

BEE MAN & ASSOCIATES, P.C.

Counselors and Attorneys at Law
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Boise, Idaho 83702-6049

Josephine P. Beeman
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RECEIVED

AUG 31 2005

DEPARTMENT OF
WATER RESOURCES

Phone (208) 331-0950
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August 31, 2005

Via Hand Delivery

Erin Retelle
Water Allocations
Idaho Department of Water Resources
322 E. Front Street, 6th Floor
Boise, Idaho

Re: *Application for Amendment of Permit 37-7638
Sand Springs Ranch & Co.*

Dear Ms. Retelle:

This letter is provided on behalf of Sand Springs Ranch & Co. whom I represent regarding permit 37-7638. The letter accompanies the Application for Amendment of Permit 37-7638 which IDWR has prepared for licensing purposes. A narrative with attached documents is also provided by Sand Springs Ranch & Co.

The only reason that an amendment may be required for licensing of this permit is to clarify the location of the point of diversion. However, as noted in the attached narrative, the permitted location was confirmed by the first examination. The second examination indicated the well was not located within the permitted legal subdivision, but the information in the files relative to this examination does not definitively locate the well. Unless IDWR has additional information to confirm the location, the amendment should either not be required or the license should be issued listing both 40 acre subdivisions as locations for the well.

As explained in the narrative, Sand Springs Ranch & Co. believes permit 37-7638 should be licensed as a primary ground water right for 463 acres.

It is important that IDWR understands the significance of attaching a condition limiting use of water under this right as supplemental to surface water. The surface water rights associated with this property have been sold and are no longer available for use. The sale occurred before the permit holder had notice of the proposed limiting condition or had any reason to believe that use of the permit could not continue. If IDWR attaches the proposed conditions requiring use of surface water rights, the valuable irrigated property will be converted to dry land.

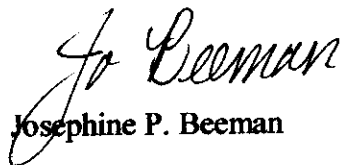
Erin Retelle
Re: 37-7638
August 31, 2005
Page 2

Permit 37-7638 had a development period of September 16, 1977, to September 1, 1982. The permit was issued without restrictions and was developed as a ground water right without restrictions during the allowed period of development. The Proof of Beneficial use was filed during the summer of 1982, prior to September 1, 1982. The August 15, 1989, beneficial use field exam confirmed a rate of diversion of 4.87 cfs for 463 acres. Changes that were in progress or had been completed at the time of the 1995 examination cannot influence licensing of the right. IDWR is without authority to license this permit to limit the nature and extent of use lawfully developed under the permit as issued.

In addition, under the principles of the SRBA District Court decision in *Wood v. Troutt*, the issuance of a license, as supported by Sand Springs Ranch & Co., is consistent with and within the terms of the SRBA claim for 37-7638 filed in September/October 1989.

Sincerely,

BEEMAN & ASSOCIATES, P.C.



Josephine P. Beeman

JPB:ja
Enclosures
cc: Tom Ambrose
Norm Young (ERO Resources)
Craig D. Hobdey (Attorney for Seller/Gonsales, Buyer/Smith)
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NARRATIVE REGARDING LICENSING OF GROUND WATER PERMIT 37-7638

August 30, 2005

Exhibit A: The 1989 beneficial use field report for permit 37-7638

Exhibit B: The 1989 SRBA claim 37-7638

Exhibit C: The approved application for permit 37-7638

Exhibit D: The 1995 beneficial field report for Permit 37-7638

This narrative is prepared in support of the licensing of Permit 37-7638 and the preparation of IDWR's Director's Report for SRBA claim 37-7638.

PERMIT 37-7638

Application for permit 37-7638 was filed July 5, 1977 with IDWR. It was approved September 16, 1977 for 9.0 cfs of ground water to irrigate 480 acres, all in Section 29, T01S, R15E. The permit states that a 150 hp electric pump will lift water which will then be pumped into an existing sprinkler system. The permit describes "700 shares of Twin Lakes Reservoir" as a water right used for the same purposes as the permit application. The permit also states:

Twin Lakes water is normally available during the months of June, July, and first half of August. This water [ground water permit 37-7638] is necessary to make a more economical operation for the sprinkler system which is already in operation by lengthening the sprinkling season. Also during low water years it will be extremely important.

The approved application for permit (Exhibit C) was issued to William E. Sweet. Proof of beneficial use was required on or before September 1, 1982. There were only two conditions on the permitted water right:

- For licensing purposes, a scientific measurement of the diversion rate of the system as it is normally operated shall be provided by either properly installing an approved type of measuring device or by having a professional engineer certify the rate of diversion to the Department prior to submitting proof of beneficial use of water. (Note: By letter dated February 24, 1982, IDWR notified the permit holder that this condition had been revised to allow an access port to be installed instead of a measuring device.)
- The rate of diversion of water for irrigation under this permit and all other water rights on the same land shall not exceed 0.02 cubic feet per second for each acre of land.

The IDWR water right file for 37-7638 contains a Proof of Beneficial Use form signed by William E. Sweet and dated July 17, 1982. The file also contains an acknowledgment letter of August 27, 1982, to Mr. Sweet from Gary Funderburg with the IDWR office in Twin Falls, Idaho.

1989 BENEFICIAL USE FIELD EXAM – THE FIRST EXAM

Gary Funderburg of IDWR Twin Falls conducted a beneficial use field examination on August 15, 1989. The beneficial use field report indicates that Ron Ambrose, a manager for Ambrose Farms, accompanied Gary Funderburg the day of the beneficial use field exam. The beneficial use field report lists Idaho State Bank as the current owner of Permit 37-7638, but notes “purchaser” for Ron Ambrose.

The August 15, 1989 field report indicates that the land is irrigated by gravity flow in the narrative description at #3. The place of use is identified as 463 acres all in Section 29 of T01S, R15E, B.M. in accordance with the approved permit. The field report recommended a rate of flow of 4.87 cfs, based on the flow rate measured by the examiner. The Examiner recommended an annual diversion volume of 1389 afa based upon 3 afa for the 463 acres found to be irrigated. IDWR currently recognizes an annual diversion volume of 3.5 afa so a volume of 1620.5 acres can be licensed.

The well in operation is identified by motor make (U.S. Vertical), horsepower (125), motor serial number (84-14696-391), and pump make (Layne). The well’s location is described as SENW, Sec. 29, T01S, R15E, Camas County, Idaho which comports with the approved permit. The Examiner indicated that no amendments were necessary to issue a license.

SRBA CLAIM 37-7638

The SRBA claim for Permit 37-7638 is dated September 7, 1989, but the date of the signature is October 24, 1989. This indicates, perhaps, that IDWR worked with Ambrose Farms to prepare the claim as of September 7, 1989, but the claim was signed on October 24, 1989. The claim is signed by George Ambrose, as General Manager, Ambrose Farms.

The SRBA claim states, “This permit has been field examined for license. Claim is based on permit and not field exam.” The claim lists 480 acres for the place of use. The 17-acre difference between the August 15, 1989 field exam (463 acres) and the SRBA claim for 37-7638 (480 acres) is an additional ten acres in the SWSW, an additional one acre in the NENW, an additional two acres in the NWNW, and an additional two acres in the SWNW, all in Section 29 on the SRBA claim. The SRBA claim matches the acreage in the Permit.

The 1989 beneficial use field report recommended a rate of flow of 4.87 cfs. The SRBA claim for 37-7638 listed 9.0 cfs, consistent with the permit.

1995 BENEFICIAL USE FIELD EXAM – THE SECOND EXAM

A second beneficial field report (Exhibit D) was prepared for Permit 37-7638 based on an examination on August 3, 1995. The reason for conducting a second field examination is not explained in the file. Ron Ambrose “per telcon” is listed as the person who accompanied Jim Stanton from IDWR on the date of the exam. Mr. Stanton’s handwritten notes in the field report are included below:

Well, two submersible pumps to two pivots, handlines. This exam replaces the original exam done in 1989. Original exam erred in the recommended place of use. I have been trying to determine the correct P/U for sometime without success. Ambrose Farms now owns this Farm. They have just converted the system from gravity to sprinkler irrigation, reducing pump horsepower and eliminating some formerly-irrigated ground. Under gravity irrigation, well water was commingled with Mormon Reservoir water in ditches. Under sprinklers, only the well will be used. The surface water (a poor supply in most years) will be shifted to other lands they own across the road. I did not observe the gravity system in operation. However, based on ASCS data, it appears that a maximum of 298 acres were irrigated under the old system. This is much less than 480 permitted acres and the 463 previously-recommended acres. Only 140 acres are now irrigated with the two pivots installed in 1995. Owner considered installing additional sprinklers in 1996, but has not done so. Therefore, only the land under the pivots is recommended for licensing. [end of handwriting]

See two maps with the 1995 field exam, one entitled "P/U Under Gravity" and the other entitled "P/U Under Pivot". The maps show how Mr. Stanton derived the 298 acres he indicated were irrigated under the old gravity system and the 140 acres irrigated with the two pivots installed in 1995.

The 298 acres listed on the map "P/U Under Gravity" for the 1995 field exam include the fields located within the NW $\frac{1}{4}$ and the NW $\frac{1}{4}$ SW $\frac{1}{4}$, but many of the fields located in the NE $\frac{1}{4}$ and the SW $\frac{1}{4}$ of Section 29 that are allowed to be irrigated under the permit are not included even though these fields were found to be irrigated during the earlier examination and designated as cropped on the ASCS photo.

RESPONSE TO IDWR REGARDING LICENSING

The permit was issued without restrictions and was developed without restrictions during the allowed period of development (1977 to 1982). IDWR is without authority to limit the permit now as it prepares to license 37-7638. The permit holder is entitled to have a license issued confirming the extent of diversion and beneficial use made in accordance with the permit during the permit development period.

Discussion regarding response to IDWR: Proof of beneficial use was filed during the relevant development period. The 1989 beneficial use field report confirmed the use of ground water on 463 acres. The forfeiture provisions of Section 42-222, Idaho Code are not applicable to a right while it is in the permit stage and further the September/October 1989 SRBA claim invokes the SRBA precedent of *Wood v. Troutt*; permit 37-7638 as developed is not subject to forfeiture between the time the SRBA claim was filed in September/October 1989 and the entry of a partial decree for 37-7638. The permit was issued without restrictions and was developed without restrictions during the allowed period of development. IDWR is without authority to limit it now.

More detailed description of irrigation prior to installation of pivots in 1995: Ron Ambrose, General Manager for Ambrose Farms, was involved with irrigation of the place of use for 37-7638 at the time Neil Ambrose (or one of the Neil Ambrose entities) was purchasing the property in 1988 through the irrigation season of 2003. (During this same time frame, the property was transferred to Sand Springs Ranch & Co. and still operated by Ambrose Farms. A Personal Representative's Deed to Sand Springs Ranch & Co. is enclosed.)

Tom Ambrose and Ron Ambrose know the following about the property managed by Ambrose Farms which included the place of use for Permit 37-7638. Highway 47 (Fairfield to Gooding highway) runs through the property. The place of use for Permit 37-7638 is at the north end of the property and entirely to the east of Highway 47. Before the pivots were installed in 1995, the ground water was plumbed into an existing gravity sprinkler system that also carried Twin Lakes water, when that surface source was available, as described in the original permit application. The Twin Lakes water (Mormon Reservoir water) came in to the south end of the property and had to be delivered under Highway 47 to irrigate land that was both east of Highway 47 and at the north end of the property. Even though there were ditches on the east side of the road, the delivery of Twin Lakes water to that location was difficult and complicated. Ron Ambrose could only irrigate 40 acres on this east side of Highway 47 with the Twin Lakes (Mormon Reservoir) water. Ron grew hay and grain on the property. (An affidavit will be provided if necessary.)

COMMENTS REGARDING THE "APPLICATION FOR AMENDMENT"
PREPARED BY IDWR AND COMMENTS REGARDING A LICENSE FOR 37-7638

1. The only reason that an amendment may be required for licensing of this permit is to clarify the location of the point of diversion. However, the permitted location was confirmed by the first examination. The second examination indicated the well was not located within the permitted legal subdivision, but the information in the files relative to this examination does not definitively locate the well. Unless IDWR has additional information to confirm the location, the amendment should either not be required or the license should be issued listing both 40 acre subdivisions as locations for the well.
2. Although it is not clear that a permit amendment is needed in order to issue a license for permit 37-7638, the Application for Amendment proposed by IDWR indicates elements and conditions which Sand Springs Ranch & Co. understands IDWR would impose on a license for 37-7638. The following are Sand Springs Ranch & Co.'s response and instructions regarding a license for 37-7638.
 - (a) The rate of diversion should be based upon the larger system found in the 1989 exam rather than the smaller pumps reported in 1995.
 - (b) The place of use for irrigation should be changed to show the same acres as on the August 1989 beneficial use field exam. That would be a total of 463 acres.
 - (c) On the second page of the Application for Amendment, both the first condition and second condition of approval are to be stricken through entirely.

- (d) Condition #5 has a maximum diversion volume of 1046.5 acre-feet. That should be changed to 1620.5 acre-feet in accordance with the August 15, 1989, beneficial use field report and IDWR's current standard.

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STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No. 37-7638

1. Owner: Idaho State Bank. Phone No. 208-266-7492.

Current Address: P.O. Box 909

2. Accompanied by: Glenns Ferry, Ida 83623 EXAM. DATE: 8-15-89
Ron Ambrose.

Address: _____ Phone No. _____

Relationship to Permit Holder: purchaser -

3. Source: groundwater tributary to ✓

B. OVERLAP REVIEW

1. Other water rights with same place of use: 37-2105 (Twin Lakes Canal Co.
shares) ☐ 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

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).

A

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

land is Irrigated by gravity Flow -

☐ 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
U.S.	U.S. Vertical	125	84-14696-391	Laurel -	

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

5. Point(s) of Diversion:

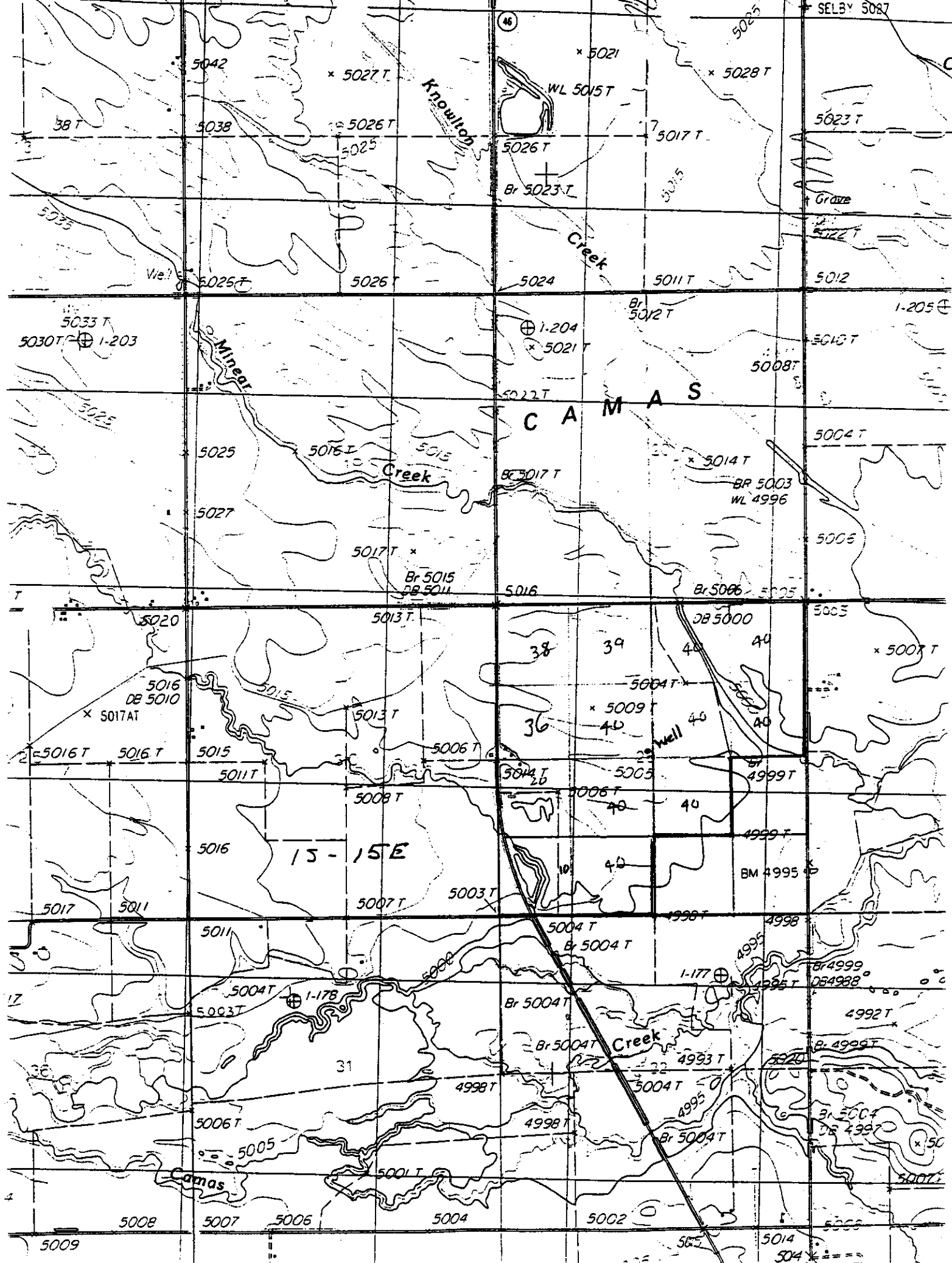
Ident. No.	Gov't. Lot	1/4	1/4	1/4	Sec.	Twp.	Rge.	County	Method of Determination/Remarks
		SE	NW		29	1S	15E	Camas	

6. Place(s) of Use:

Indicate Method of Determination

Twp.	Rge.	Sec.	NE 1/4				NW 1/4				SW 1/4				SE 1/4				Totals
			NE 1/4	NW 1/4	SW 1/4	SE 1/4	NE 1/4	NW 1/4	SW 1/4	SE 1/4	NE 1/4	NW 1/4	SW 1/4	SE 1/4	NE 1/4	NW 1/4	SW 1/4	SE 1/4	
1S	15E	29	40	40	40	40	39	38	36	40	40	20	10	40		40			463

Do not use this space





Spalling Meter on End of pipe. From well



well motor & pump.

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:

12" dia . 15.5 Reading .
 $(12.0)^2 (3.85) \sqrt{15.5} =$
 $(144) (3.85) (3.94) = 2184.336 \text{ gpm} = 4.87 \text{ cfs} \dots$

E. FLOW CALCULATIONS

☐ Additional Computation Sheets Attached

1. Measured Method:

2. Alternate Method for Checking Purposes:

F. PUMP EFFICIENCY DATA (Optional)

Discharge Pressure: _____ psi x 2.31 = _____ ft (1); Dynamic pumping level: _____ ft (2)
Total Head: (1) + (2) = _____ (3) ; Flow rate: _____ cfs (4)

Water HP: (3) x (4) ÷ 8.8 = _____ (5)
Meter Input KW: 3.6 x _____ KH x _____ CTR or _____ MULT x _____ PTR x _____ N/ _____ T = _____ (6)
Meter Input HP: (6) x 1.34 = _____ (7)
Panel Input KW: _____ Ave PF x _____ Ave Volts x _____ Ave Amps x .001732 = _____ (6)
Panel Input HP: (6) x 1.34 = _____ (7) Efficiency: (5)/(7) x 100 = _____ %

G. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = \frac{3}{(215)} (463) = 99.545 \text{ } 1389$
 $V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation Season}) \times 1.9835 = (4.87 \text{ cfs}) (215) (1.9835) = 2076$
 $V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 1389 \text{ A.F.F./ANN.}$

2. Volume Calculations for Other Uses:

[illegible]

1. Recommended Amounts

2. Recommended Amendments

- ## J. AUTHENTICATION

CONSULTANT SEAL

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

IN THE DISTRICT COURT OF THE FIFTH JUDICIAL DISTRICT OF THE STATE OF IDAHO,
IN AND FOR THE COUNTY OF TWIN FALLS

IN RE THE GENERAL ADJUDICATION
OF RIGHTS TO THE USE OF WATER FROM
THE SNAKE RIVER BASIN WATER SYSTEM.

CIVIL CASE NUMBER: 39576

Ident. Number: A37-07638
Date Received: 9/07/1989
Receipt No: 5010404
Received By: AD

NOTICE OF CLAIM TO A WATER RIGHT
ACQUIRED UNDER STATE LAW

1. Name: AMBROSE FARMS 208-536-5332
Address: P.O. BOX 247
WENDELL, ID 83355

2. Date of Priority: JUL 05, 1977

3. Source: GROUNDWATER Trib. to:

4. Point of Diversion:

Township	Range	Section	1/4 of	1/4 of	1/4	Lot	County
01S	15E	29	SE	NW			CAMAS

5. Description of diverting works:
PUMP & SPRINKLERS.

6. Water is used for the following purposes:

Purpose	From	To	C.F.S.	(or)	A.F.A.
IRRIGATION	04/01	11/01	9.000		

7. Total Quantity Appropriated is:
9.000 C.F.S. (and/or) A.F.A.

8. Total consumptive use is 1200.0 Acre Feet Per Annum.

9. Non-irrigation uses:
NONE

10. Place of Use:

Township	Range	Section	1/4 of	1/4	Lot	Use	Acres
01S	15E	29	NE	NE		IRR	40.0
			NW	NE		IRR	40.0
			SW	NE		IRR	40.0

A37-07638

Page 1

Date: 09/07/89

(B)

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FEB 24 1993

10. Place of Use: Continued

Township	Range	Section	1/4 of	1/4	Lot	Use	Acres
01S	15E	29	SE	NE		IRR	40.0
			NE	NW		IRR	40.0
			NW	NW		IRR	40.0
			SW	NW		IRR	40.0
			SE	NW		IRR	40.0
			NE	SW		IRR	40.0
			NW	SW		IRR	20.0
			SW	SW		IRR	20.0
			SE	SW		IRR	40.0
			NW	SE		IRR	40.0
						Section Acres	480.0
						Total Acres	480.0

11. Place of use in counties: CAMAS

12. Do you own the property listed above as place of use? YES

13. Other Water Rights Used:
SHARES IN TWIN LAKES RES. CO.

14. Remarks:
THIS PERMIT HAS BEEN FIELD EXAMINED FOR LICENSE.
CLAIM IS BASED ON PERMIT AND NOT FIELD EXAM.

15. Basis of Claim: PERMIT

16. Signature(s)

(a.) By signing below, I/We acknowledge that I/We have received, read and understand the form entitled "How you will receive notice in the Snake River Basin Adjudication." (b.) I/We do do not X wish to receive and pay a small annual fee for monthly copies of the docket sheet.

Number of attachments: 2

For Organizations:

I do solemnly swear or affirm that I am GENERAL MANAGER of
Title
Ambrose Farms, that I have signed the foregoing
Organization
document in the space below as GENERAL MANAGER of
Title

Ambrose Farms and that the statements contained in the
Organization
foregoing document are true and correct.

[Signature]
Signature of Authorized Agent

GENERAL MANAGER, Ambrose Farms
Title and Organization

10-24-89
Date

State of Idaho)
County of Gooding) ss.

Subscribed and sworn (or affirmed) before me this 24th day
of October 19 89

William Cooper
Notary Public

Seal

Residing at Wendell, Idaho

My Commission Expires 4-28-91

Identification No. _____

Application No. 37-7638

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

APPLICATION FOR PERMIT **APPROVED**

To Appropriate the Public Waters of the State of Idaho
(TYPE OR PRINT IN INK)

1. Name of applicant William E. Sweat Phone: 764-2542
post office address Route #1, Fairfield, ID 83327
2. Source of water supply groundwater which is a tributary of _____
3. a. Location of point of diversion is SE $\frac{1}{4}$ of NW $\frac{1}{4}$ of Section 29 Township 1S
Range 15E. B.M. Camas County; additional points of diversion if any: _____

b. If water is not consumed, it will be discharged into _____ at a point in _____ $\frac{1}{4}$
of _____ $\frac{1}{4}$ of Section _____ Township _____ Range _____ B.M. _____
4. Water will be used for the following purposes:
Amount 9.0cfs for irrigation purpose from Apr. 1 to Nov. 1 (both dates inclusive)
(cfs or acre-feet per annum)
Amount _____ for _____ purpose from _____ to _____ (both dates inclusive)
(cfs or acre-feet per annum)
Amount _____ for _____ purpose from _____ to _____ (both dates inclusive)
(cfs or acre-feet per annum)
5. Total quantity to be appropriated:
a. 9.0 cubic feet per second and/or
b. _____ acre feet per annum.
6. Proposed diverting works:
a. Description of ditches, flumes, pumps, headgates, etc. 150 hp electric pump to lift water
which will then be plumbed into existing sprinkler system.

b. Height of storage dam _____ feet, active reservoir capacity _____ acre feet; total reservoir
capacity _____ acre feet, materials used in storage dam: _____
Period of year during which storage will occur _____ to _____ inclusive.
(Mo. Day) (Mo. Day)
c. Proposed well diameter is _____ inches; proposed depth of well is 200 feet.
7. a. Time required for the completion of the works and application of the water to the proposed beneficial use
is 5 years.
b. Estimated construction cost is \$ 15,000 (sprinkler existing)
8. Description of proposed uses:
a. If water is not for irrigation:
(1) Give the place of use of water: _____ $\frac{1}{4}$ of _____ $\frac{1}{4}$ of Section _____ Township _____
Range _____ B.M. _____
(2) Amount of power to be generated: _____ hp under _____ feet of head
(3) List number of each kind of livestock to be watered _____

(4) Name of municipality to be served _____, or number of families to be
supplied with domestic water _____
(5) If water is to be used for other purposes describe: _____

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b. If water is for irrigation, indicate acreage in each subdivision in the tabulation below:

TWP.	RANGE	SEC.	NE 1/4				NW 1/4				SW 1/4				SE 1/4				TOTALS
			NE 1/4	NW 1/4	SW 1/4	SE 1/4	NE 1/4	NW 1/4	SW 1/4	SE 1/4	NE 1/4	NW 1/4	SW 1/4	SE 1/4	NE 1/4	NW 1/4	SW 1/4	SE 1/4	
1S	15E	29	40	40	40	40	40	40	40	40	40	20	20	40		40			480

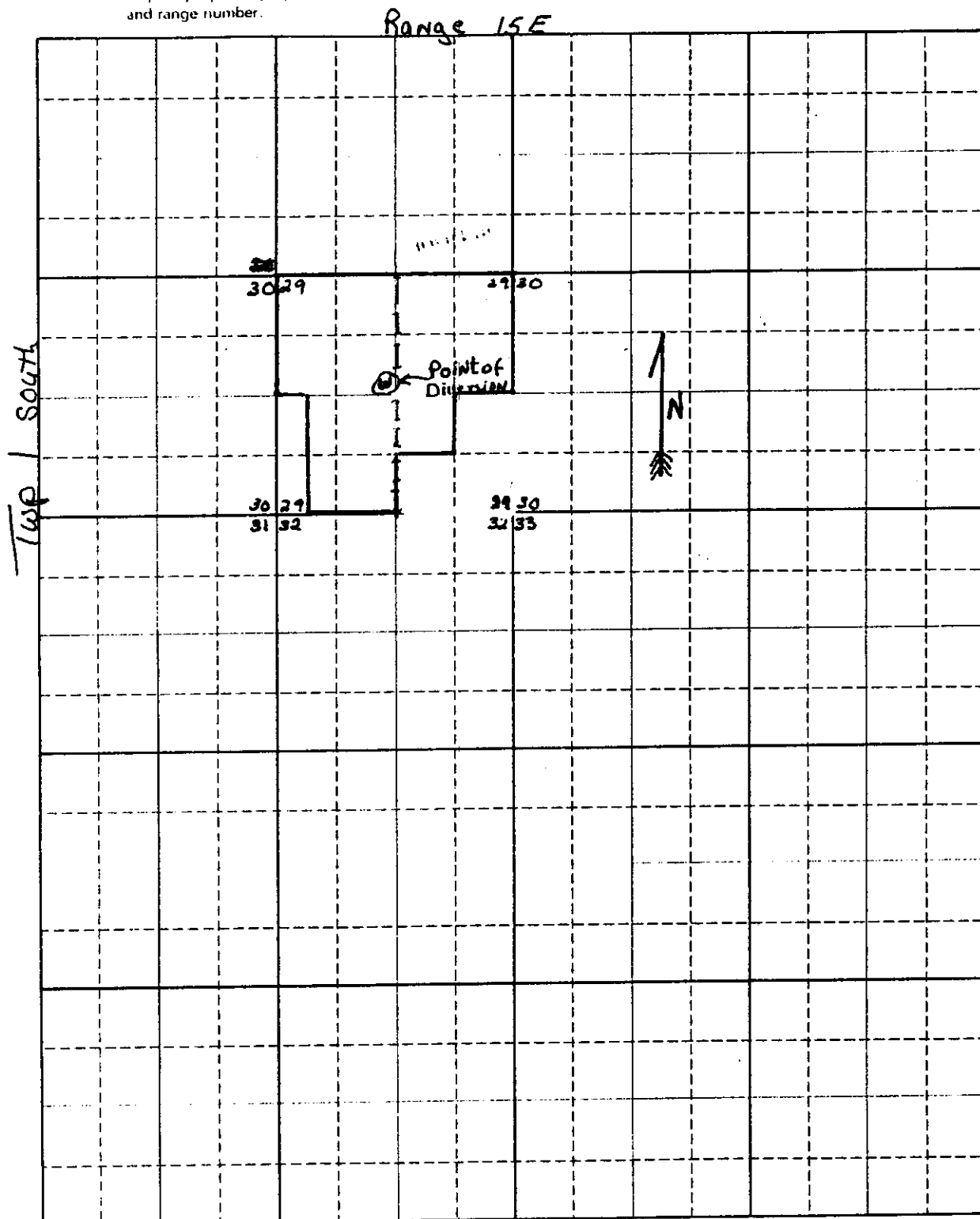
Total number of acres to be irrigated 480

c. Describe any other water rights used for the same purposes as described above. 700 shares of Twin Lakes Reservoir.

9. a. Who owns the property at the point of diversion William E. Sweet
 b. Who owns the land to be irrigated or place of use William E. Sweet
 c. If the property is owned by a person other than the applicant, describe the arrangement enabling the applicant to make this filing _____

10. Remarks Twin Lakes water is normally available during the months of June, July and first half of August. This water is necessary to make a more economical operation for the sprinkler system which is already in operation by lengthening the sprinkling season. Also during low water years it will be extremely important

11. Map of proposed project: show clearly the proposed point of diversion, place of use, section number, township and range number.



Scale: 2 inches equal 1 mile

BE IT KNOWN that the undersigned hereby makes application for permit to appropriate the public waters of the State of Idaho as herein set forth.

William P. Sweet
(Applicant)

Proposed Priority 7/ 5/77

Received by TGB Date 7-5-77 Time 12:30

Preliminary check by D.H. Fee \$ 105.00

Received by TGB Date 7-5-77 Ref # 8621

Publication prepared by Am Date 7/12/77

Published in Thompson Home News

Publication dates 7/21 & 7/28/77

Publication approved AD Date 8/1/77

Priority reduced to _____ Reason _____

Protests filed by: _____

Copies of protests forwarded by: _____

Hearing held by: _____ Date _____

Recommended for approval denial by ADM jg

ACTION OF THE DIRECTOR, DEPARTMENT OF WATER RESOURCES

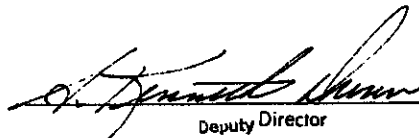
This is to certify that I have examined Application for Permit to appropriate the public waters of the State of Idaho No. 37-7638, and said application is hereby APPROVED.

1. Approval of said application is subject to the following limitations and conditions:

- a. SUBJECT TO ALL PRIOR WATER RIGHTS.
- b. Proof of construction of works and application of water to beneficial use shall be submitted on or before September 1, 19 82.
- c. Other: For licensing purposes a scientific measurement of the diversion rate of the system as it is normally operated shall be provided by either properly installing an approved type of measuring device or by having a professional engineer certify the rate of diversion to the Department prior to submitting proof of beneficial use of water.

The rate of diversion of water for irrigation under this permit and all other water rights on the same land shall not exceed 0.02 cubic feet per second for each acre of land.

Witness my hand this 16 day of September, 19 77.


Deputy Director

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

RECEIVED
AUG 16 1996

Department of Water Resources

A. GENERAL INFORMATION

Permit No. 37-07638

1. Owner: Ambrose Farms Phone No. 536-5324

Current Address: PO Box 460, Wendell, ID 83355

2. Accompanied by: Ron Ambrose per telecon EXAM DATE: 8-3-95

Address: Syme Phone No. _____

Relationship to Permit Holder: owner/operator

3. Source: Groundwater tributary to _____

B. OVERLAP REVIEW

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

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	1/4	1/4	1/4	Sec.	Twp.	Rge.	County	Method of Determination/Remarks
		NE	NE	SW	29	15	15E	Cmggs	

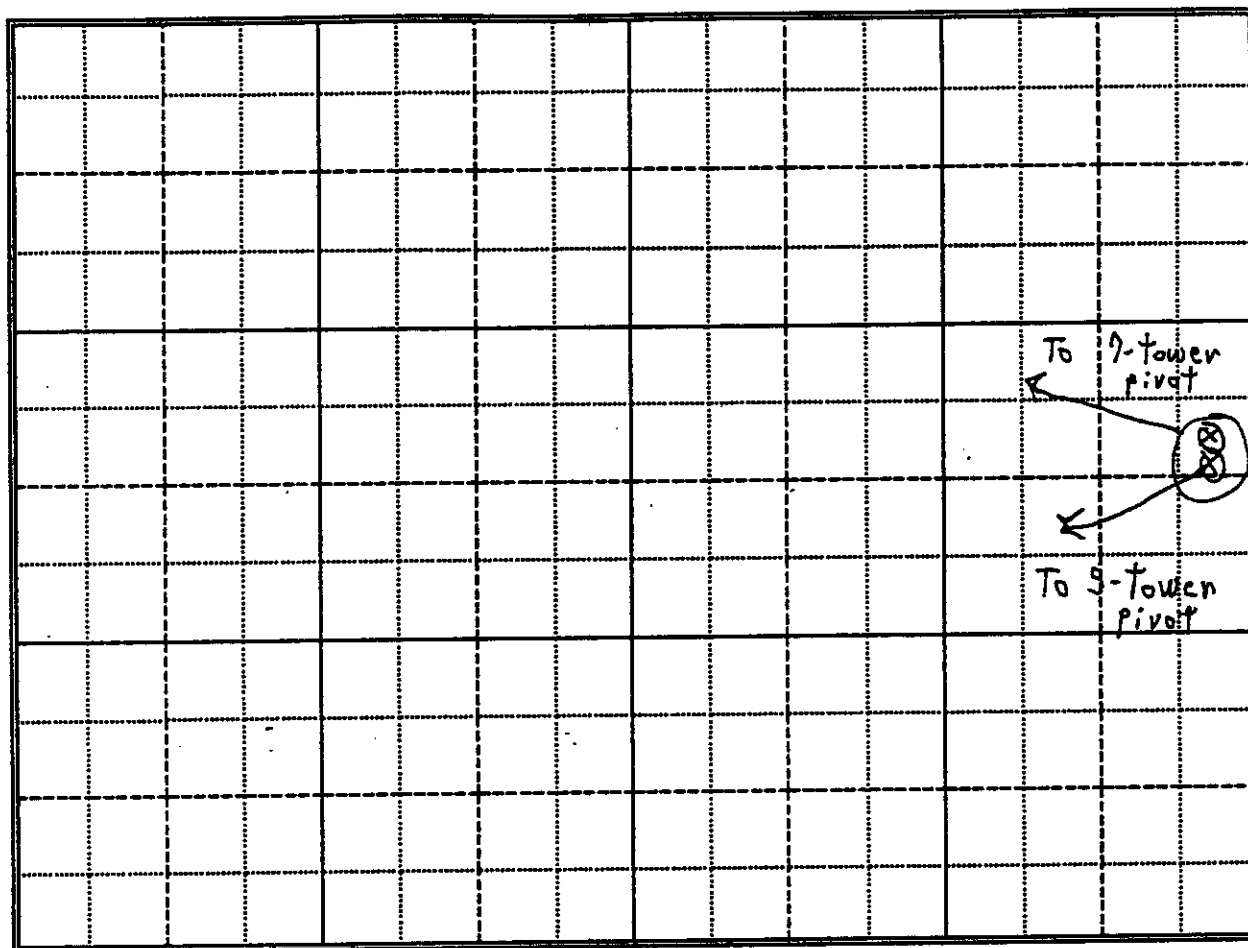
2. Place(s) of Use:

Indicate Method of Determination 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	
15	15E	29					22.8	31.7	19.5	15.8	38.9	5.5		4.2		2.2			140.6

D

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
		30			
		60			

*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. Theoretical capacity is 2.45 cfs

E. NARRATIVE/REMARKS/COMMENTS

Well, ~~motor~~ 2 submersible pumps to two pivots, hand/lines.
This exam replaces the original exam done in 1988. Original exam
erred in the recommended place of use. I have been trying to determine
the correct P/U for some time without success. Ambrose Farms now
owns this farm. They have just converted the system from gravity
to sprinkler irrigation, reducing pump horsepower and eliminating some
formerly-irrigated ground. Under gravity irrigation, well water was co-
mingled with Mormon Reservoir water in ditches. Under sprinklers,
only the well will be used. The surface water (a poor supply in most
years) will be shifted to other lands they own across the road.
I did not observe the gravity system in operation. However, based on
ASCS data, it appears that a maximum of 298 acres were irrigated under
the old system. This is much less than the 480 permitted acres, the 463
previously-recommended acres. Only 140 acres are now irrigated with
the 2 pivots installed in 1995. Owner considered installing additional
sprinklers in 1996, but has not done so. Therefore, only the land
under the pivots is recommended for licensing.

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

F. FLOW CALCULATIONS

☒ Additional Correlation Sheets Attached

Measured Method:

G. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{LR} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 140.6 \times 3.5 = 492.1$$
$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation Season}) \times 1.9835 = 2.45 \times 184 \times 1.9835 = 892.6$$
$$V = \text{Smaller of } V_{LR} \text{ and } V_{D.R.} = 492.1$$

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	4-15	10-15	2.45	492.1
Totals:			2.45	492.1

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 J F Stanton Date 8-15-96

Reviewer _____ Date _____

SEAL

GROUNDWATER MEASUREMENT REQUIREMENT ANALYSIS

FILE: 37-7638
DATE: 8-3-93
BY: Q. 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])

$$Q = \frac{(8.8) \times (60) \times (0.70)}{[(80) + (73.5 \times 2.31)]} = 1.48$$

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

REMARKS

ANNUAL VOLUME ANALYSIS

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

(season)	(days)	
3/15 - 11/15	246	
4/1 - 11/1	215	
4/15 - 10/15	184	
3/1 - 12/1	276	

POTENTIAL = $\frac{184 \times (1.98) \times (2.45)}{140.6} = 6.3$

REQUIRED Acre Feet/Acre/Annum = 3.5
(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 (X)

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

GROUNDWATER MEASUREMENT REQUIREMENT ANALYSIS

FILE: 37-7638
DATE: 8-3-95
BY: J.E. Martin

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])

$$Q = \frac{(8.8) \times (30) \times (0.70)}{[(80) + (47.5 \times 2.31)]} = 0.97$$

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

ANNUAL VOLUME ANALYSIS

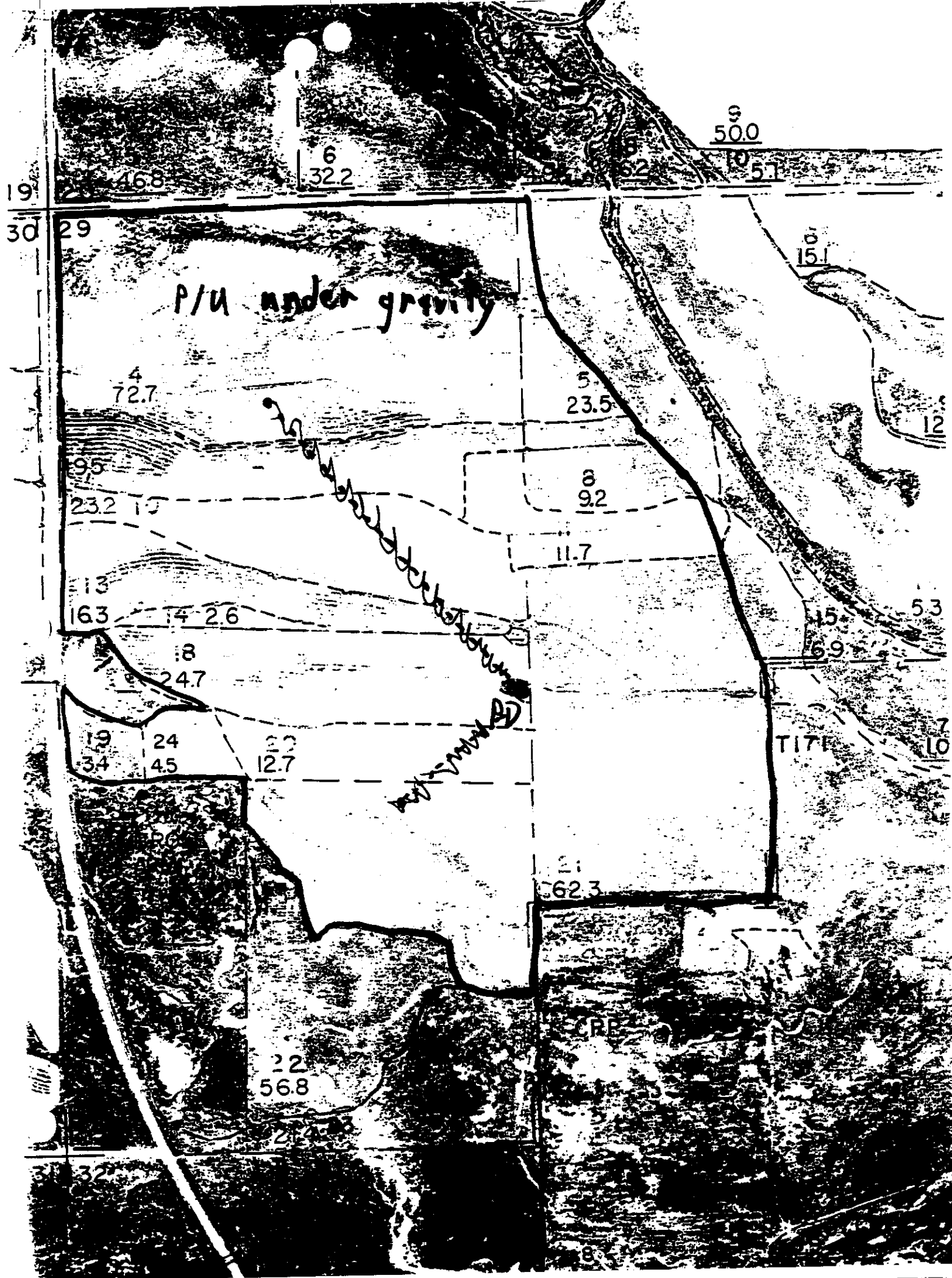
$$POTENTIAL \text{ Acre Feet/Acre/Annum} = \frac{(\text{DAYS IN SEASON}) \times (1.98) \times (Q)}{(\text{RECOMMENDED ACRES IRRIGATED})}$$

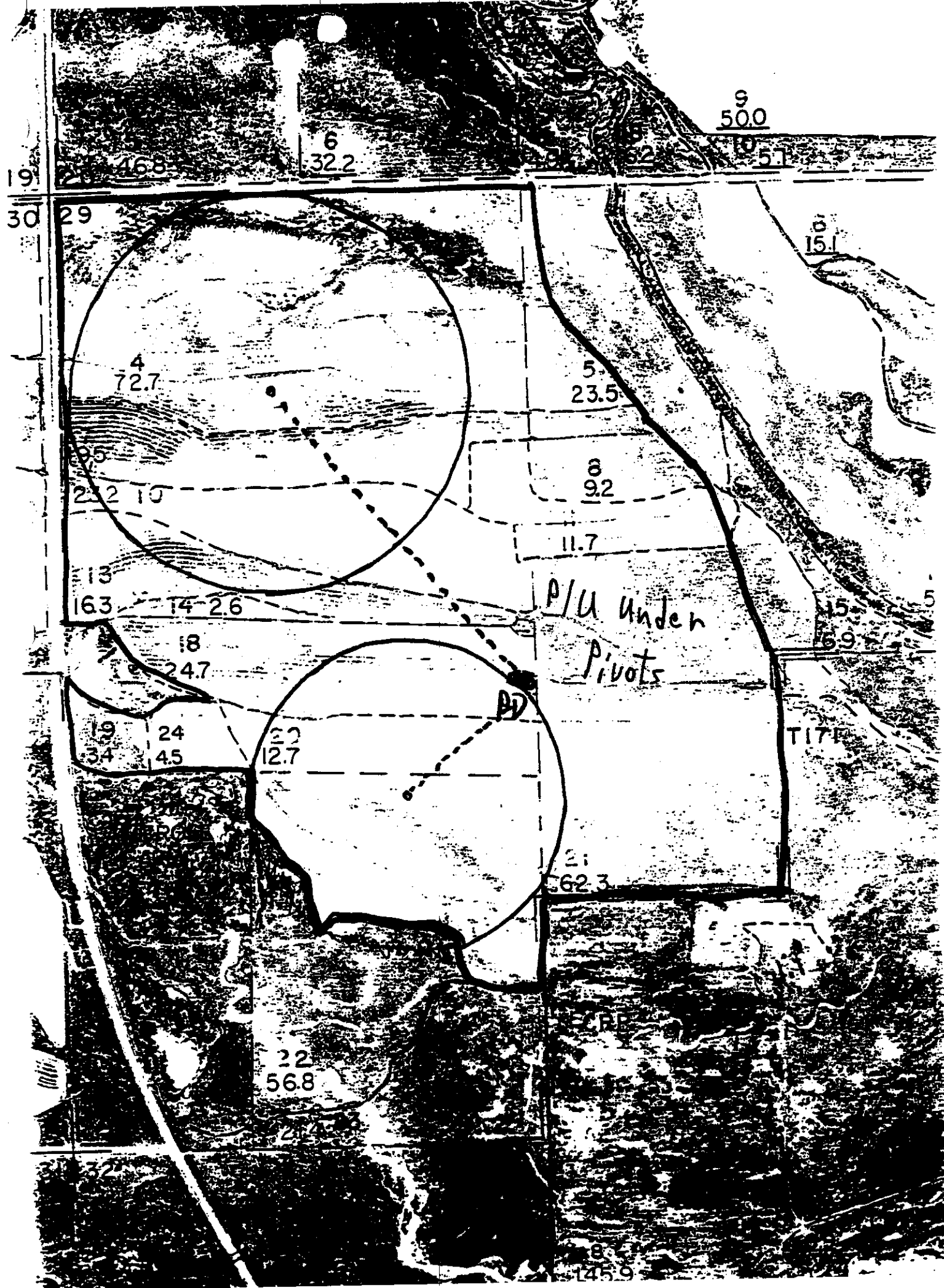
(season)	(days)	
3/15 - 11/15	246	
4/1 - 11/1	215	POTENTIAL =
4/15 - 10/15	184	
3/1 - 12/1	276	

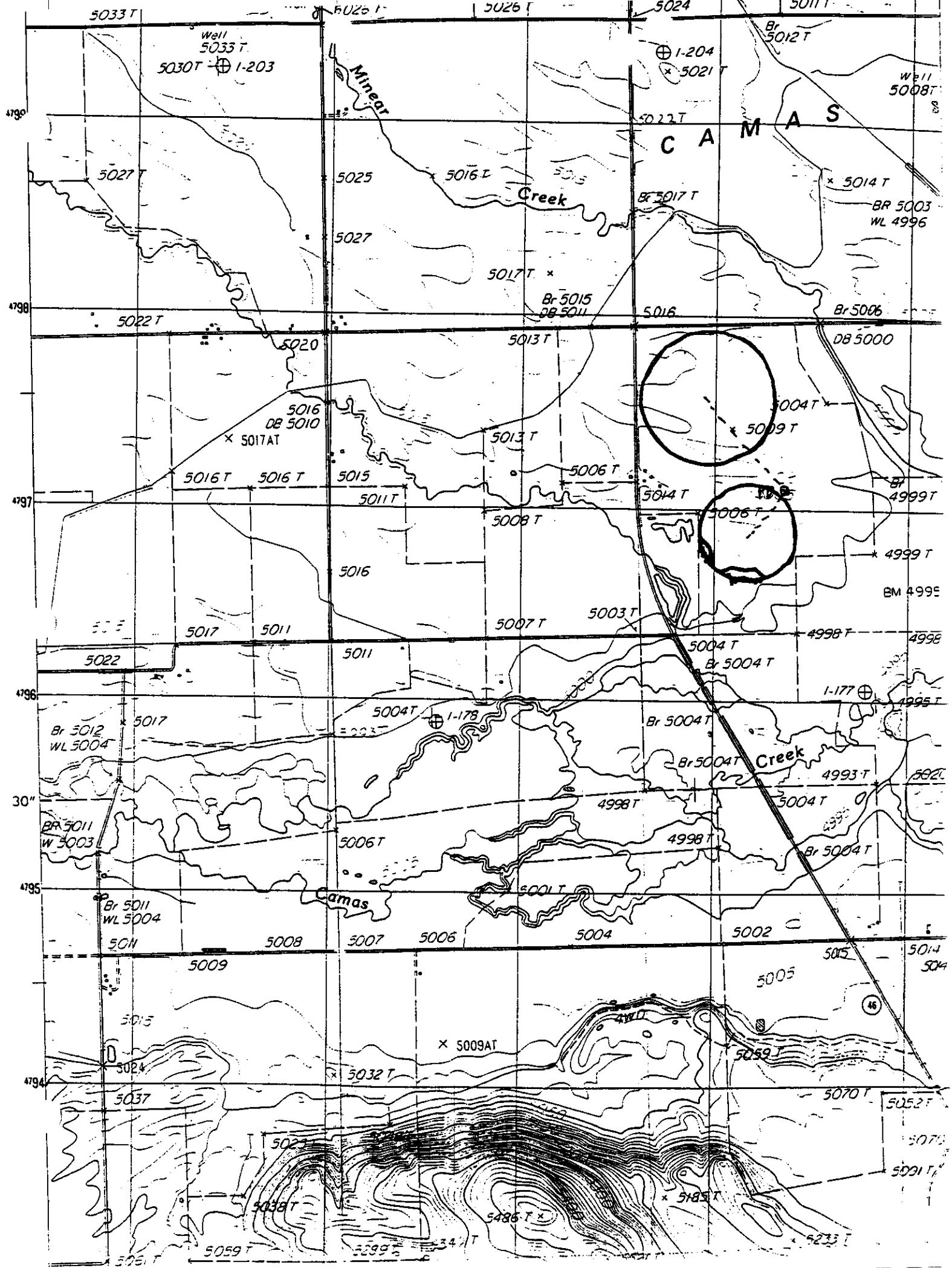
POTENTIAL =

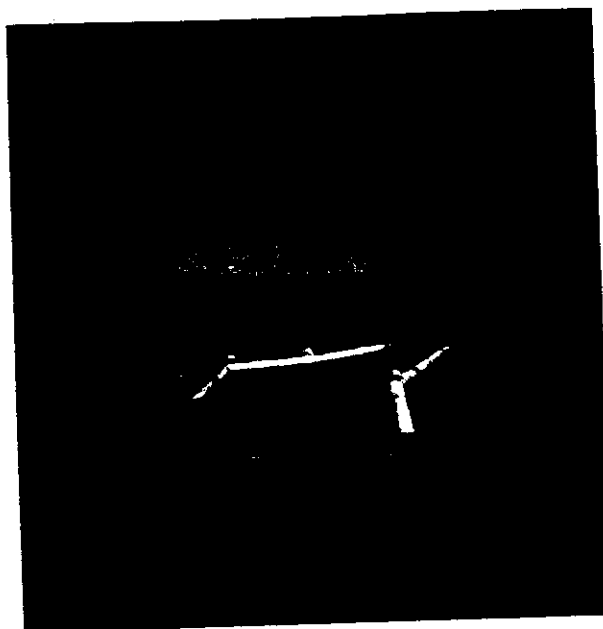
REQUIRED Acre Feet/Acre/Annum =
(AF/Ann/Ac irrigation requirement from chart for area)
NOTE that this is NOT Consumptive use

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

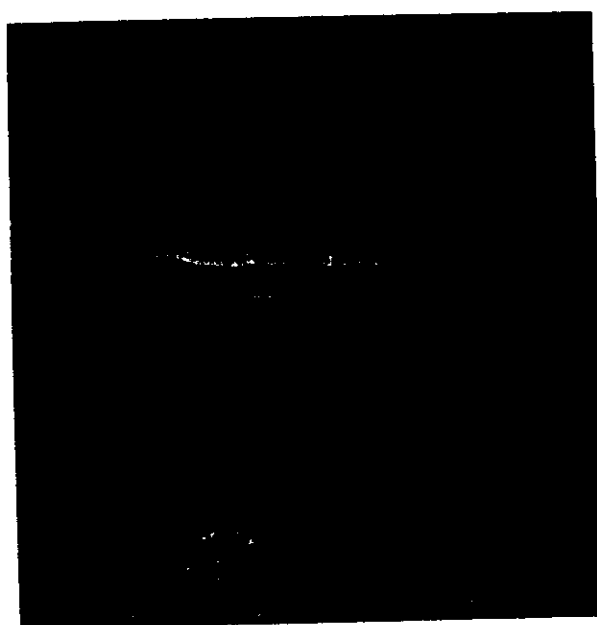








Diversion Works



South 5-tower pivot

North 7-tower pivot