

A35-07988
CALVIN D. MORGAN
631 N. 1200 W.

(R)

BLACKFOOT

ID 83221



A3507988

pu: 181
pod: 679



State of Idaho

DEPARTMENT OF WATER RESOURCES

900 N. Skyline Dr., Suite A, Idaho Falls, Idaho 83402-1718 - (208) 525-7161- Fax (208) 525-7177

EASTERN REGION

DIRK KEMPTHORNE
GOVERNOR

KARL J. DREHER
DIRECTOR

March 15, 1999

DENNIS CONLEY
631 N 1200 W
BLACKFOOT ID 83221

RE: NOTICE OF CHANGE OF WATER RIGHT OWNERSHIP (NCO) FOR PARTIAL
DECREE(S) 35-07988

Dear Mr. Conley:

The Department's records have been modified to reflect the change in ownership for the above referenced partial decree(s).

Enclosed for your files is a report listing you as the current owner(s). Review the form and if there are corrections or questions, feel free to contact this office.

Respectfully submitted,

Jennifer Hoagland
Technical Records Specialist

Enclosure

STATE OF IDAHO
IDAHO DEPARTMENT OF WATER RESOURCES

NOTICE OF CHANGE OF WATER RIGHT OWNERSHIP

DELOG JH 3-12-99
OK JH
DELOG DC 3-15-99
RECEIVED
MAR 12 1999
DC
OK

Please print or type. Attach pages with additional information. Instructions are on the back of this page. Department of Water Resources Eastern Region
Incomplete forms will be returned.

1. Water Right No(s).: 35-07988 - p.d.
Adjudication Claim No(s).: _____
2. The following REQUIRED information must be submitted with this form:
 - A. A copy of the most recent DEED, TITLE POLICY, CONTRACT OF SALE or other legal document indicating your ownership of the property and water rights or claims in question, WITH ATTACHED LEGAL DESCRIPTION.
AND
 - B. PLAT OF PROPERTY or SURVEY MAP for parcel of ten acres or less. (These are usually attached to your deed or on file with the county.)
OR
 - C. For water rights or adjudication claims involving ten or more irrigated acres, a USDA Farm Service Agency AERIAL PHOTO with irrigated acres outlined and point(s) of diversion clearly marked.
3. Name and Address of Former Owner/Claimant: Calvin D. Morgan
4. New Owner/Claimant(s) Dennis Conley
Name Connector (Check one): ☐ and, ☐ or, ☐ and/or
New Mailing Address 631 N. 1200 W.
City, State and ZIP Code Blackfoot, ID 83221
New Telephone Number (208) 684-3506
5. Date you acquired the property _____
6. If you have acquired only a portion of the former owner's property, IDWR may need to split the water right(s) or adjudication claim(s). If this applies, describe in detail your portion of each water right or adjudication claim in the spaces below. If necessary, attach additional pages.
Number of acres you irrigate _____ Number and type of stock _____
Diversion rate in CFS _____ Number of homes _____ Other uses _____
If a water right or adjudication claim is being split and you are not sure how to identify your portion of the original right or claim, please contact the nearest IDWR office for assistance.
7. Signature of New Owner or Claimant(s) Dennis Conley Date 3/12/99

Date _____
(Corporations or other organizations must submit a list of directors and/or officers demonstrating authority to sign form.)
8. For Snake River Basin Adjudication Claims: Please attach a Notice of Appearance completed by your attorney, if you wish IDWR to correspond with him or her for all matters related to your claims..

WARRANTY DEED

For Value Received **CAL D. MORGAN** and **CHRIS MORGAN**, husband and wife

Hereinafter called the Grantor, hereby grants, bargains, sells and conveys unto
DENNIS A. CONLEY and SHEILA M. CONLEY, husband and wife
whose address is: 631 N. 1200 W., BLACKFOOT, ID, 83221

Hereinafter called the Grantee, the following described premises situated in Bingham County, Idaho, to-wit:

A portion of Section 31, Township 1 South, Range 34 E. B. M., Bingham County, Idaho, described as Beginning at a point on the East right-of-way line of a County Road that is N. 89°57'19" E. 25.00 feet and N. 00°08'18" W. along said right-of-way 1320.00 feet from the SW corner of said Section 31, and running thence N. 00°08'18" W. 426.01 feet, thence N. 89°57'19" E. 1044.28 feet, thence S. 30°35'34" E. 494.67 feet, thence S. 89°57'19" W. 1295.00 feet to the point of beginning.

TOGETHER WITH all and singular the tenements, hereditaments, and appurtenances thereunto belonging or in anywise appertaining, including all water, water rights, ditch and ditch rights.

TO HAVE AND TO HOLD the said premises, with their appurtenances unto the said Grantee and to the Grantee's heirs and assigns forever. And the said Grantor does hereby covenant to and with the said Grantee, that the Grantor is the owner in fee simple of said premises; that said premises are free from all encumbrances except current years taxes, levies, and assessments, and except U. S. Patent reservations, restrictions, easements of record, and easements visible upon the premises, and that Grantor will warrant and defend the same from all claims whatsoever.

Dated: **DECEMBER 7, 1992**

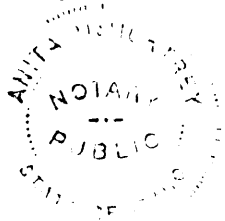
Cal D. Morgan
CAL D. MORGAN

Chris Morgan
CHRIS MORGAN

STATE OF IDAHO
COUNTY OF Bingham

)
: ss.
)

On this 7TH day of DECEMBER, 1992, before me the undersigned, a Notary Public in and for the said county and state, personally appeared CAL D. MORGAN AND CHRIS MORGAN, known or proved to me to be the persons who executed the foregoing instrument, and acknowledged to me that they executed the same.



Crista M. M. Jentke
Notary Public
Residing at: BLACKFOOT
My Commission Expires: 5/20/94

411911

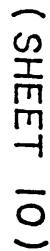
BINGHAM COUNTY RECORDER
BLACKFOOT, IDAHO

FEE 3.⁰⁰ DEP LB

92 DEC -8 AM 10: 14

RECORDED AT THE REQUEST OF
FIRST AMERICAN TITLE COMPANY

9



T. IN. 815, R. 34 8 35E.

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
1301 North Orchard Street, P.O. Box 83720
Boise, Idaho 83720-0098

ADDRESS SERVICE
REQUESTED

IMPORTANT WATER RIGHT INFORMATION

Directors Report

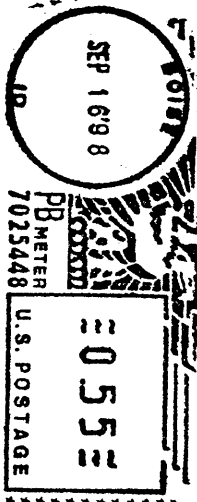
35-07988
CALVIN D MORGAN
631 N 1200 W
BLACKFOOT ID 83221

53221-5171 04

*Wrong
Address*

Department of Water Resources

RECEIVED
SEP 28 1998



Adjudication Bureau
P. O. Box 83720
Boise, ID 83720-0093

ATTEMPTED, NOT KNOWN

CALVIN D MORCOM
501 N 1200 W
BLACKFOOT

ID 83221

Wrong address

Dis Dir Rep.

ACK

RECEIVED
JUL 29 1998
Department of Water Resources

35-07988



State of Idaho

DEPARTMENT OF WATER RESOURCES

1301 North Orchard Street, Statehouse Mail, Boise, Idaho 83720-9000

Phone: (208) 327-7900 FAX: (208) 327-7866

**PHILIP E. BATT
GOVERNOR**

October 10, 1996

**KARL J. DREHER
DIRECTOR**

NEW PROPERTY OWNER
631 N 1200 W
BLACKFOOT ID 83221

RE: Snake River Basin Adjudication (SRBA)
Notice of Claim No. #A35-07988

Dear New Property Owner:

A legal notice mailed recently by IDWR was returned to us by the Post Office. The notice was mailed to an apparent former owner at your address who has or had this property or others in the area.

Before we can modify our records to reflect your new ownership of the property and water rights referenced above, we need Form 42-248/42-1409(6) completed and returned. We have enclosed this form for your use.

Please contact this office at 208/327-7862 or call us toll-free at 800/451-4129 if you have any questions.

Sincerely,

Idaho Department of Water Resources
Adjudication Bureau

SO:ss:region

Enclosure:

Form 42-248/42-1409(6)
How You Will Receive Notice ...
Docket Sheet Order Form

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
1301 North Orchard Street, P.O. Box 83720
Boise, Idaho 83720-0098

✓ A35-07988
CALVIN D MORGAN
631 N 1200 W
BLACKFOOT

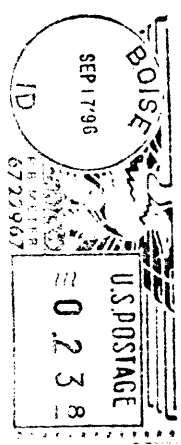
ID 83221

RECEIVED
SEP 20 1996

Department of Water Resources

UNDELIVERABLE
FOR MAILING
SEP 17 1996
FBI
BOISE

PRESORTED
FIRST CLASS



432221





State of Idaho
DEPARTMENT OF WATER RESOURCES

1301 North Orchard Street, Statehouse Mail, Boise, Idaho 83720-9000

Phone: (208) 327-7900 FAX: (208) 327-7866

CECIL D. ANDRUS
GOVERNOR

R. KEITH HIGGINSON
DIRECTOR

September 8, 1994

CALVIN D MORGAN
255 W 200 N
BLACKFOOT ID 83221-5775

Re: Snake River Basin Adjudication (SRBA)
Notice of Claim No. A35-07988
Change of Address

Dear Claimant,

IDWR has been notified by the Post Office the address presently in our claim records is incorrect. Although we have reached you at the address above, we need you to confirm this is your correct mailing address. Future notices related to your SRBA claim can be sent only to the address on your claim or as otherwise changed by you. The staff of this agency must avoid relying upon the word of others about your mailing address.

If the address above is correct, please sign your name at the bottom of this letter, and return it to this office. Otherwise, please make the proper corrections, sign, and return this letter. Thank you for your help to make sure you receive the future notices we intend to send to you that will keep you notified about SRBA matters.

If the ownership of the property to which this water right applies has changed, please call this office toll-free at 1-800/451-4129 to obtain a form to make this required change to the claim record.

Sincerely,

Adjudication Bureau Staff

SO:ss:region
Enclosure:
Notice

#####

The address is correct as shown above or as otherwise changed.

Claimant

ENCLOSURE

NOV 15 1994



State of Idaho

DEPARTMENT OF WATER RESOURCES

150 Shoup Ave., Suite 15, Idaho Falls, Idaho 83402 - (208) 525-7161

EASTERN REGION

CECIL D. ANDRUS
GOVERNOR
R. KEITH HIGGINSON
DIRECTOR

Date: May 30, 1989

A35-07988

Cal D. Morgan
631 N. 1200 W.
Blackfoot, ID 83221

RE: Water Right Claim Returned

Dear Mr. Morgan:

The Idaho Department of Water Resources (IDWR) is returning your check #2150 (\$65.00) and Notice of Claim to Water a Right because of insufficient information. All items on the claim form must be correctly completed and fees submitted before the IDWR can process the claim.

Please correct the items identified below and return the forms to the IDWR within 30 days of the date of this letter. Failure to return the corrected claim within the 30-day period may result in an assessment of an additional \$50.00 late-fee for each claim.

- I have enclosed a typed Notice of Claim of your water right based on the IDWR field examination for Permit #35-7988, conducted August 10, 1987 (see enclosed copy). The precise acreages and amounts were measured during this examination.
- Note: The priority date listed in Item #2 is the date the application for permit was originally submitted to the IDWR.

Please sign the typed Notice of Claim in Item #16, and return it to the IDWR within 30 days. Your signature must be notarized. The filing fee for the Notice of Claim is \$50.00, plus \$1.00 per irrigated acre (\$64.00).

If you have any questions, please call Tony Olenichak, Water Rights Agent, at (208)-525-7161.

Sincerely,

Tony Olenichak
for Ernest Carlsen
Ernest Carlsen
Adjudication Supervisor

MICROFILMED
DEC 10 1992

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No. 35-7988

Phone No. 526-7313

1. Owner: Calvin D. Morgan
Current Address: 631 N 1200 W. Blackfoot ID 8322

EXAM. DATE: 10 Aug 1987

2. Accompanied by: Same

Phone No. _____

Address: _____

Relationship to Permit Holder: _____

3. Source: GROUNDWATER tributary to _____

B. OVERLAP REVIEW

OVERLAP REVIEW

1. Other water rights with same place of use: 35-7987 (Same Legal Diff Plu)

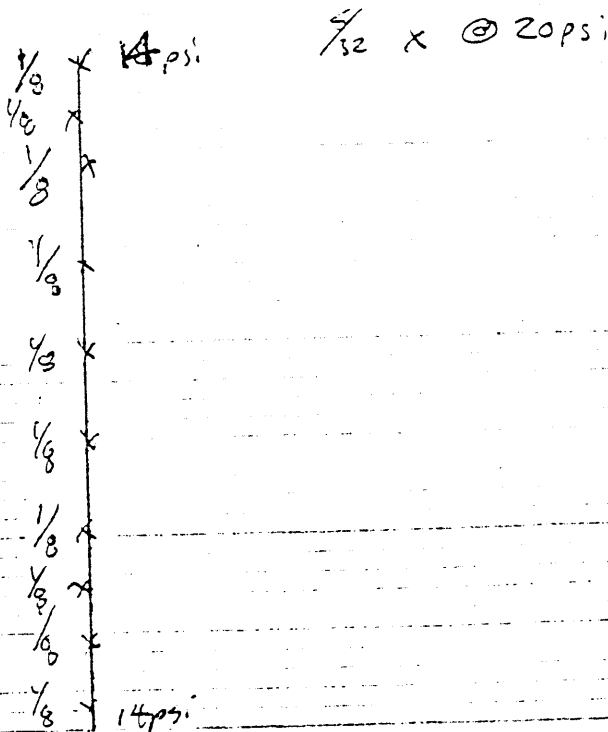
☐ Copies Attached

2. Other water rights with same point of diversion: 35-7987 (Same Legal Dpt P/d)

☐ 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" = No Scale

2. ☒ Copy of U.S.G.S. Quadrangle Attached
Showing location(s) of point(s) of diversion and
face(s) of use (required).

☒ Photo of Diversion and System Attached

☒ Aerial Photo Attached
(required for irrigation of 10 acres or more).

Photo of Diversion and System Attached
(required for all but single household domestic groundwater, and stockwater.

MICROFILM
DEC 10 1992

System Description (continued)

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

well, pump, mainline to lateral w/ sprinkler and single downer hose with pressure tank

Lift $\approx 150'$

Stockwater 5 horses at time of exam

☐ 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
Submersible Pump		3	Model # 390-22191	Sears	Control Box # SCPE # 32 (1 1/2")

*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
	3		Nw	Sw	31	15	34E	Bingham	USGS Map / On Site inspection

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	
15	34E	31									53 9	54 5							14

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DEC 10 1992

Do not use this space

D. FLOW MEASUREMENTS

☒ Additional Data Sheets Attached

1.

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date
Pitot Tube						

2. Measurements:

see C.1

E. FLOW CALCULATIONS

☒ Additional Computation Sheets Attached

1. Measured Method: SEE ATTACHED SHEET $Q_{measured} = 0.0462 \text{ cfs}$

2. Alternate Method for Checking Purposes:

Theoretical $Q = 0.0965 \text{ cfs}$

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:

$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 14 \text{ ac} \times 3.5 \text{ afc} = 49.0 \text{ afc}$
 $V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation Season}) \times 1.9835 = (0.0462 \text{ cfs}) 214 (1.9835) = 19.58 \text{ afc}$
 $V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 19.6 \text{ afc}$

2. Volume Calculations for Other Uses:

Dom Vol = 0.6 afc
Do Stock Vol = 0.7 afc

MICROFILMED
DEC 10 1992

H. REMARKS AND OVERLAP REVIEW ANALYSIS

NO OVERLAPS

Recommend licensing this right up to the theoretical capacity even though only irrigation actually measured

I. RECOMMENDATIONS

1. Recommended Amounts

Beneficial Use	Period of Use		Rate of Diversion Q (cfs)	Annual Volume V (afa)
	From	To		
IRRIGATION	4/1	4/1	0.05	19.6
STOCKWATER (10 horses 20 range cattle)	1/1	12/31	0.02	0.7
DOMESTIC (1 unit)	1/1	12/31	0.04	0.6
Totals:			0.09 cfs	20.9

2. Recommended Amendments

☐ Change P.D. as reflected above

☐ Add P.D. as reflected above

☒ None (Add Lots)

☐ Change P.U. as reflected above

☐ Add P.U. as reflected above

☐ Other

J. AUTHENTICATION

Field Examiner's Name

KEITH C. WILSON

Signature

Keith C. Wilson

Certification Date

16-Dec-1987

Field Report Preparation Date

7 Dec 1987

Steve McCormick

CONSULTANT SEAL

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

MICROFILMED
DEC 10 1992

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Owner: Calvin D. Morgan

Permit No. 35-7988

Phone No. 526-7313

Current Address: 631 N 1200 W. Blackfoot ID 83221

2. Accompanied by: Same

EXAM. DATE: 10 Aug 1987

Address:

Phone No. _____

Relationship to Permit Holder:

3. Source: GROUNDWATER tributary to

B. OVERLAP REVIEW

1. Other water rights with same place of use: 35-7987/Same Legal Diff P/4

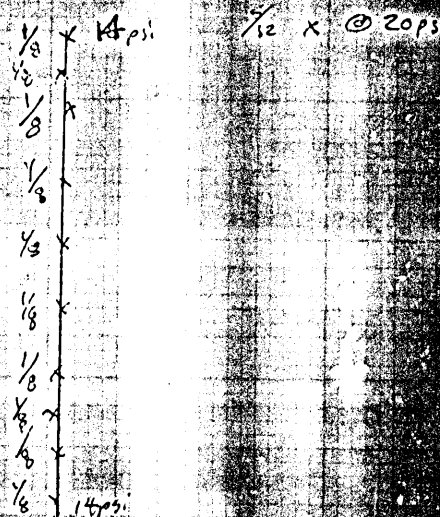
☐ Copies Attached

2. Other water rights with same point of diversion: 35-7987 (Same Legal Desc P/L)

☐ 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).

RECORDED FILMED

FEB 14 1990

System Description (continued)

3. Narrative: Description (As operating at time of measurement. Indicate pressure, number of sprinklers, etc.)
Well pump, manhole to lateral/sprinkler and single domestic house
with pressure tank

Lift a 150'

Stock water 5 hoses at time of exam

☐ See Remarks on page 4 for continuation

Well or Diversion Identification No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
Submersible Pump		3	Model # 390-2519	Sears	Control Box # SCP 432 (4")

*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
3		NW	SW		31	1S	34E	Bingham	USGS Map/On Site Inspection

6. Place(s) of Use:

Indicate Method of Determination

Twp.	Rge.	Sec.	NE 1/4				NW 1/4				SW 1/4				SE 1/4				Total
			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	34E	31																	14

Do not use this space

FEB 1 1977

Do not use this space

D. FLOW MEASUREMENTS

☒ Additional Data Sheets Attached

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date
Pitot Tube						

2. Measurements:

see C.1

E. FLOW CALCULATIONS

☒ Additional Computation Sheets Attached

1. Measured Method:

SEE ATTACHED SHEET $Q_{measured} = 0.0462 cfs$

2. Alternate Method for Checking Purposes:

Theoretical $Q = 0.0965 cfs$

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 _____ PTF x _____ N/ _____ T = _____ (6)
Meter Input HP: (6) x 1.34 = _____ (7)
Panel Input KW: _____ Ave PF x _____ Ave Volts x _____ Ave Amps x .00132 = _____ (6)
Panel Input HP: (6) x 1.34 = _____ (7) Efficiency: (5)/(7) x 100 = _____ %

G. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$V_{IR} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 14ac \times 3.5' af = 49.6 af$
 $V_{DR} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation Season}) \times 1.9835 = (0.0462 cfs) \times 214 (1965) = 19.58 af$
 $V = \text{Smaller of } V_{IR} \text{ and } V_{DR} = 19.6 af$

2. Volume Calculations for Other Uses:

Dom Vol = 0.6 af
Dom Stock Vol = 0.7 af

MICROFILMED

FEB 11 1966

H. REMARKS AND OVERLAP REVIEW ANALYSIS

NO OVERLAPS

Recommend licensing this right up to the theoretical capacity even though only irrigation actually measured

I. RECOMMENDATIONS

1. Recommended Amounts

Beneficial Use	Period of Use From To	Rate of Diversion Q (cfs)	Annual Volume V (afa)
IRRIGATION	4/1 11/1	0.05	19.6
STOCKWATER (10 horses 20 range cattle)	1/1 12/31	0.02	0.7
DONORIC (unit)	1/1 12/31	0.04	0.6
Totals:		0.09 cfs	20.9

2. Recommended Amendments

- ☐ Change P.D. as reflected above ☐ Add P.D. as reflected above
☐ Change P.U. as reflected above ☐ Add P.U. as reflected above

- ☒ None (Add Lots)
☐ Other

J. AUTHENTICATION

Field Examiner's Name KEITH C. WILSON
 Signature Keith C. Wilson
 Certification Date 16-Dec-1987
 Field Report Preparation Date 7 Dec 1987

CONSULTANT SEAL

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

Reviewed: Ryanne McCarthy 2/6/89

MICROFILMED

FEB 14 1990

FROM ERNEST

TO File -35-7988

SUBJECT - Permit holder submitted a licensing span fee of only \$50.00.
This will limit the amount of water that can be
licensed to only 0.20 cfs.

Furthermore the fee was submitted 10 days after
the 60 day period had expired. The priority of ~~the~~ ^{the} ~~license~~ ^{license}
should be ~~retained~~ advanced to 6/21/1981.

INTER-DEPARTMENT MEMO — 1

DATE July 11, 1986.

SIGNATURE

Form 219B
5/84

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
LICENSING REPORT

35-7988
Permit No.

Measurement Calculations

Analysis:

$$Q = AV = \frac{\pi d^2}{4} \sqrt{2g(P_1 + 2.30P_2)} = 0.0665 (ft)^2 \sqrt{P_1}$$

id = inch (inside diameter)

$$Q_{\frac{1}{2} \text{ nozzle}} = \left[0.0665 \left(\frac{1}{8} \right)^2 \sqrt{14} \right] 10 = 0.0389 \text{ cfs}$$

$$Q_{\frac{1}{2}} = 3.26 \text{ gpm} = 0.0073 \text{ cfs}$$

$$Q_{\text{TOTAL}} = 0.0073 \text{ cfs} + 0.0389 \text{ cfs} = 0.0462 \text{ cfs} = 20.7183 \text{ gpm}$$

Theoretical

$$Q = \frac{h_p (0.814) (cfs)}{h_{\text{total}} + (P_1 \times 2.30P_2)} = \frac{3h_p (6.614) (ft)}{150' + (30 \text{ ft} \times 2.30P_2)} = 0.0965 \text{ cfs} = 43.30 \text{ gpm}$$

RECEIVED
FEB 15 1990

