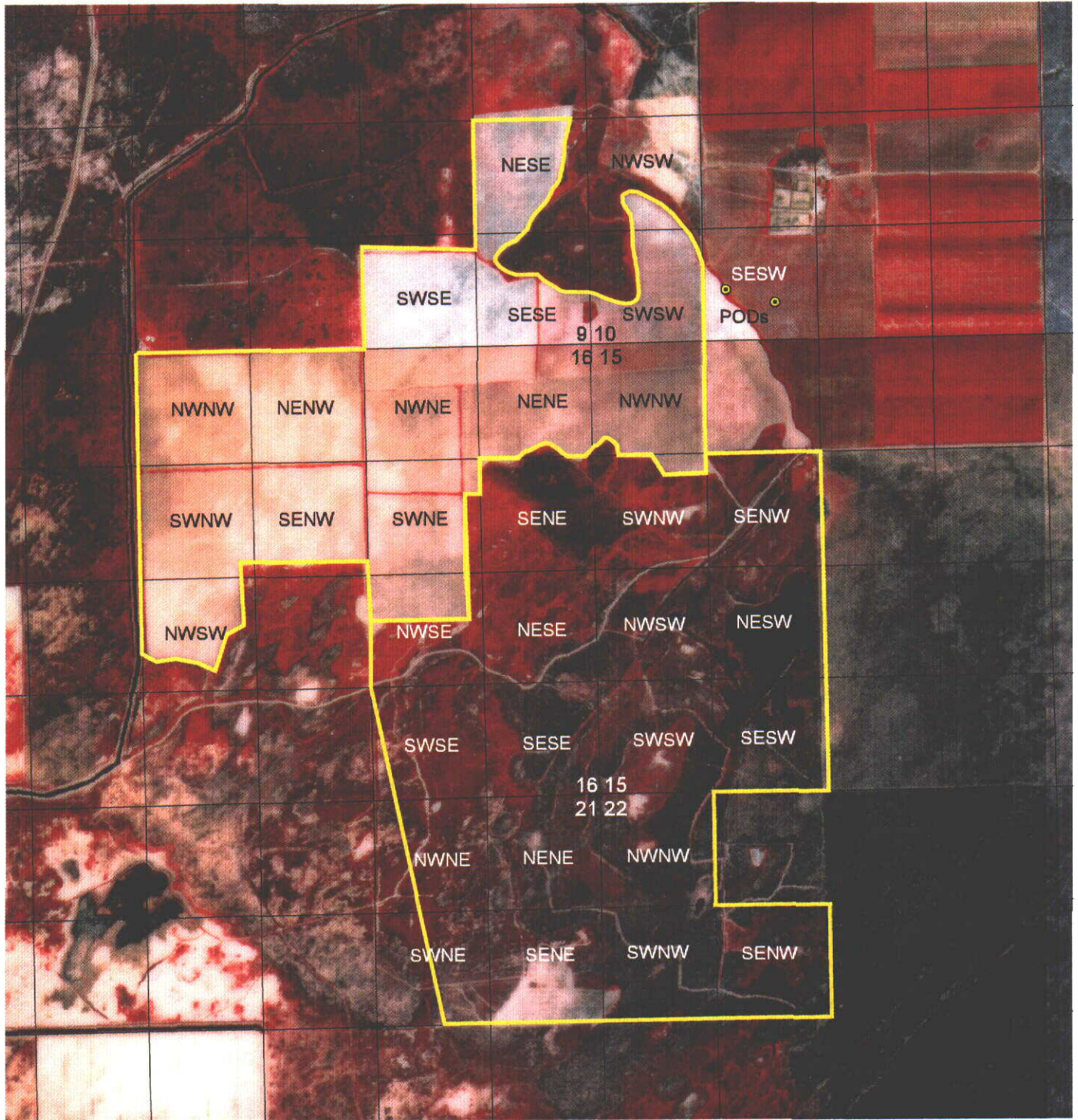


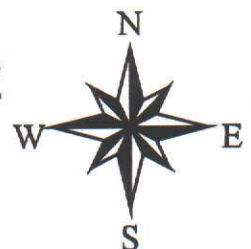
31-07311



1000 0 1000 2000 3000 4000 5000 Feet

T07N R34E S09 S10 S15 S16 S21 & S22

Map prepared by: Carter Fritschle
Date prepared by: 12/26/00
1987-1988 NAPP photography
Idaho Department of Water Resources



12/26/2000

IDAHO DEPARTMENT OF WATER RESOURCES
PRELIMINARY RECOMMENDATION OF WATER RIGHTS ACQUIRED UNDER STATE LAW

RIGHT NUMBER: 31-7311

NAME AND ADDRESS: BEN D JERNBERG
PO BOX 1442
BILLINGS, MT 59103

SOURCE: GROUND WATER

QUANTITY: 4.62 CFS

USE OF THIS RIGHT WITH RIGHT NO. 31-02357 IS LIMITED TO A
TOTAL COMBINED ANNUAL DIVERSION VOLUME OF 1613.5 AF.

PRIORITY DATE: 04/23/1979

POINT OF DIVERSION:	T07N R34E S10	SWSESW	Within JEFFERSON County
	T07N R34E S10	SESESW	Within JEFFERSON County

PURPOSE AND
PERIOD OF USE:

<u>PURPOSE OF USE</u>	<u>PERIOD OF USE</u>	<u>QUANTITY</u>
IRRIGATION	04-15 10-15	4.62 CFS

THE USE OF WATER FOR IRRIGATION UNDER THIS RIGHT MAY BEGIN AS EARLY AS APRIL 1 AND MAY CONTINUE TO AS LATE AS OCTOBER 31, PROVIDED OTHER ELEMENTS OF THE RIGHT ARE NOT EXCEEDED. THE USE OF WATER BEFORE APRIL 15 AND AFTER OCTOBER 15 UNDER THIS REMARK IS SUBORDINATE TO ALL WATER RIGHTS HAVING NO SUBORDINATED EARLY OR LATE IRRIGATION USE AND A PRIORITY DATE EARLIER THAN THE DATE A PARTIAL DECREE IS ENTERED FOR THIS RIGHT.

PLACE OF USE:

IRRIGATION within JEFFERSON
County

T07N R34E S10	NWSW	4	T07N R34E S10	SWSW	28
T07N R34E S15	NWNW	39	T07N R34E S15	SWNW	5
T07N R34E S16	NENE	39	T07N R34E S16	NWNE	40
T07N R34E S16	SWNE	34	T07N R34E S16	NENW	40
T07N R34E S16	NWNW	39	T07N R34E S16	SWNW	38
T07N R34E S16	SENE	34	T07N R34E S16	NWSW	20
T07N R34E S16	NWSE	15	T07N R34E S9	NESE	33
T07N R34E S9	SWSE	27	T07N R34E S9	SESE	26

461 ACRES TOTAL

USE OF THIS RIGHT WITH RIGHT NO. 31-02357 IS LIMITED TO THE IRRIGATION OF A COMBINED TOTAL OF 461 ACRES IN A SINGLE IRRIGATION SEASON.

OTHER PROVISIONS NECESSARY FOR DEFINITION OR ADMINISTRATION OF THIS WATER RIGHT:

THIS PARTIAL DECREE IS SUBJECT TO SUCH GENERAL PROVISIONS NECESSARY FOR THE DEFINITION OF THE RIGHTS OR FOR THE EFFICIENT ADMINISTRATION OF THE WATER RIGHTS AS MAY BE ULTIMATELY DETERMINED BY THE COURT AT A POINT IN TIME NO LATER THAN THE ENTRY OF A FINAL UNIFIED DECREE. SECTION 42-1412(6), IDAHO CODE.

WATER DIVERTED UNDER THIS RIGHT, AND AN ADDITIONAL 4.99 CFS OF GROUND WATER DIVERTED FROM THE POINTS OF DIVERSION DESCRIBED ABOVE MAY ALSO BE DIVERTED ONTO 663 ACRES OF UNCULTIVATED PASTURE LOCATED IN T07N, R34E, SECTIONS 15, 16, 21, AND 22, BUT THIS ADDITIONAL USE IS NOT AN APPURTENANCE OF THE LAND UPON WHICH IT OCCURS.

EXPLANATORY MATERIAL: BASIS OF CLAIM - License

ANY APPLICATION FOR TRANSFER PROPOSING TO CHANGE THE POINT OF DIVERSION, PLACE OF USE, NATURE OF USE, OR PERIOD OF USE OF THIS RIGHT OR ANY PORTION OF THIS RIGHT SHALL INCLUDE FOR CONSIDERATION BY THE DIRECTOR THE ENTIRE USE OF WATER ON THE UNCULTIVATED PASTURE LAND REFERENCED ABOVE. ACTION TAKEN BY THE DIRECTOR ON ANY SUCH TRANSFER APPLICATION MAY INCLUDE MODIFICATION OR CURTAILMENT OF ALL OR ANY PART OF THE USE OF WATER ON THE UNCULTIVATED PASTURE LAND.

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

RECEIVED

APR 01 1991

Ident. Number: A31-07311
Date Received: 3/31/1989
Receipt No: C006140
Received By: _____

Department of Water Resources

NOTICE OF CLAIM TO A WATER RIGHT
ACQUIRED UNDER STATE LAW

1. Name: BEN D. JERNBERG
Address: P.O. BOX 1442
BILLINGS, MT

2. Date of Priority: APR 23, 1991

3. Source: GROUNDWATER

4. Point of Diversion:

Township Range Section 1/4 of
07N 34E 10

5. Description of diverting works:
WELL, PUMP, OPEN DITCHES

6. Water is used for the following pu

Purpose
IRRIGATION

From
04/01

late fees pd 44-91
on C020083
13.450

A.F.A.

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

A.F.A.

8. Total consumptive use is 2810.0 Acre Feet Per Annum.

9. Non-irrigation uses:

10. Place of Use:

Township	Range	Section	1/4 of	1/4	Lot	Use	Acres
07N	34E	9	NE	SE		IRR	33.0
			SW	SE		IRR	27.0
			SE	SE		IRR	26.0

A31-07311

Page 1

Date: 03/15/91

MICROFILMED

NOV 17 1992

10. Place of Use: Continued

Township	Range	Section	1/4 of 1/4	Lot	Use	Acres
					Section Acres	86.0
		10	NW	SW	IRR	4.0
			SW	SW	IRR	28.0
					Section Acres	32.0
		15	NW	NW	IRR	39.0
			SW	NW	IRR	39.0
			SE	NW	IRR	38.0
			NE	SW	IRR	40.0
			NW	SW	IRR	39.0
			SW	SW	IRR	40.0
			SE	SW	IRR	40.0
					Section Acres	275.0
		16	NE	NE	IRR	39.0
			NW	NE	IRR	40.0
			SW	NE	IRR	40.0
			SE	NE	IRR	40.0
			NE	NW	IRR	40.0
			NW	NW	IRR	39.0
			SW	NW	IRR	38.0
			SE	NW	IRR	34.0
			NW	SW	IRR	20.0
			NE	SE	IRR	39.0
			NW	SE	IRR	39.0
			SW	SE	IRR	33.0
			SE	SE	IRR	40.0
					Section Acres	481.0
		21	NE	NE	IRR	40.0
			NW	NE	IRR	27.0
			SW	NE	IRR	23.0
			SE	NE	IRR	40.0
					Section Acres	130.0
		22	NW	NW	IRR	40.0
			SW	NW	IRR	40.0
			SE	NW	IRR	40.0
					Section Acres	120.0
					Total Acres	1124.0

11. Place of use in counties: JEFFERSON

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

13. Other Water Rights Used:
A31-02357, A31-02395.

14. Remarks:
REINSTATED 8-21-1984.

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 _____ wish to receive and pay a small annual fee for monthly copies of the docket sheet.

Number of attachments: _____

For Individuals:

I/We do solemnly swear or affirm that the statements contained in the foregoing document are true and correct.

Signature of Claimant(s): Ben W. Jernberg Date: 3-27-91
Date: _____

State of ~~Idaho~~ Montana)
County of Yellowstone) SS.

Subscribed and sworn (or affirmed) before me this 27th day
of March 19 91

[Signature]
Notary Public

Residing at Billings
My Commission Expires Oct. 1, 1991

NOTARY PUBLIC for the State of Montana
Residing at Billings, Montana
My Commission Expires October 1, 1991

Seal

50+1124=61174

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

RECEIVED
MAR 31 1989

Ident. Number: A31-07311
Date Received: 3/10/1989
Receipt No:
Received By: CODG140
Emc
0020083

NOTICE OF CLAIM TO A WATER RIGHT
ACQUIRED UNDER STATE LAW

Department of Water Resources

1. Name: BEN D. JERNBERG 406-252-6072
Address: P.O. BOX 1442
BILLINGS, MT 59103

2. Date of Priority: APR 23, 1979

3. Source: GROUNDWATER Trib. to:

4. Point of Diversion:

Township	Range	Section	1/4 of	1/4 of	1/4	Lot	County
07N	34E	10		SE	SW		JEFFERSON

5. Description of diverting works:
WELL, PUMP, OPEN DITCHES

6. Water is used for the following purposes:

Purpose	From	To	C.F.S.	(or)	A.F.A.
IRRIGATION	04/01	11/01	13.450		

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

8. Total consumptive use is 2810.0 Acre Feet Per Annum.

9. Non-irrigation uses:

10. Place of Use:

Township	Range	Section	1/4 of	1/4	Lot	Use	Acres
07N	34E	9	NE	SE		IRR	33.0
			SW	SE		IRR	27.0
			SE	SE		IRR	26.0
Section Acres							86.0

A3107311

MICROFILMED
NOV 17 1992

10. Place of Use: Continued

Township	Range	Section	1/4 of	1/4	Lot	Use	Acres
07N	34E	10	NW	SW		IRR	4.0
			SW	SW		IRR	28.0
			Section Acres				32.0
		15	NW	NW		IRR	39.0
			SW	NW		IRR	39.0
			SE	NW		IRR	38.0
			NE	SW		IRR	40.0
			NW	SW		IRR	39.0
			SW	SW		IRR	40.0
			SE	SW		IRR	40.0
			Section Acres				275.0
		16	NE	NE		IRR	39.0
			NW	NE		IRR	40.0
			SW	NE		IRR	40.0
			SE	NE		IRR	40.0
			NE	NW		IRR	40.0
			NW	NW		IRR	39.0
			SW	NW		IRR	38.0
			SE	NW		IRR	34.0
			NW	SW		IRR	20.0
			NE	SE		IRR	39.0
			NW	SE		IRR	39.0
			SW	SE		IRR	33.0
			SE	SE		IRR	40.0
			Section Acres				481.0
		21	NE	NE		IRR	40.0
			NW	NE		IRR	27.0
			SW	NE		IRR	23.0
			SE	NE		IRR	40.0
			Section Acres				130.0
		22	NW	NW		IRR	40.0
			SW	NW		IRR	40.0
			SE	NW		IRR	40.0
			Section Acres				120.0
			Total Acres				1124.0

11. Place of use in counties: JEFFERSON

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

13. Other Water Rights Used:
A31-02357, A31-02395.

14. Remarks:
REINSTATED 8-21-1984.

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 _____ wish to receive and pay a small annual fee for monthly copies of the docket sheet.

Number of attachments: _____

For Individuals:

I/We do solemnly swear or affirm that the statements contained in the foregoing document are true and correct.

Signature of Claimant(s): Bert W. Jensenburg Date: 3-10-89
Date: _____

State of Idaho)
County of Bonneville) SS.

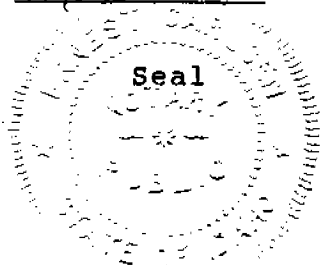
Subscribed and sworn (or affirmed) before me this 10 day

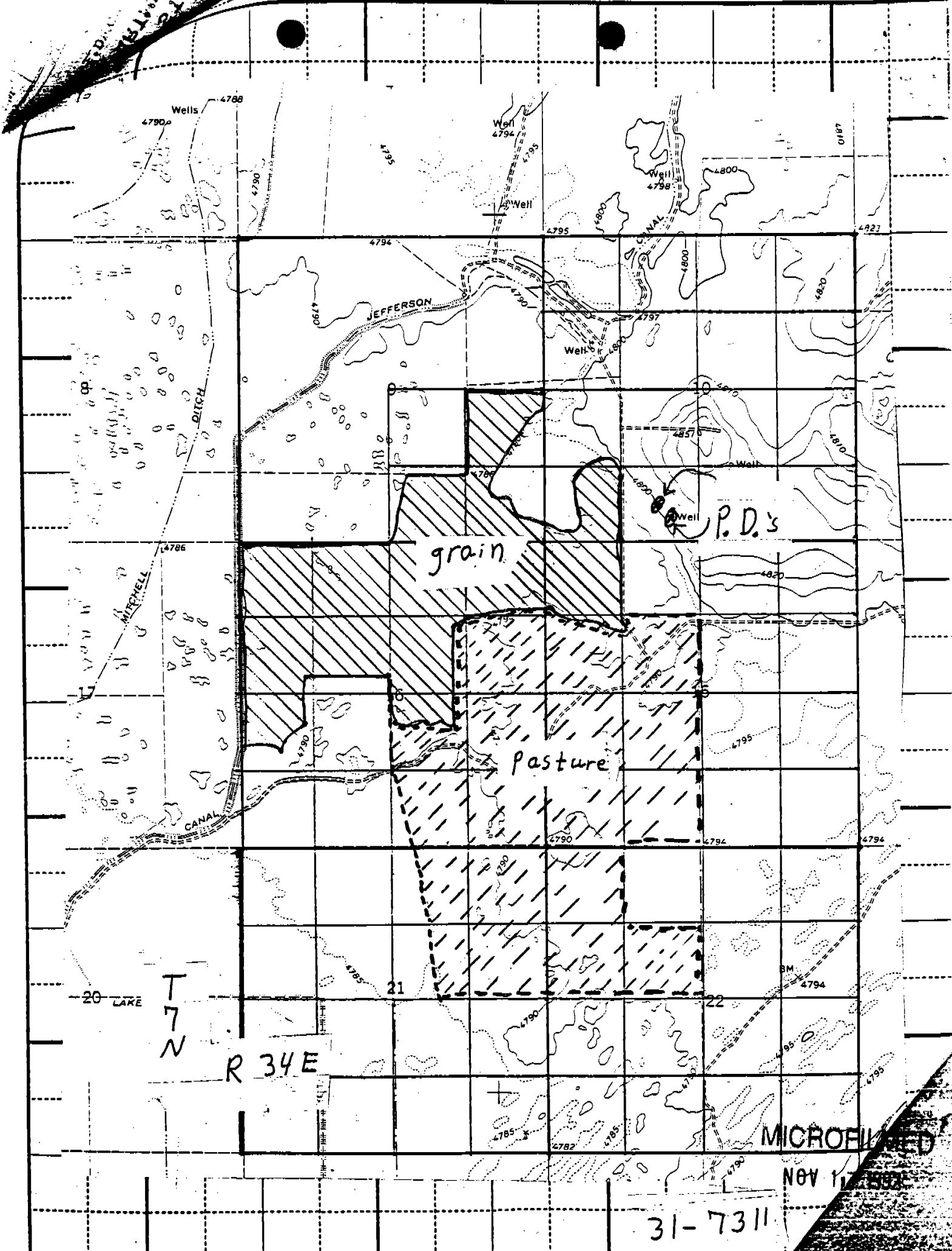
of March 19 89.

Ernest Carlson
Notary Public

Residing at Blake Falls, W.

My Commission Expires 14 June 1994





Wells 4788

4790

Well 4794

Well 4798

Well

Well

Well

P.D.'s

grain

pasture

T 7 N

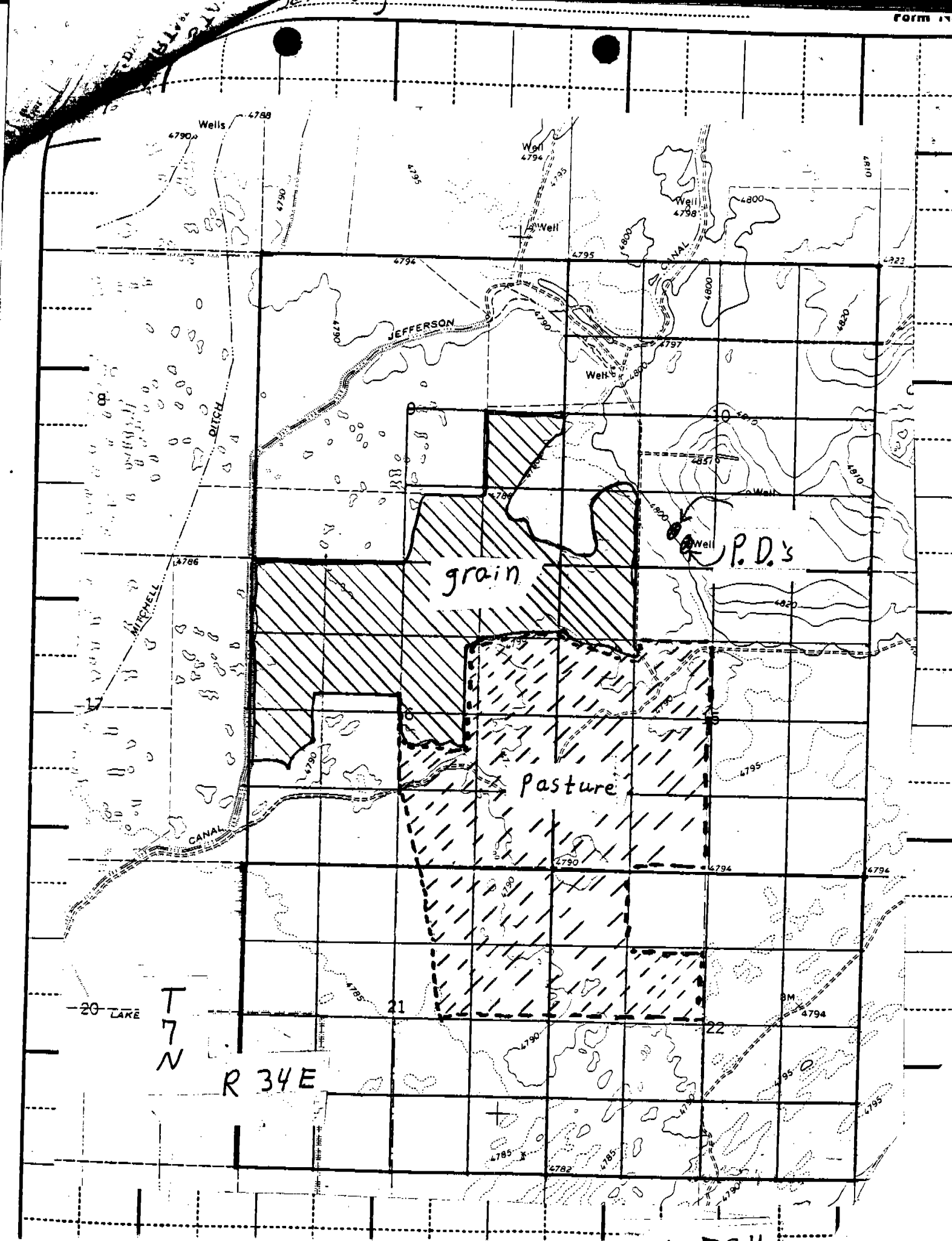
R 34 E

20 LAKE

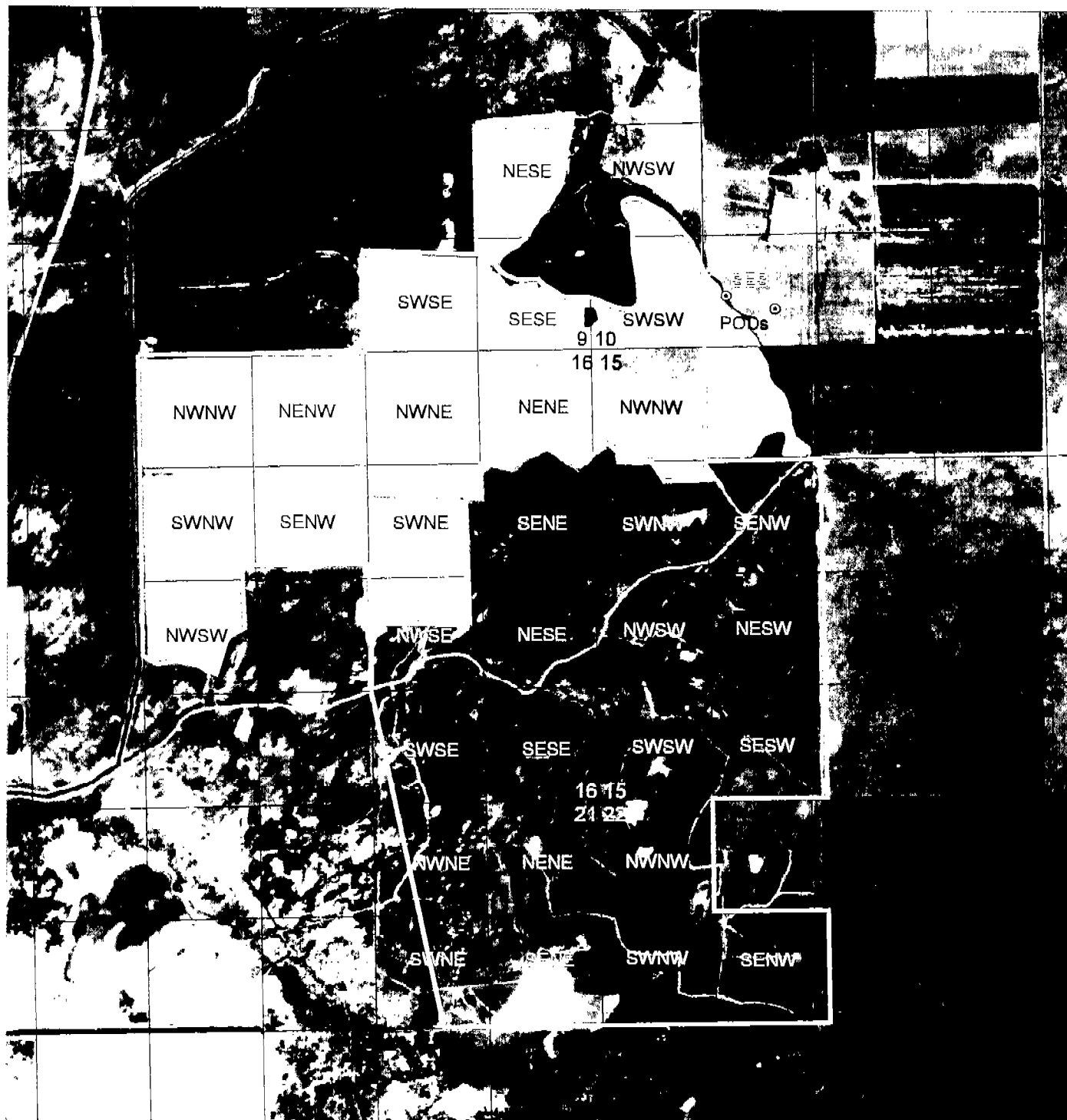
MICROFILMED

NOV 17 1982

31-7311



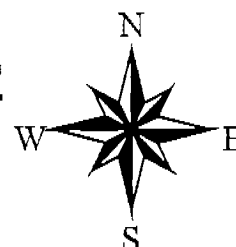
31-07311



1000 0 1000 2000 3000 4000 5000 Feet

T07N R34E S09 S10 S15 S16 S21 & S22

Map prepared by: Carter Fritschle
 Date prepared by: 12/26/00
 1987-1988 NAPP photography
 Idaho Department of Water Resources



**NOTICE OF ERROR
REPLY**

Please type or print clearly, fill out this form completely and mail.

Return this reply form to IDWR by the deadline date printed below if you want IDWR to change your recommendation or you want to let IDWR know that you agree with its recommendation.

YOUR DEADLINE FOR RETURNING A NOTICE OF ERROR REPLY IS: March 9, 2001

Water right number: 31-7311

BEN D JERNBERG
PO BOX 1442
BILLINGS MT 59103
Telephone Number: (406)252-6072

1. Describe the portion of the proposed recommendation with which you disagree (e.g. priority date, period of use, source):

2. Describe the changes you wish to make in the proposed recommendation:

3. Give a brief explanation as to why you disagree with these portions:

I have a license for 461 acres of ground I would like to be able to irrigate that much ground

☒ I AGREE with this proposed recommendation; no changes need to be made.

DATE: 3-2-01 SIGNATURE: Ben D Jernberg
Please print your name: Ben "D" Jernberg

IDWR Regional Office, 900 N Skyline Dr Ste A, Idaho Falls, ID 83402, 2085257161

31-7311 Recommended as licensed for 461 acres. Remark allows language to allow irrigation of 663 ac. of additional pasture land in which the water is not an appurtenance.

CEIVED

2062501

4-3-01

Idaho Water Right
Jern Region

MAR 9 8 2001

Department of Water Resources
Eastern Region

CHANGE IN ADDRESS

This form is solely for purposes of notifying IDWR of a change in address of an adjudication claim.

☒ Water Right Number(s): 31-2395
31-7311
31-2357

☒ Old Mailing Address: 3190 Sycamore Ln. - Contact ID# 291813
Billings, Mt. 59102

From May 1 To Nov. 1

☒ New Mailing Address: 14306 W Morningstar Tr. - Contact ID# 291815
Surprise, Az. 85374

From Nov 1 To May 1

☒ Telephone Number: 623-214-1830 surprise 406 252-6072 Billings

☒ Signature of Claimant: Ken To Junburg

☒ Date: 3-2-01

FOR IDWR USE ONLY:

Initial Review and Data-Entry

Date: By:

Further Action Needed:

Further Action Taken

Date: By:

Final Review and Data-Entry

Date: By:

Ben, If you want
 Future mailings to
 Go to your AZ address
 also. You need to fill
 this out and make
 a note that this is
 an additional address.

Done
 CW 3/6/01

Craig
 Saxton



State of Idaho

DEPARTMENT OF WATER RESOURCES

1301 North Orchard Street, P.O. Box 83720, Boise, Idaho 83720-0098

Phone: (208) 327-7900 FAX: (208) 327-7866 www.idwr.state.id.us

DIRK KEMPTHORNE
Governor

KARL J. DREHER
Director

April 11, 2001

BEN D JERNBERG
3170 SYCAMORE LN
BILLINGS MT 59102

RE: Snake River Basin Adjudication (SRBA) Claim Nos. 31-02357, 31-02395 and 31-07311

Dear Claimant:

I have reviewed the Notices of Error (NOE) you returned for the claims referenced above, and I am unable to make any changes to the recommendations at this time.

The NOE for 31-02357 states you have a license to irrigate 461 acres. That is true, but it is license 31-07311, not license 31-02357. License 31-02357 was issued for the irrigation of 356 acres. The recommendation for 31-02357 limits it to the irrigation to 356 acres within a common permissible place of use for licenses 31-02357 and 31-07311 of 461 acres.

The NOE for 31-02395 states you have a license to irrigate 672.9 acres. I was unable to find a license for 672.9 acres; however, license 31-07311 has a provision to divert an additional 4.99 cubic feet per second (cfs) onto 663 acres of uncultivated pasture. License 31-02395 was issued for the irrigation of 324 acres. Most of the 324 acres licensed are within the 663 acres of uncultivated pasture described in license 31-07311. Of the 324 acres licensed for 31-02395, 9.9 acres are in addition to the 663 acres of uncultivated pasture described in license 31-07311. The recommendation for 31-02395 allows for the irrigation of 324 acres within a permissible place of use of 672.9 acres (9.9 acres + 663 acres = 672.9 acres).

The NOE for 31-07311 states you have a license to irrigate 461 acres. That is true, and that is what has been recommended for 31-07311.

Please contact me at (208) 327-7939 if you have any questions.

Sincerely,

A handwritten signature in cursive script, appearing to read 'Carter Fritschle', is written over a horizontal line.

Carter Fritschle
Water Rights Supervisor
Adjudication Bureau

cc Ben D Jernberg
14306 W Morning Star Tr.
Surprise, AZ 85374

Jernberg

31-02357, 31-02395 & 31-07311

c4
12-26-00

31-02357 4.60 cfs on 356 acres (Part of 461 cultivated

31-02395 3.65 cfs on 324 acres (Part of 672.9 Pasture

31-07311 { 4.62 cfs on 461 acres cultivated
4.99 cfs on 663 pasture (Part of 672.9 Pasture)
17.86 cfs

Capacity = 19.28 cfs No combined diversion rate limit needed

356 acres x 3.5 AF/acre = 1246 AF limit for 31-02357
461 acres x 3.5 AF/acre = 1613.5 AF Combined limit
for 31-02357 &
31-07311

324 acres x 3.5 AF/acre = 1134 AF < limit for 31-02395

3.65 cfs x 1.9835 x 214 days = 1549.3 AF

No volume for pasture described in 31-07311.

State of Idaho
Department of Water Resources

WATER RIGHT LICENSE

WATER RIGHT NO. 31-07311

Priority: April 23, 1979

Maximum Diversion Rate: 4.62 CFS

Maximum Diversion Volume: 367.5 AF

This is to certify, that DAVID R JERNBERG
BEN D JERNBERG

3170 SYCAMORE LN
BILLINGS MT 59102

has complied with the terms and conditions of the permit, issued pursuant to Application for Permit dated February 20, 1979; and has submitted Proof of Beneficial Use on August 2, 1984. An examination indicates that the works have a diversion capacity of 19.280 cfs of water from a GROUNDWATER source, and a water right has been established as follows:

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>RATE OF DIVERSION</u>	<u>ANNUAL VOLUME</u>
IRRIGATION	04/15 to 10/15	4.62 CFS	367.5 AF

LOCATION OF POINT(S) OF DIVERSION: SESW , Sec. 10, Township 07N, Range 34E
JEFFERSON County

PLACE OF USE: IRRIGATION

<u>TWN</u>	<u>RGE</u>	<u>SEC</u>	<u>ACRES</u>	<u>ACRES</u>	<u>ACRES</u>	<u>TOTAL</u>
07N	34E	9	NESE 33	SWSE 27	SESE 26	86
		10	NWSW 4	SWSW 28		32
		15	NWNW 39	SWNW 5		44
		16	NENE 39	NWNE 40	SWNE 34	
			NENW 40	NWNW 39	SWNW 38	
			SENW 34	NWSW 20	NWSE 15	299

Total number of acres irrigated: 461

CONDITIONS OF APPROVAL AND REMARKS

1. The maximum diversion volume is defined as the maximum allowable volume of water that may be diverted annually from the source under this right. The use of water confirmed by this right is limited to the amount that can actually be beneficially used. The maximum diversion volume may be adjusted to more accurately describe the beneficial use or to implement accepted standards of diversion and use efficiency.
2. This water right is appurtenant to the described place of use.
3. This right is subject to all prior water rights and may be forfeited by five years of non-use.
4. Modifications to or variance from this license must be made within the limits of Section 42-222, Idaho Code, or the applicable Idaho law.
5. This right when combined with all other rights shall provide no more than .02 cfs per acre nor more than 3.5 afa per acre for irrigation of the lands above.

MICROFILMED
SEP 10 1987

State of Idaho
Department of Water Resources**WATER RIGHT LICENSE**

WATER RIGHT NO. 31-07311

CONDITIONS OF APPROVAL AND REMARKS

6. Water diverted under this right, and an additional 4.99 cfs of ground water diverted from the points of diversion described above, may also be diverted onto 663 acres of uncultivated pasture located in Sections 15, 16, 21, and 22 of Township 7 North, Range 34 East, B.M., but this additional use is not an appurtenance of the land upon which it occurs.
7. Two points of diversion are located in the SE¹/₄, S10, T7N, R34E.
8. Rights 31-02357 and 31-02395 are also diverted from the points of diversion described above.
9. Any application for transfer proposing to change the point of diversion, place of use, nature of use, or period of use of this right or any portion of this right shall include for consideration by the director the entire use of water on the uncultivated pasture land referenced above. Action taken by the director on any such transfer application may include modification or curtailment of all or any part of the use of water on the uncultivated pasture land.

This license is issued pursuant to the provisions of Section 42-219, Idaho Code.
Witness the seal and signature of the Director, affixed at Boise, this 5th
day of SEPTEMBER, 1997.


KARL J. DREHER, Director
Acting for

MICROFILMED

SEP 10 1997

From: DWR03::SHAW 21-JUL-1994 09:31:45.72
To: FRITSCHLE, DWR70::CARLSEN
CC:
Subj: A31-07311

Please be sure this claim is investigated in the field. There is a pending license for this right but the field exam shows some acres that appear to be questionable as to actual water use. The file shows 500+ acres as irrigated crop land and another 600+ acres of "natural pasture" which looks much like sage brush in the photos.

I don't know how the recommendation got made to license the natural pasture part of the permit but we need to review what is being done now and if all the acres are being cropped to establish when the 600+ acres were put into crop land. Unless the field investigation shows something the photos don't I doubt the "natural pasture" would meet the requirements for beneficial use. If we don't find the water has been put to beneficial use Norm seems willing to change the license accordingly before it is issued.

Please let me know if you have any questions.
Thanks
Dave

25 JULY 94 - TELECON to CARTER F. - HE HAS FILE AND PLANS
TO CONDUCT FIELD INSPECTION IN SEPT. NO ACTION NEEDED
FROM REGIONAL OFFICE UNLESS REQUESTED. EMC.

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

Permit No. _____

Phone No. 406-252-6072

Phone No. 406-252-6072

EXAM. DATE: 8-21-86

Phone No. 663-4496

Phone No. 663-4496

Phone No. 663-4496

1. Other water rights with same place of use: 31-2357, 31-2395

☒ Copies Attached

2. Other water rights with same point of diversion: 31-2357, 31-2395 Both from
East Well ☒ Copies Attached ☒ Copies of Field Exam's Attached

☒ Copies Attached☒ Copies of Field Exam's Attached

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

☒ Alternative diagram attached

1. The first step in the process of the investigation is the identification of the problem. This involves a thorough review of the available information and a clear definition of the issue at hand. Once the problem is identified, the next step is to gather relevant data and information. This can be done through various methods, including interviews, surveys, and document analysis. The gathered information is then analyzed to identify patterns, trends, and potential causes of the problem. This analysis is crucial in determining the scope and nature of the investigation. The next step is to develop a plan of action. This involves identifying the specific steps that need to be taken to address the problem and the resources required to implement these steps. The plan should be realistic and achievable, taking into account the available resources and the time constraints. Once the plan is developed, the next step is to implement it. This involves carrying out the specific actions outlined in the plan and monitoring the progress of the investigation. The final step is to evaluate the results of the investigation. This involves comparing the findings to the original problem and determining whether the problem has been resolved or if further action is needed. The evaluation should also consider the effectiveness of the investigation process and the impact of the findings on the organization. In conclusion, the process of investigation is a systematic and structured approach to identifying and solving problems. It involves a series of steps, from problem identification to evaluation, each of which is crucial in ensuring the effectiveness of the investigation. By following this process, organizations can effectively address their problems and improve their performance.

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).

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

East Well₂ pump open discharges downstream
from west Well₁.

* Note ditch flow can be reversed depending upon use.

4.

Well or Diversion Identification No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
West	N/A	?	N/A	Amarillo	580
East	U.S. Motors	60	990653	Wintroath	9767

5. Point(s) of Diversion:

[illegible]

Indicate Method of Determination

[illegible]

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
Pygmy Meter		Scientific		090187	2 1/2'	

2. Measurements:

West well = 13.45 cfs
 East Well = 5.83 cfs
 Total = 19.28 cfs
 R. P. M.: 3000 rpm @ tractor = 1000 rpm @ pump
 (3:1 reducing ratio)

E. FLOW CALCULATIONS

☒ Additional Computation Sheets Attached

1. Measured Method: See Discharge Notes

2. Alternate Method for Checking Purposes: None Available

F. PUMP EFFICIENCY DATA (Optional)

Discharge Pressure: 0 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:

$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 1124 \times 3.5 = 3934.0$
 $V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation Season}) \times 1.9835 = 16.00 \times 214 \times 1.9835 = 67915.0$
 $V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 3934.0$

2. Volume Calculations for Other Uses: None

MARKS AND OVERLAP REVIEW ANALYSIS

R 17 (31-2357/31-2395) 19.28 cfs

R 05

16.00 cfs recommended by permit

0.02 cfs/ac x 1124 ac = 22.48 cfs > 16.00 cfs

Capacity = 19.28 cfs > 16.00 cfs

* See Memo on place of use (Aug 22, 1986) *

I. RECOMMENDATIONS

1. Recommended Amounts

Beneficial Use

	Period of Use		Rate of Diversion Q (cfs)	Annual Volume V (afa)
	From	To		
Irrigation	4-1	11-1	16.00	3934.0

Totals: 16.00 cfs 3934.0 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

J. AUTHENTICATION

Field Examiner's Name John Arambarri

Signature John W. Arambarri

Certification Date 9-8-86

Field Report Preparation Date 8-21-86

CONSULTANT SEAL

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