{80.5}{85.8} \text{ AFA}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation Season}) \times 1.9835 = 0.49 \times 184 \times 1.9835 = 178.8$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = \frac{85.8}{80.5} \text{ AFA}$$

2. Volume Calculations for Other Uses:

1. Recommended Amounts

Beneficial Use	Period of Use		Rate of Diversion Q (cfs)	Annual Volume V (afa)
	From	To		
Irrigation	4-15	10-15	~~0.49~~ 0.46	~~85.8~~ 80.5
		Totals:	~~0.49~~ 0.46	~~85.8~~ 80.5

☐ 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

Field Examiner's Name J. Stanton Date 9-7-2006

Reviewer _____ Date _____

SEAL

East
Field
Looking
SW



West
Field
Looking
North



Permit
37-7893B
By JE
Stanton
7-19-95



East Field Looking South Along Hwy 75

Surface
Mainline
Going West
To Smaller
Field



Permit 37-7893B
By JE Stanton
7-19-1995

Closeup
View of Well
Looking SW



Permit 27-7893B
By J E Stanton
7-19-1995

GROUNDWATER MEASUREMENT REQUIREMENT ANALYSIS

FILE: 37-7873B
DATE: 7-19-95
BY: J.E. Stenton

THEORETICAL RATE OF FLOW: $Q = \frac{(8.8) \times (H.P.) \times (EFF.)}{TDH}$

Q = CFS
H.P. = Total Brake Horsepower of pumping plant (including booster)
EFF. = Pumping plant efficiency (ASSUME 70% OR 0.70)
TDH = total dynamic head = [(LIFT) + (PSI X 2.31)]
LIFT = depth to water in FEET from land surface to pumping water level
PSI = pumping pressure measured in psi near pump (if open discharge assume zero [0])

$$Q = \frac{(8.8) \times (40) \times (0.70)}{[(62) + (50 \times 2.31)]} = 1.39 \text{ cfs} / 628 \text{ gpm}$$

LIFT FROM:	PSI FROM:	NOTES ON PUMP:
measurement ()	measurement ()	Motor Make, Serial or ID
owner ()	owner (X) Driller	
area estimate ()	estimate ()	Pump Make, Serial or ID, rating
well logs (X)	owner gage ()	
Booster (Y) (N)		

REMARKS

ANNUAL VOLUME ANALYSIS

POTENTIAL Acre Feet/Acre/Annum = $\frac{(\text{DAYS IN SEASON}) \times (1.98) \times (Q)}{(\text{RECOMMENDED ACRES IRRIGATED})}$

(season)	(days)	
3/15 - 11/15	246	POTENTIAL = $\frac{(\dots) \times (1.98) \times (\dots)}{(\dots)}$
4/1 - 11/1	215	
4/15 - 10/15	184	
3/1 - 12/1	276	

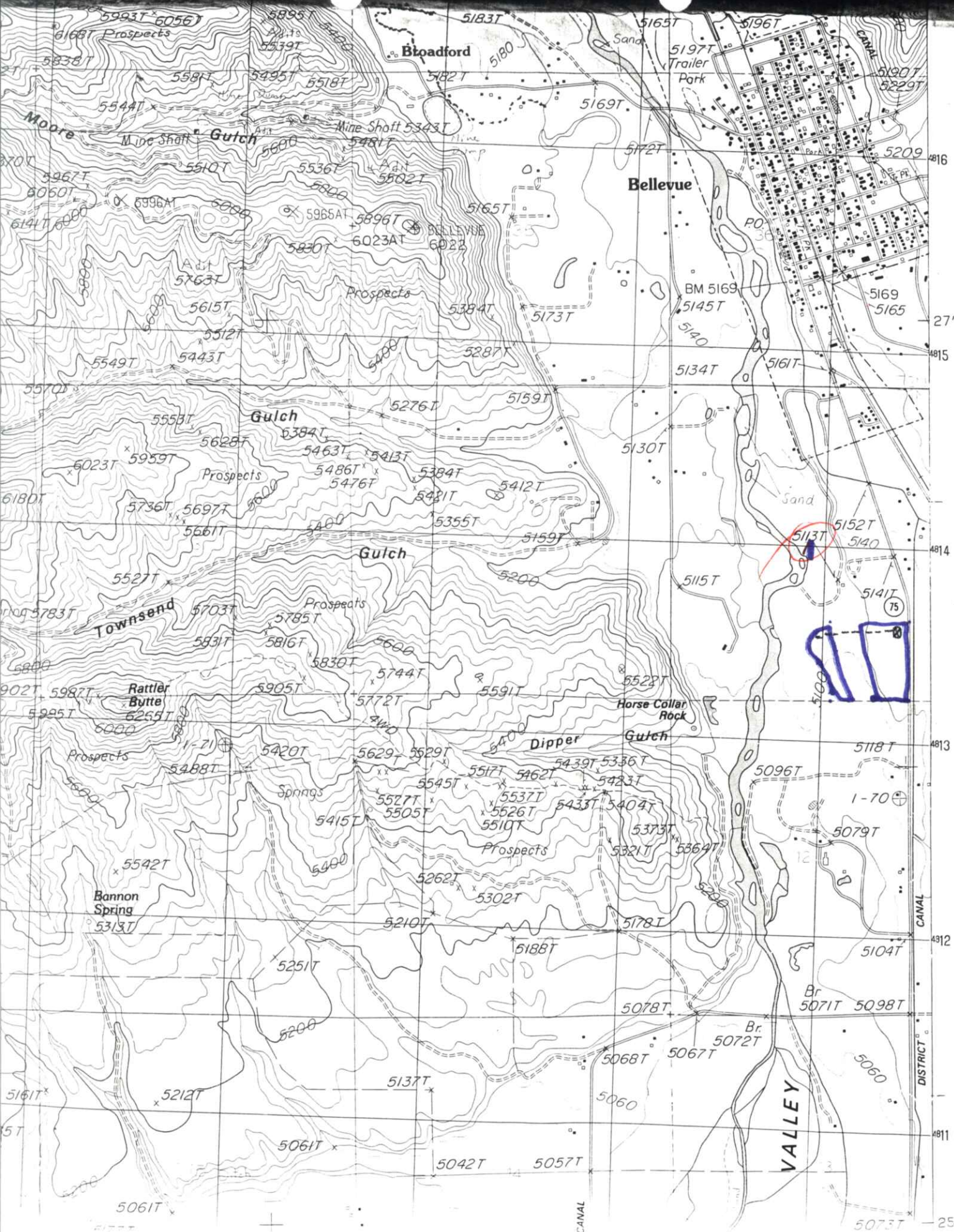
POTENTIAL =

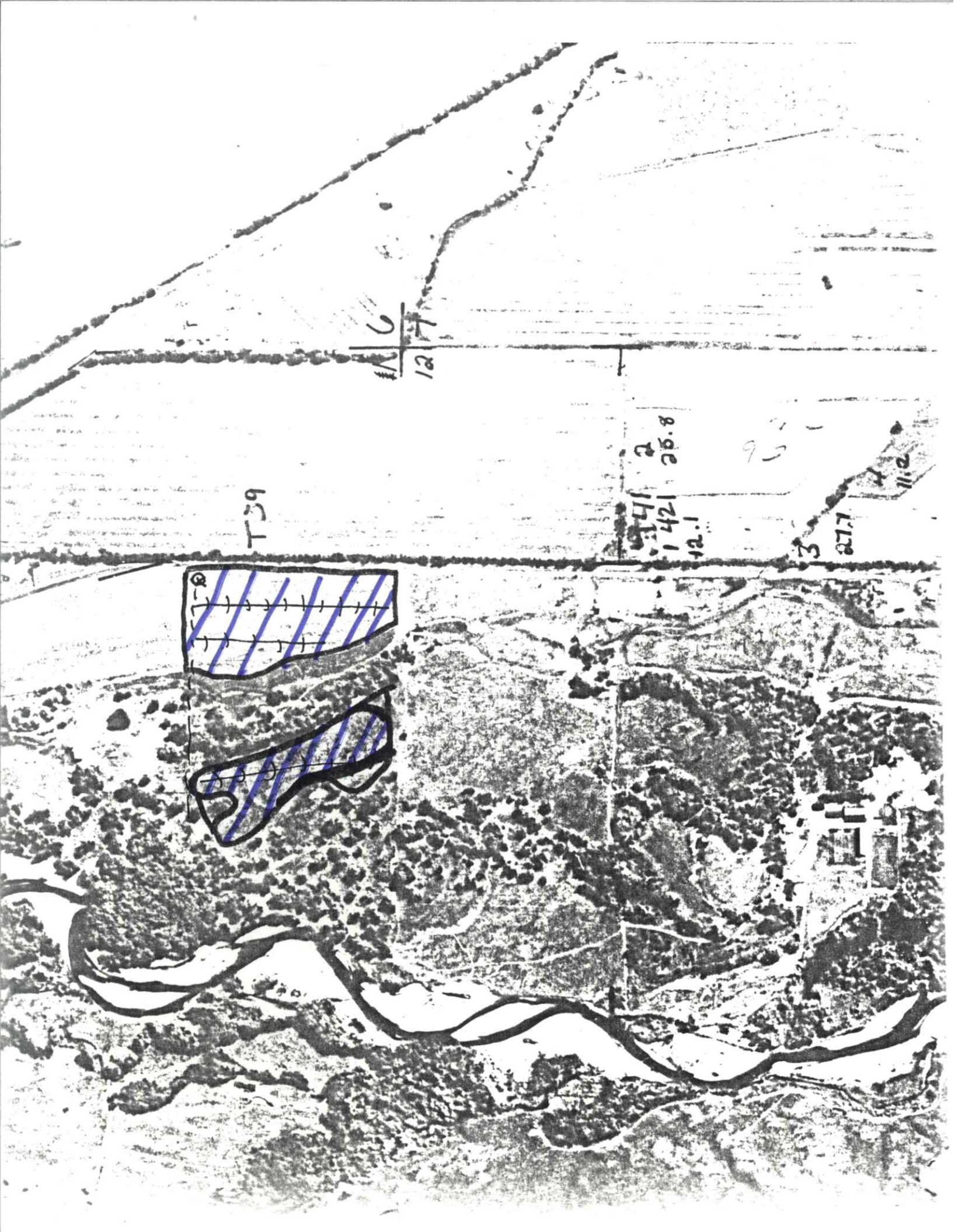
REQUIRED Acre Feet/Acre/Annum =
(AF/Ann/Ac irrigation requirement from chart for area)

NOTE that this is NOT Consumptive use

IF POTENTIAL IS GREATER THAN REQUIRED THEN NO MEASUREMENT NECESSARY ()

IF POTENTIAL IS LESS THAN REQUIRED THEN MEASUREMENT IS NECESSARY ()





11	6
12	7

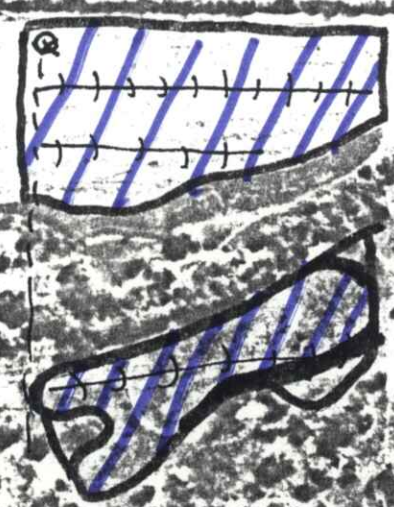
T39

141	2
142	25.8
12.1	

9.5

3	27.7
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11.2





POD

POU
Permit 37-7893B
Conger

SW/SE Sec. 1
T. 1N R. 18E

FORWARD WHITE COPY TO WATER RESOURCES