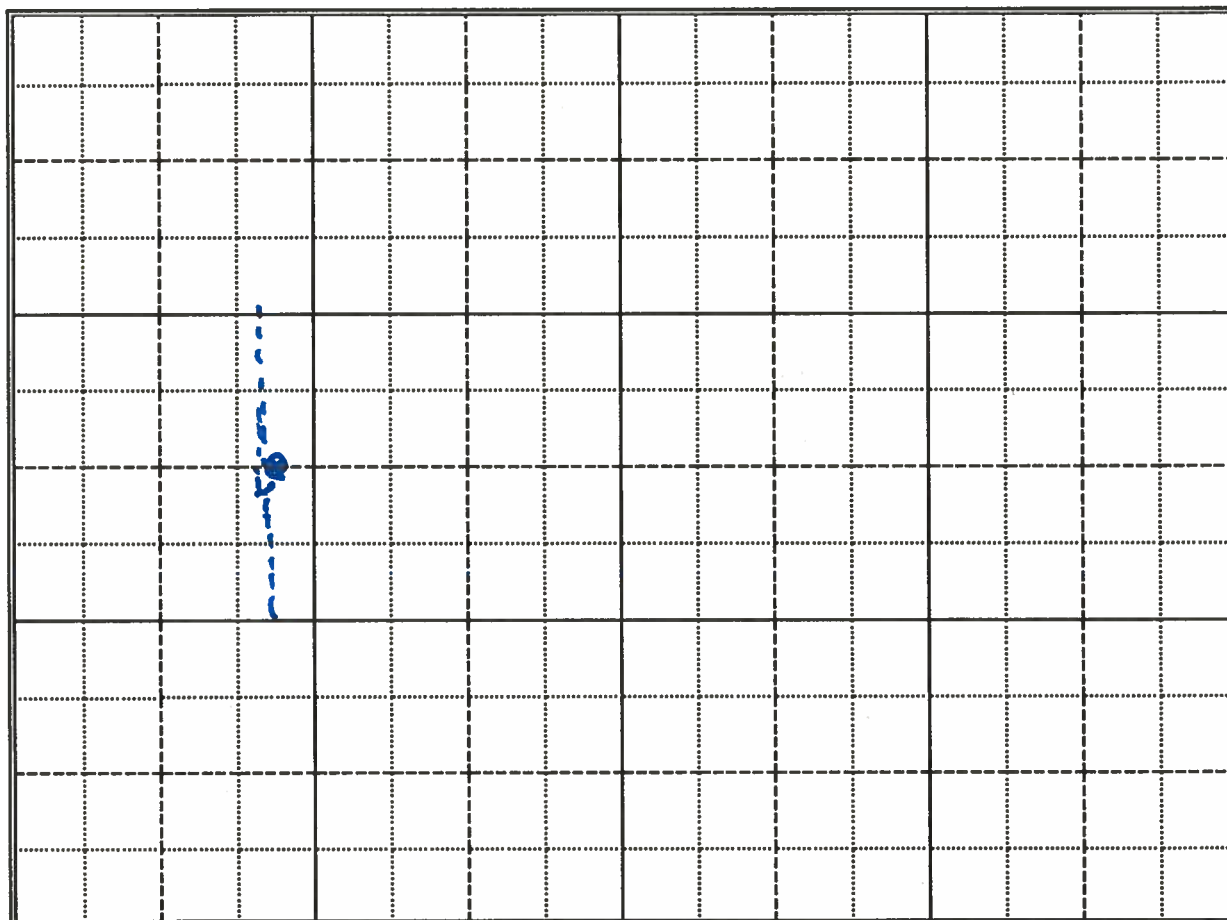


[illegible]

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
	Franklin	20	?	Gould	Model 225H20-6

*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: Not measured. Pump rated for ³¹⁰~~220~~ gpm at ~~205'~~ ^{45 psi} TDH (pumping level about 60') per Funk Irrigation Co. of American Falls.

E. NARRATIVE/REMARKS/COMMENTS

Well, submersible motor & pump, mainline to handlines w/ Rainbird sprinklers. Land is in pasture grass instead of row crops.

Lot 6 is 33.7 acres. All but about 1 acre is irrigated. Permit is for 30 acres, so 30 acres is recommended as the place of use.

Well supplements Marsh Creek decreed water, which is often cut off in mid-summer. or 0.02 cfs/acre

Not to exceed 4.0 AFA/acre for all rights combined on this land.

Watermaster has stated that this property would have surface water available for at least 90 days each year, and often more. Thirty inches of water for 90 days = 107.1 AFA. With only 120 AFA

allowable for 30 acres, it appears that the well is not used very much. Therefore, any proposed transfer of this well to other property would probably constitute an expansion. Mr. Penner has not had this property long enough to establish a long-term usage pattern for this well, he is a dentist, not a farmer. The original owner (Mr. Penrod) is deceased.

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

F. FLOW CALCULATIONS

Measured Method:

Pump rated 0.69 cfs. ☒ Additional Computation Sheets Attached

Not measured. ~~Theoretical capacity is 1.10 cfs. Allow 30 ac, x 0.02 cfs/ac~~
= 0.60 cfs.

G. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 30 \times 4 = 120$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation Season}) \times 1.9835 = 0.60 \times 214 \times 1.9835 = 254.7$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 120.0 \text{ AFA}$$

2. Volume Calculations for Other Uses:

H. RECOMMENDATIONS

1. Recommended Amounts

Beneficial Use	Period of Use		Rate of Diversion Q (cfs)	Annual Volume V (afa)
	From	To		
Irrigation	4-1	10-31	0.60	120.0
Totals:			0.60 cfs	120.0 AFA

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. AUTHENTICATIONField Examiner's Name JE Stanton Date 10-19-95

Reviewer _____ Date _____

SEAL

GROUNDWATER MEASUREMENT REQUIREMENT ANALYSIS

FILE: 45-07678
DATE: 10-4-95
BY: JE Stanton

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])

$$Q = \frac{(8.8) (20) (0.70)}{[(\cancel{36} 60) + (45 \times 2.31)]} = \frac{1232}{100.95} = 12.2 \text{ cfs}$$

337 gpm

LIFT FROM:	PSI FROM:	NOTES ON PUMP:
measurement (x)	measurement ()	Motor Make, Serial or ID
owner ()	owner ()	
area estimate ()	estimate ()	Pump Make, Serial or ID, rating
well logs (w)	owner gage (x)	

Booster (Y) (N)
REMARKS Pump rated 310 gpm under above conditions.

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 = $\frac{(\dots 214 \dots) \times (1.98) \times (\dots 0.67 \dots)}{(\dots 30 \dots)}$
4/1 - 11/1	215	
4/15 - 10/15	184	
3/1 - 12/1	276	

POTENTIAL = 9.8

REQUIRED Acre Feet/Acre/Annum = 4.0
(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 ()

45-07678

P/D



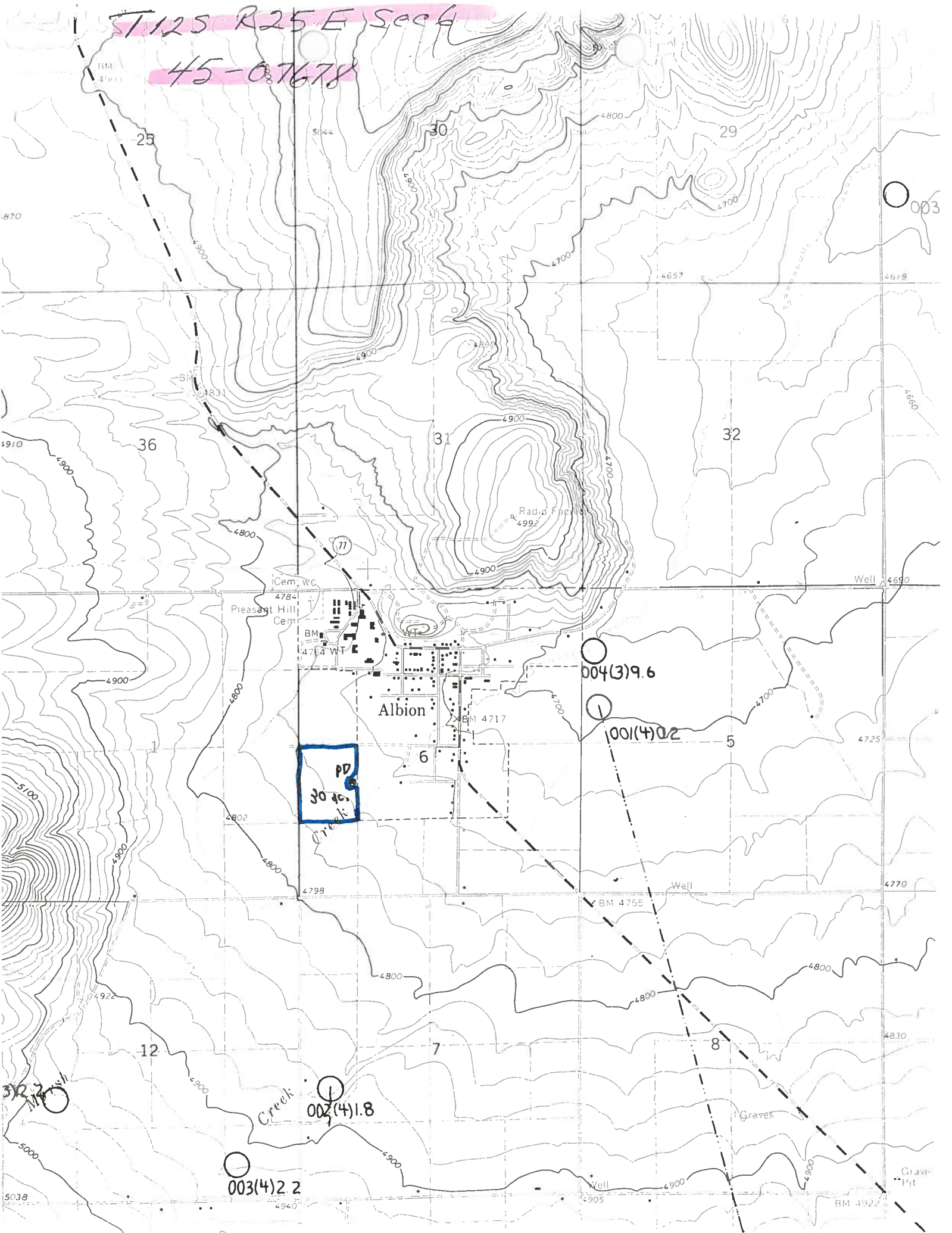
P/U



45-767

ST 125 R 25 E Sec 4

45-07678





ANALYSIS SHEET
FOR
PROOF OF BENEFICIAL USE

Permit No. 45-07678

Reviewed by Klg

Date 10/15/93

GENERAL CONSIDERATIONS

TYPES OF USE

yes Name same as permit?
yes Address same as permit?
no Proof timely received?
If not, complete calculation below.

irrigate -30
yes Correct Uses?

SOURCE OF WATER

 Surface water source

✓ Ground water source

NA Drilling permit required?

10/17 / Copy in the file? Drilling Permit No.

/ Amount paid for permit Correct?

/ Well log in the file?

LICENSE EXAMINATION FEE

yes Required?
100 Amount Submitted
yes Correct?

MEASURING DEVICE

yes Required?
no Installed?
no Waiver requested?

PRIORITY CALCULATION

Date proof received	<u>10/14/93</u>	<u>287</u>
Date proof due	<u>10/1/93</u>	<u>- 274</u>
No. of days late	<u>=</u>	<u>13</u>
Priority Date	<u>9/11/90</u>	<u>+ 254</u>
New Priority Date	<u>9/24/90</u>	<u>267</u>

DEFICIENCIES OR ACTION ITEMS

proof acceptable

flow & order

DATA ENTRY

New Address

Proof Made 10/14/93 10/22/93 Klg