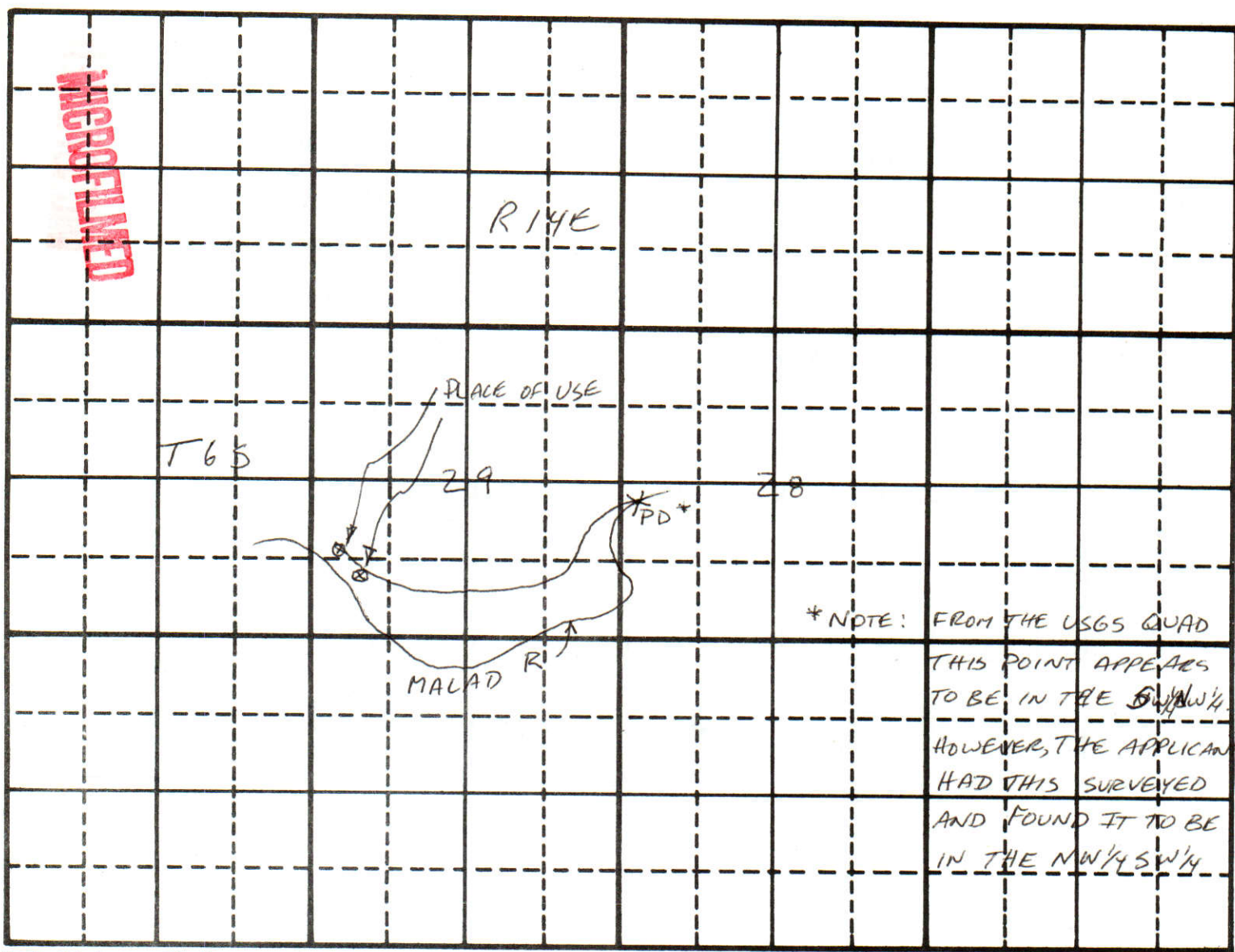


Complete the following map by showing land and point of diversion as proposed by this amendment.
 Show 40-acre subdivisions, townships, ranges and ditches.



Scale: 2 inches equal 1 mile.

That no one will be injured by such change, and that such change will be made at permit holder's own risk.

Signed at Bosco, Idaho, this 19 day of November, 1982.

[Signature]
 (Signature)

FOR DEPARTMENT USE ONLY

Preliminary check by DET Fee = \$20.00 # 25280 Received by ag Date 11-19-82

Publication prepared by _____ Date _____ Published in _____

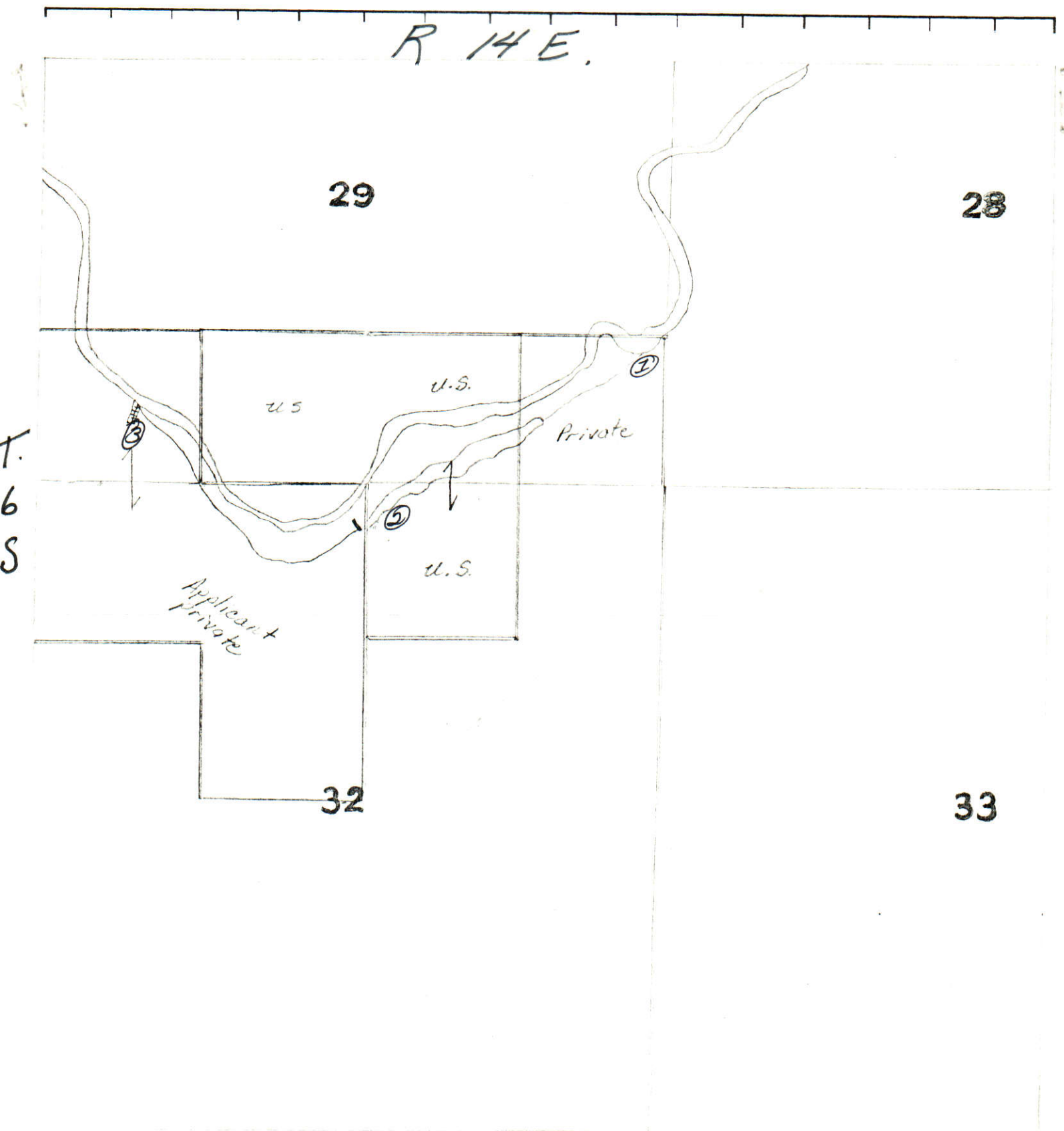
Publication dates NOT REQ'D PER CONV W/ REG SUPV 11-19-82 DET

ACTION OF THE DEPARTMENT OF WATER RESOURCES

I, L. Glen Saxton, of the Department of Water Resources hereby
 APPROVE THE ABOVE APPLICATION FOR AMENDMENT FOR PERMIT NO. 37-7865.

Witness my hand this 22nd day of Nov, 1982.
L. Glen Saxton

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



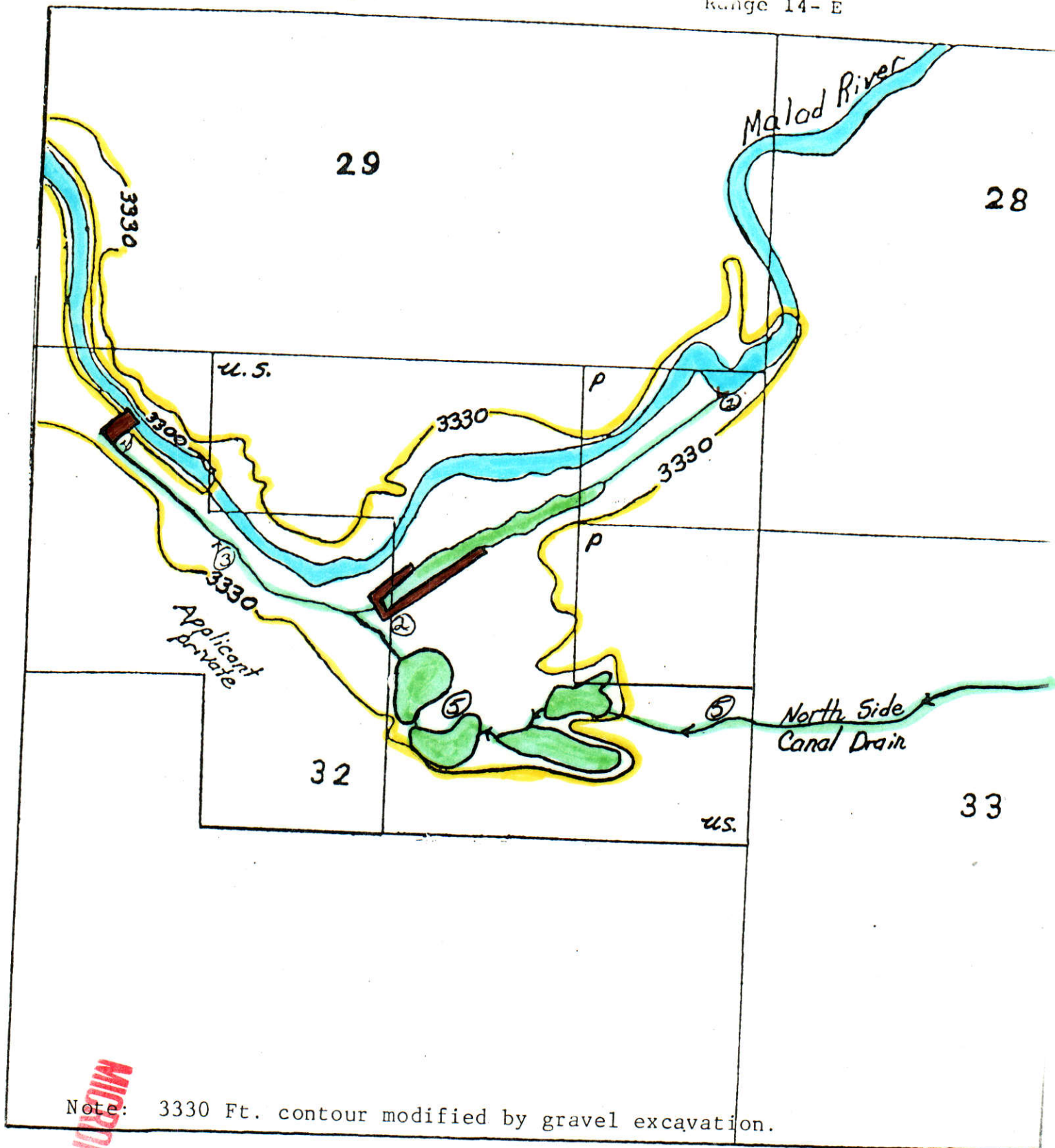
1. Point of diversion
 2. Point of West point drainage ditch entry for added flow
 3. Plant site
- Elevation of diversion 3,329
Aproximate Elevation at proposed generator 3,293

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.

Arnon R. [Signature]
(Applicant)

MICROFILMED



Note: 3330 Ft. contour modified by gravel excavation.

1. Dry Bed Natural Diversion
2. Control Dam & Dykes in natural dry bed
3. Constructed Canal or Pipe Syphons
4. Power Plant Site
5. Ponds and Waterway on canal drainage

Proposed Plant
 30' drop
 150 CFS flow
 KW Capacity 315
 Average Calculated Production
 KW 295.4
 Diversion Elevation 3,329'
 Turbine Elevation 3,293'

**NOTICE OF APPLICATION
FOR WATER RIGHT**

Notice is hereby given
that the following applica-
tion(s) have been submitted
for permit to appropriate the
public waters of the State of
Idaho:

37-7865

RAVENS CROFT, VERNON
F.
P.O. BOX 893, BOISE, ID
83701

Source: MALAD RIVER
tributary to SNAKE RIVER

Date Filed: 10/30/1980

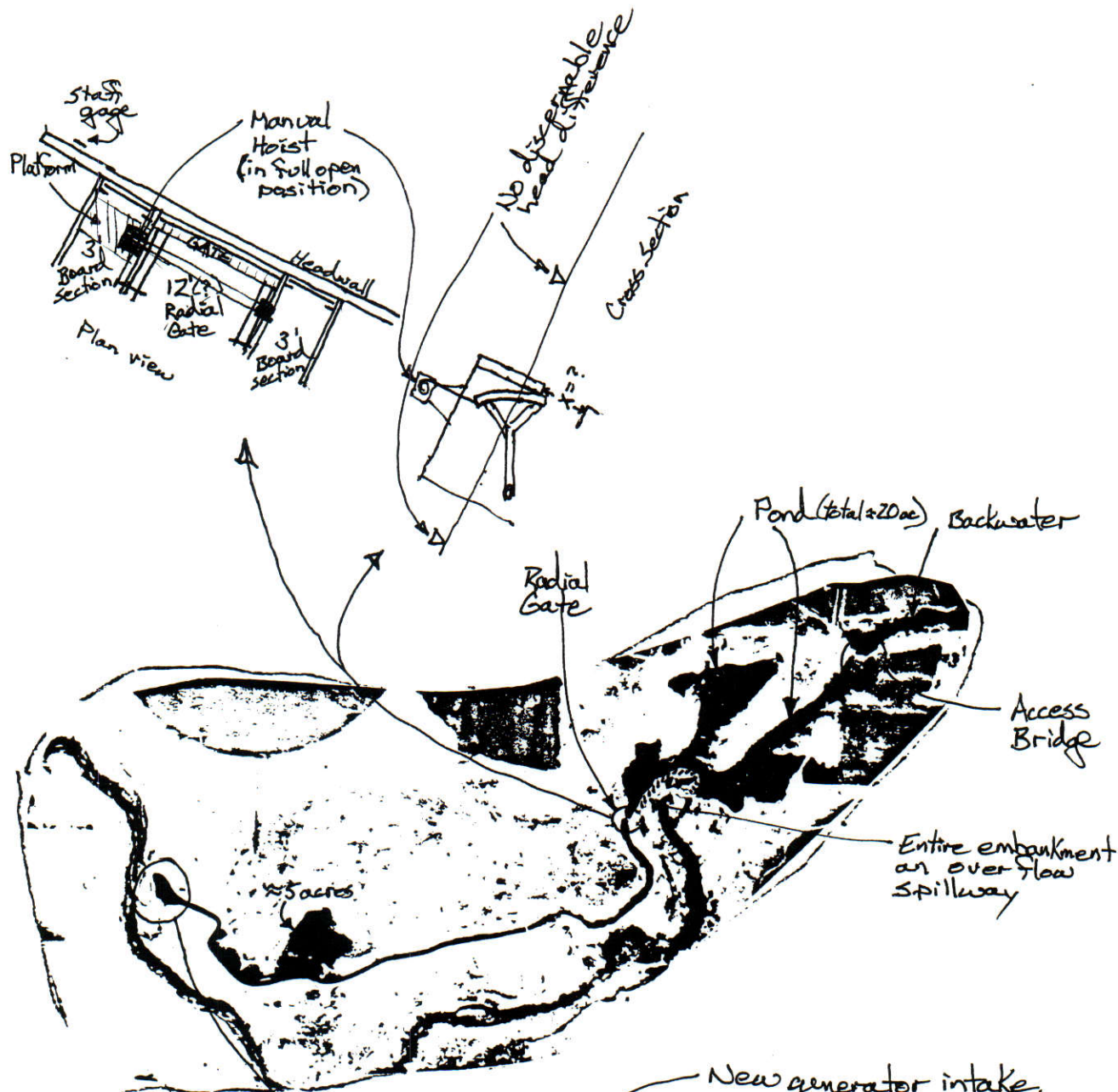
Amount: 130.00 CFS

Diversion Point: SESE Sec
29 T 06S R 14E, GOOD-
ING Co.

Use: POWER (130.00 CFS)
from 01/01 to 12/31

Place of Use: SWSW Sec 29 T
06S R 14E

Diversion Means: CON-
TROL GATE



No true scale
 2 1/2% of NAPP
 Photo # 439-45
 AA 70 NW
 8/1/88

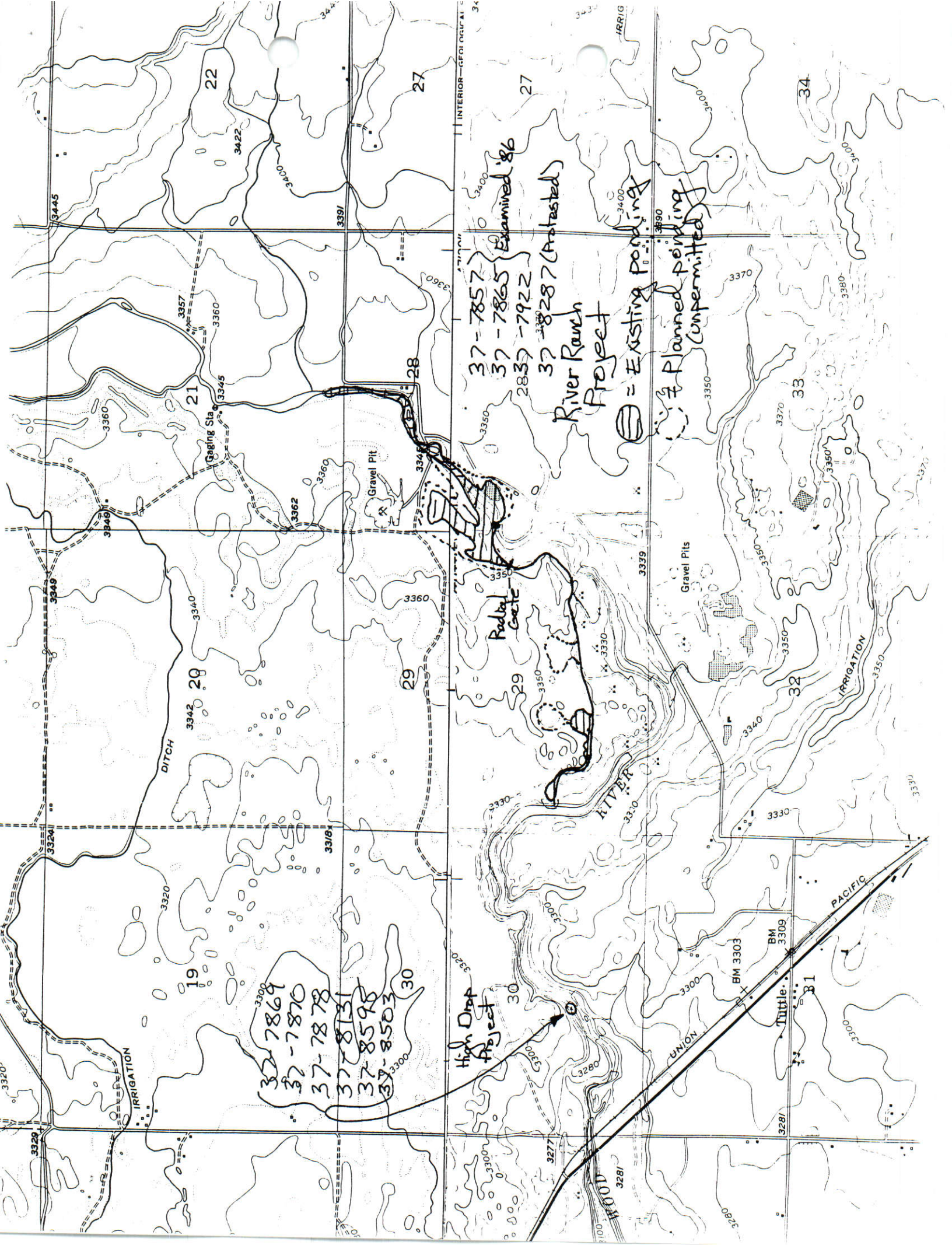
Three existing, examined generator intakes. Bay 1 in operation during visit - capacity (per Brian Ravenscroft) is 35 cfs.

New generator intake. Subject of emergency strum. Chn. Alt. permit to remove sediment from Mafad R. due to construction accident.

In extremely poor condition. Water was spilling during visit.

Forebay

Spillway



32-7869
32-7870
37-7878
37-8131
37-8598
37-8503

High Drop
Project

37-7857
37-7865
2837-7922
37-8287 (As tested)

Examined '86

River Ranch
Project

⊖ = Existing ponding

⊙ = Planned ponding
(unpermitted)

Radial
Gate

Gravel Pits

Turtle

BM 3303

BM 3309

DITCH

IRRIGATION

IRRIGATION

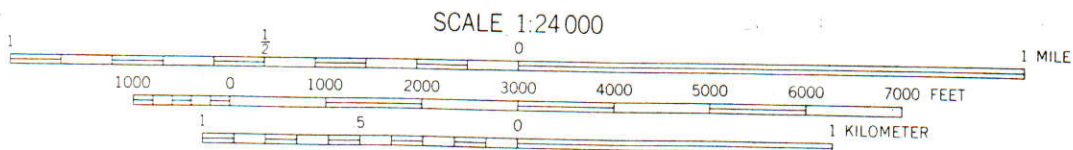
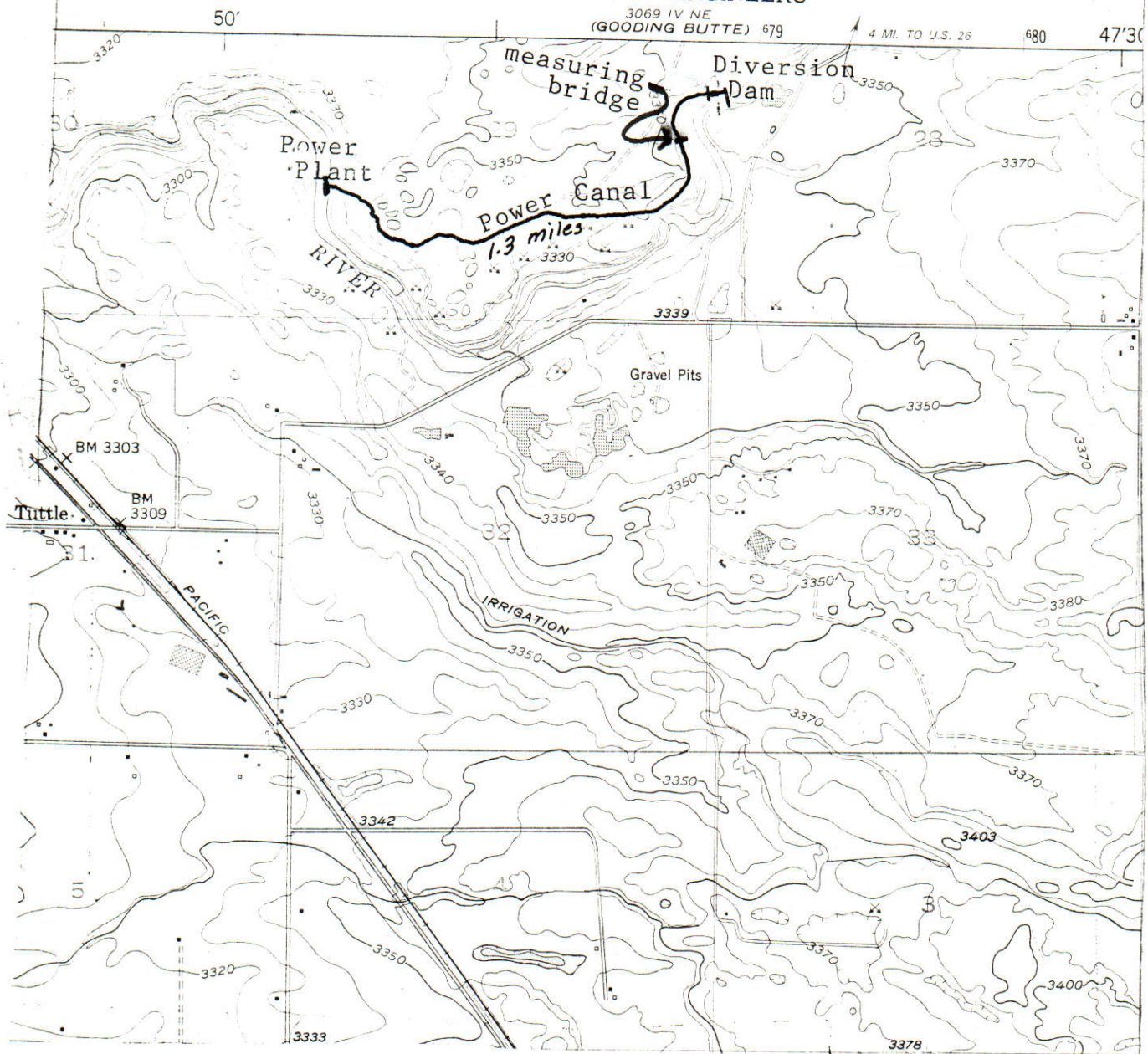
PACIFIC

UNION

INTERIOR-GEOLOGICAL SURVEY

Map showing location of Ravenscroft Hydropower Project

UNITED STATES
DEPARTMENT OF THE ARMY
CORPS OF ENGINEERS

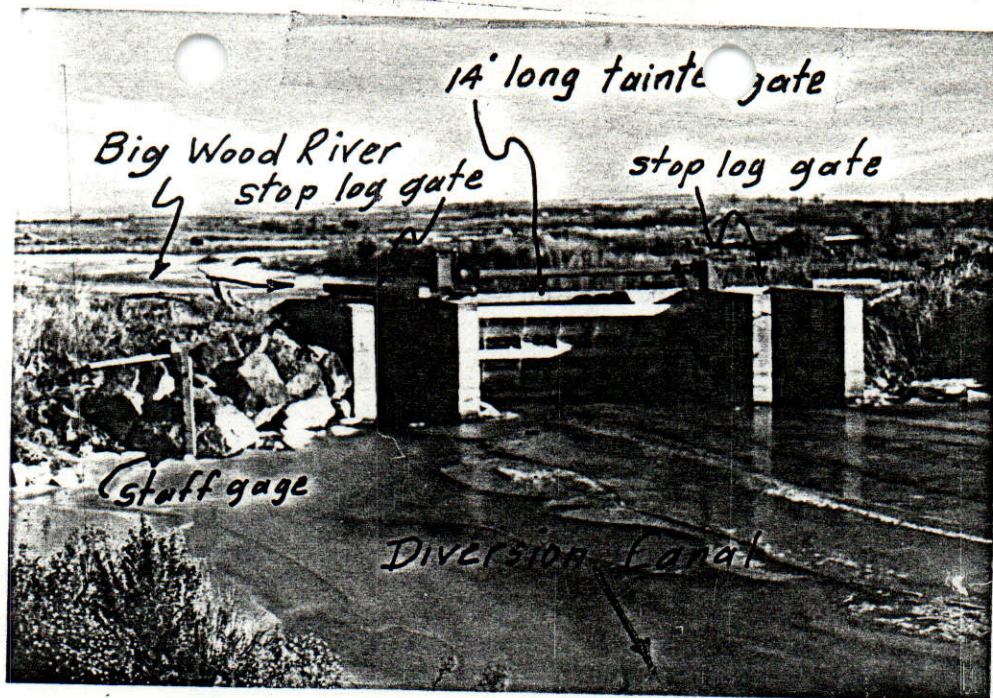


CONTOUR INTERVAL 10 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929

Base from
TUTTLE QUADRANGLE
IDAHO
7.5 MINUTE SERIES (TOPOGRAPHIC)



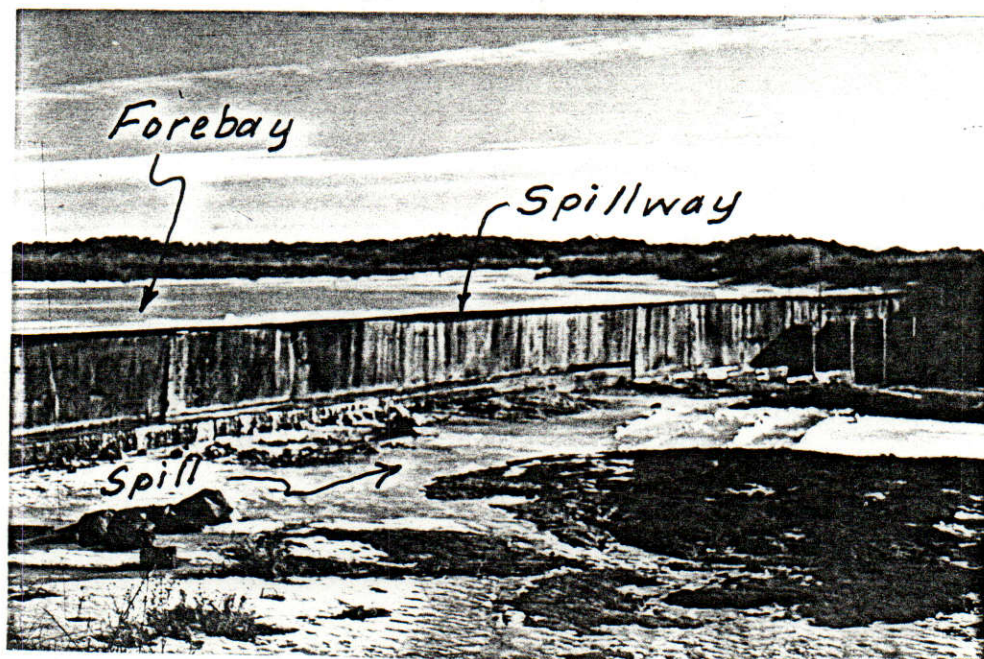
FIGURE 1



Diversion



Canal above Penstocks



Forebay at Spillway

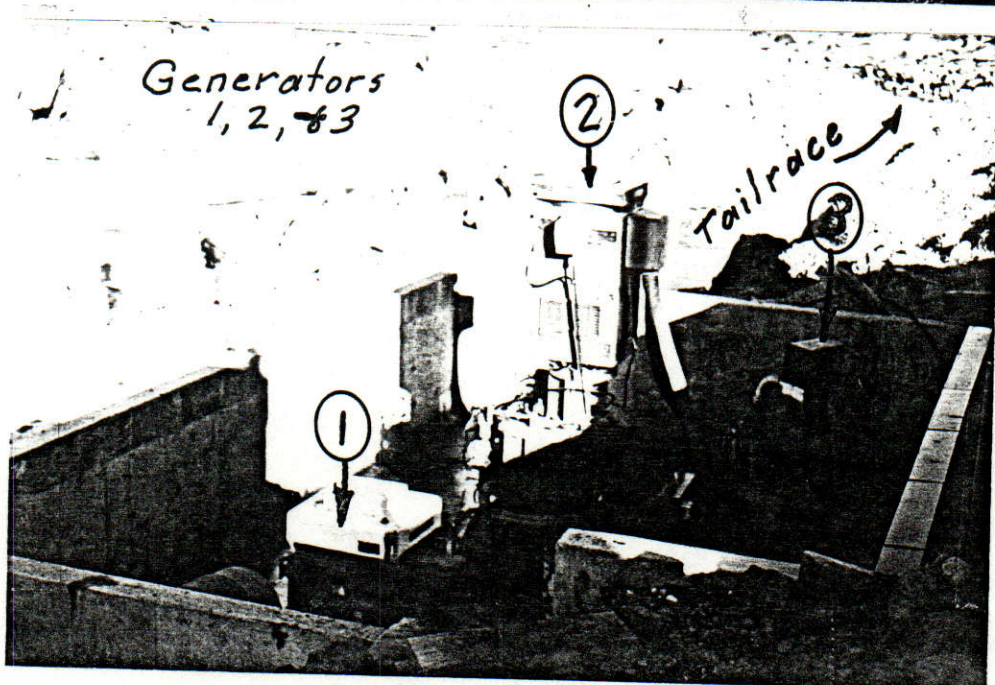
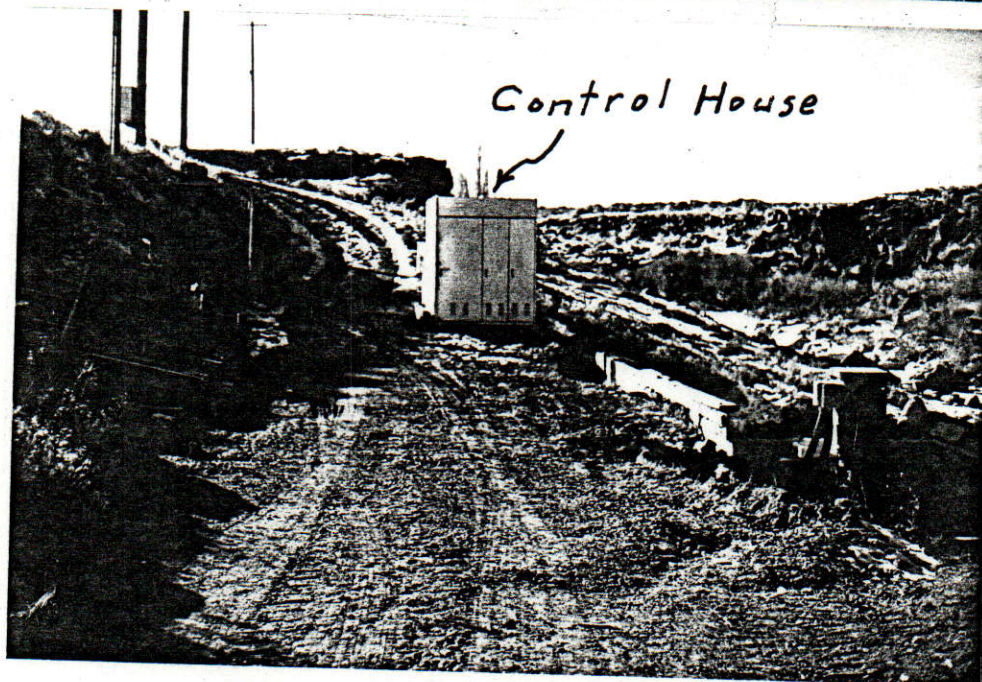
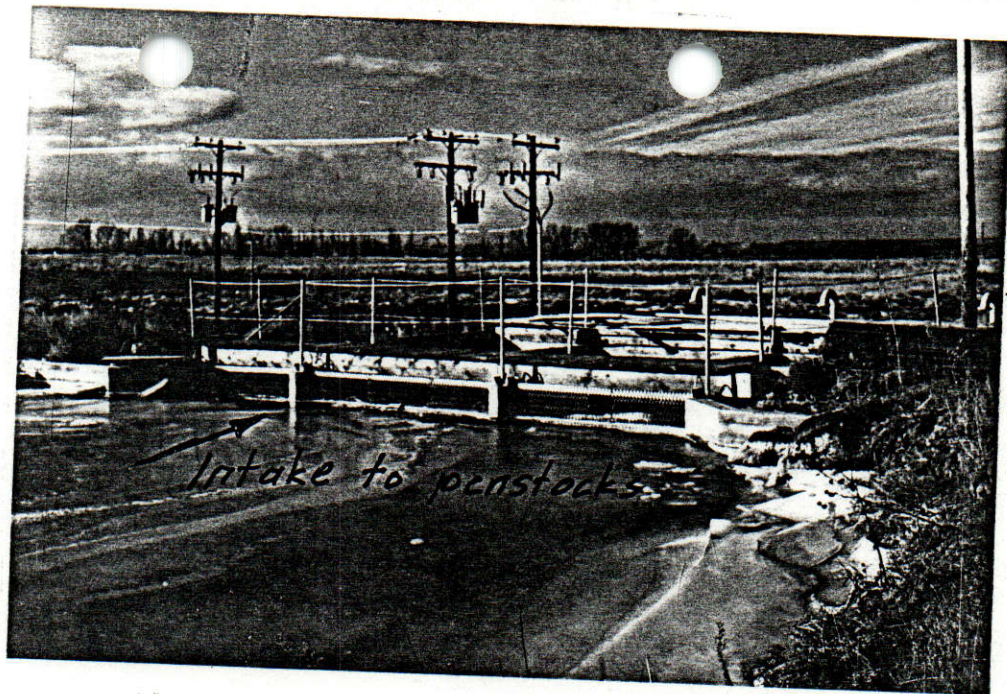


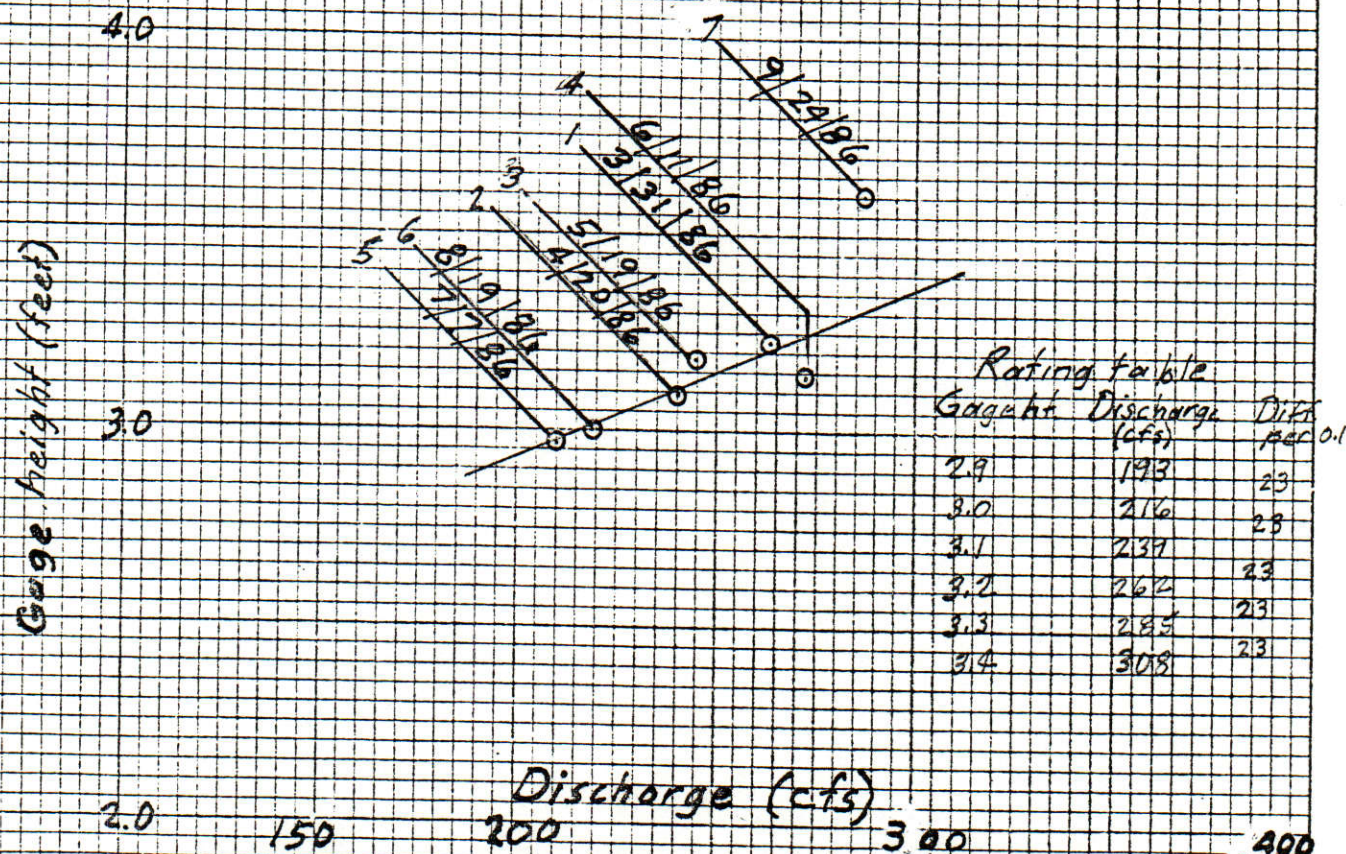
FIGURE 2 B

FIGURE 3

Station
Number

Ravenscroft Power Diversion Canal near Tuttle, Idaho

Stage-Discharge Relation



DISCHARGE MEASUREMENTS

No.	Date	Gage height	Discharge (cfs)	% diff. from curve	made by
1	3/31/86	3.23	264	-2.9	R. J. Newby
2	4/20/86	3.09	240	+0.8	"
3	5/19/86	3.18	244	-5.1	"
4	6/11/86	3.13	272	+10.6	"
5	7/7/86	2.96	210	+1.5	"
6	8/19/86	3.00	218	-1.4	"
7	9/24/86	3.60	3287	* shift -2.9	C. A. Thomas shift -2.9

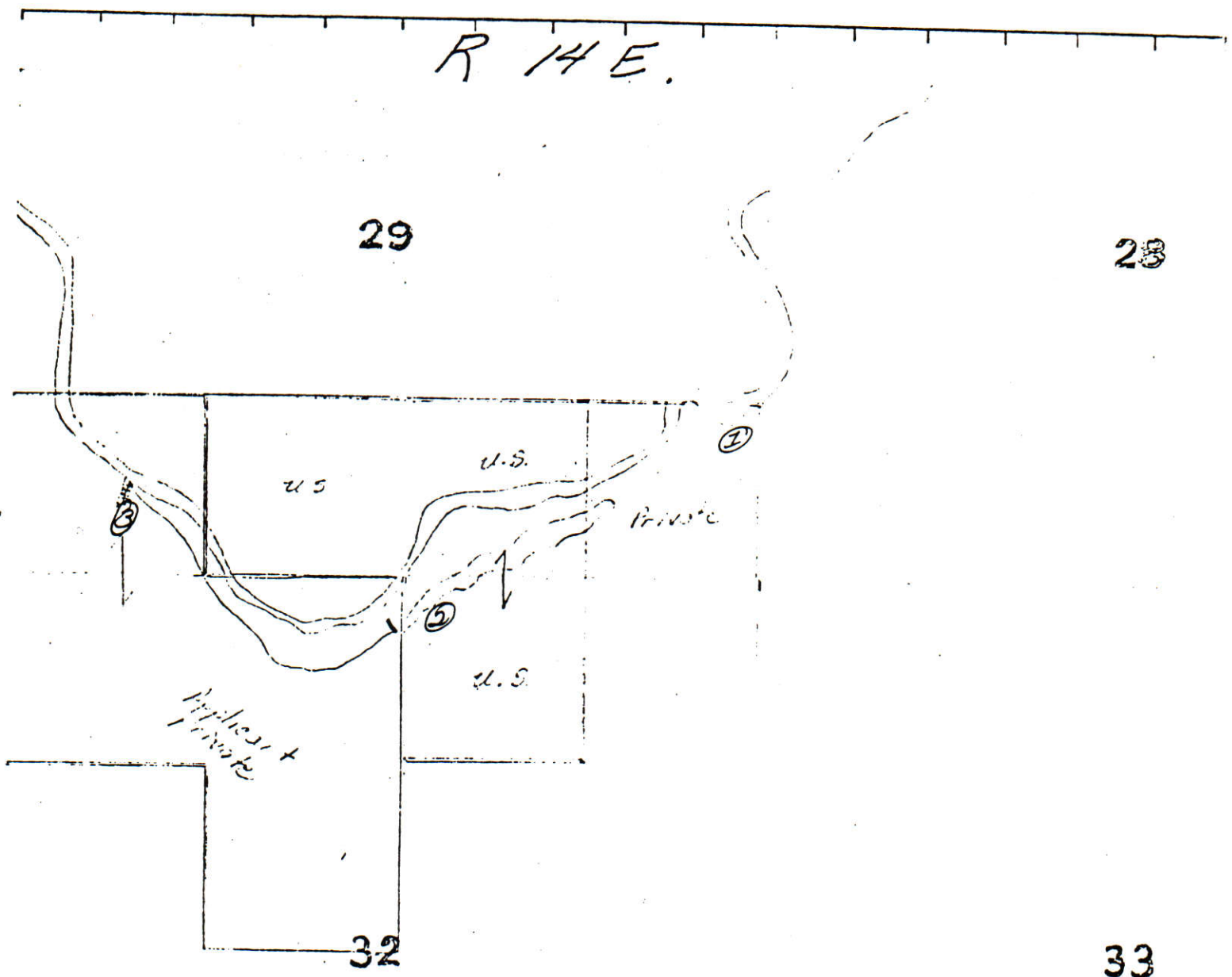
5 Spill at 52 cfs above penstocks

* Measurement made after forebay spillway was raised.

More measurements are needed for new relation.

Note: Small shifts evidently occur from channel shifts and moss.

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



1. Point of diversion
 2. Point of West point drainage ditch entry for added flow
 3. Plant site
- Elevation of diversion 3,329
Aproximate Elevation at proposed generator 3,293

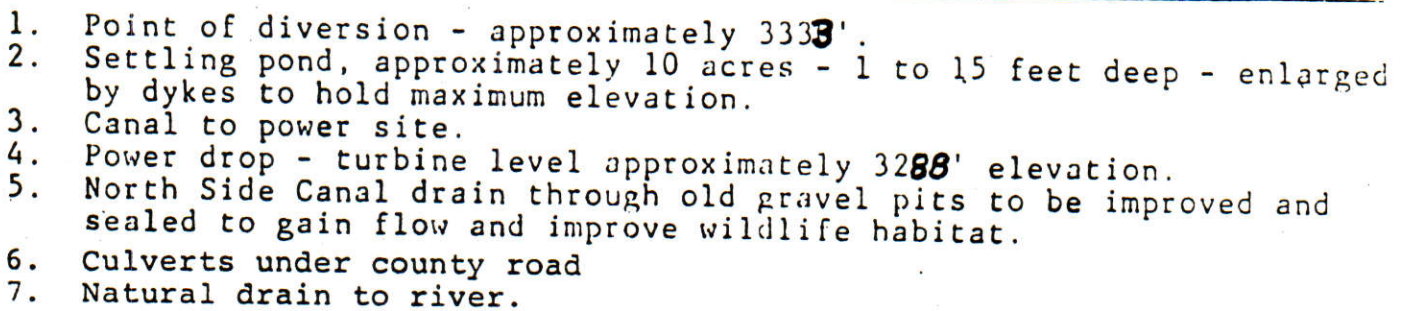
Scale: 2 inches equal 1 mile.

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.

Ernest J. Jernstedt
(Applicant)

MICROFILMED

Range 14 E



Vernon J. Lavenacraft.
(Applicant)

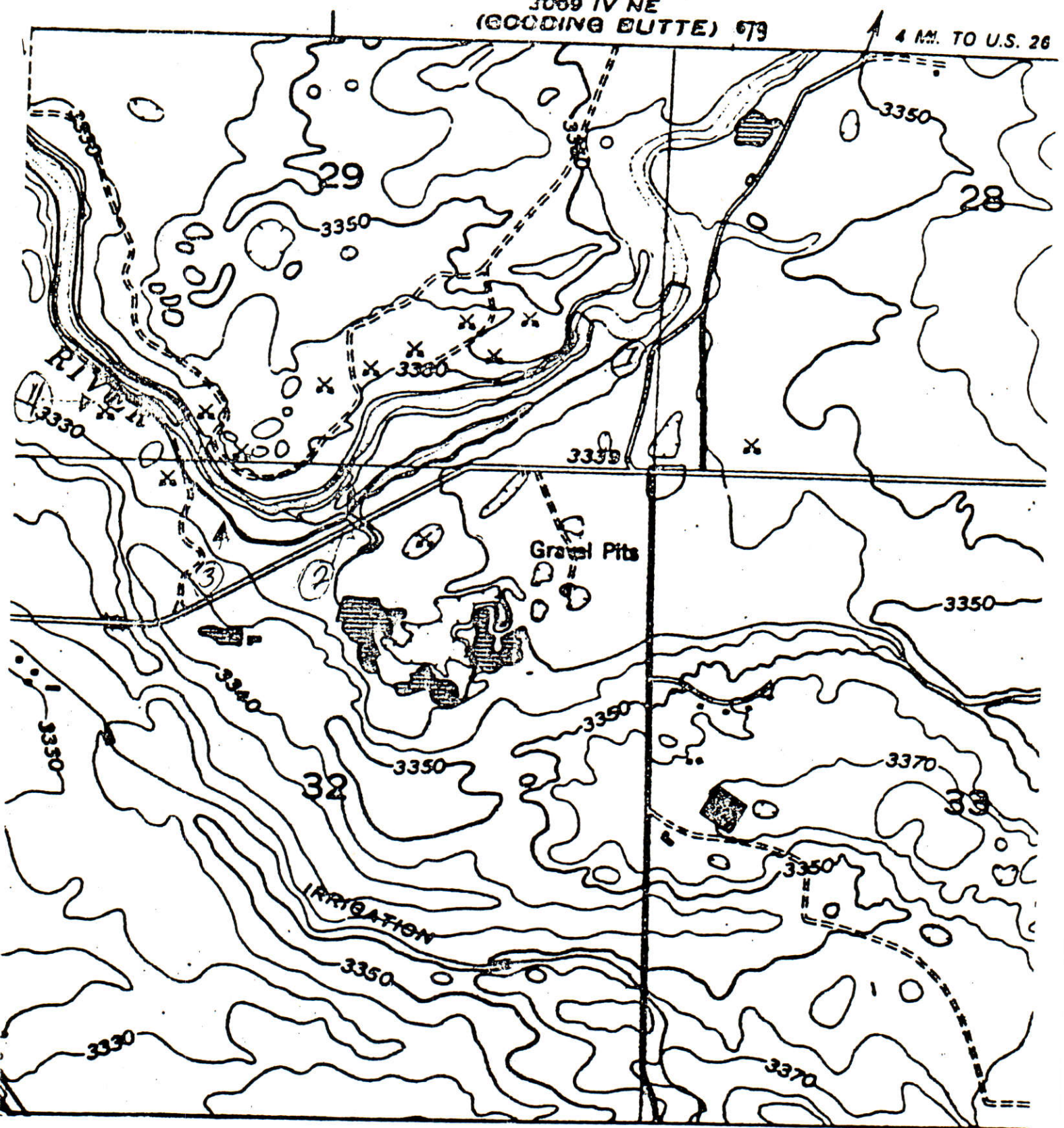
MICROFILMED

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

T6S - R14E. BM.

3069 IV NE
(GOODING BUTTE) 679

4 M. TO U.S. 26



1. Dry Bed Natural Diversion
2. Diversion Dam in Natural Dry Bed
3. Constructed Canal or Pipe Siphons
4. Power Plant Site

BEFORE KNOWING THAT THE STATE ENGINEER MAKES APPLICATION FOR PERMIT TO APPROPRIATE THE PUBLIC WATERS OF THE STATE OF IDAHO AS HEREIN SET FORTH.

Therese R. [Signature]
(Applicant)

MICROFILMED

UNITED STATES
DEPARTMENT OF THE ARMY
CORPS OF ENGINEERS

3069 IV NE
(GOODING BUTTE) 679

4 MI TO U.S. 26 680 47'30" 290 000 FEET

TUTTLE QUADRANGLE
IDAHO
7.5 MINUTE SERIES (TOPOGRAPHIC)

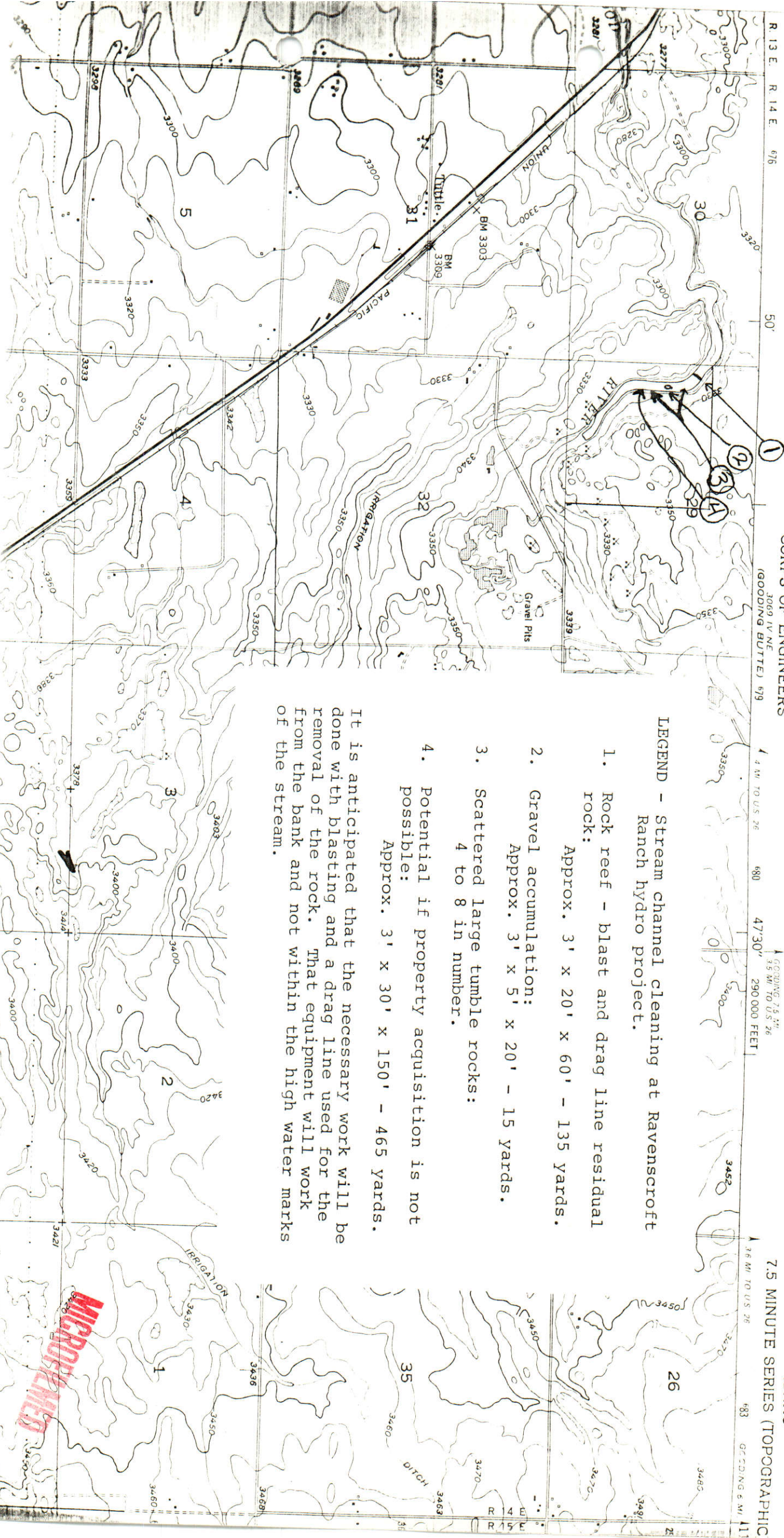
683

GEOD. 6 MI 11

LEGEND - Stream channel cleaning at Ravenscroft Ranch hydro project.

1. Rock reef - blast and drag line residual rock:
Approx. 3' x 20' x 60' - 135 yards.
2. Gravel accumulation:
Approx. 3' x 5' x 20' - 15 yards.
3. Scattered large tumble rocks:
4 to 8 in number.
4. Potential if properly acquisition is not possible:
Approx. 3' x 30' x 150' - 465 yards.

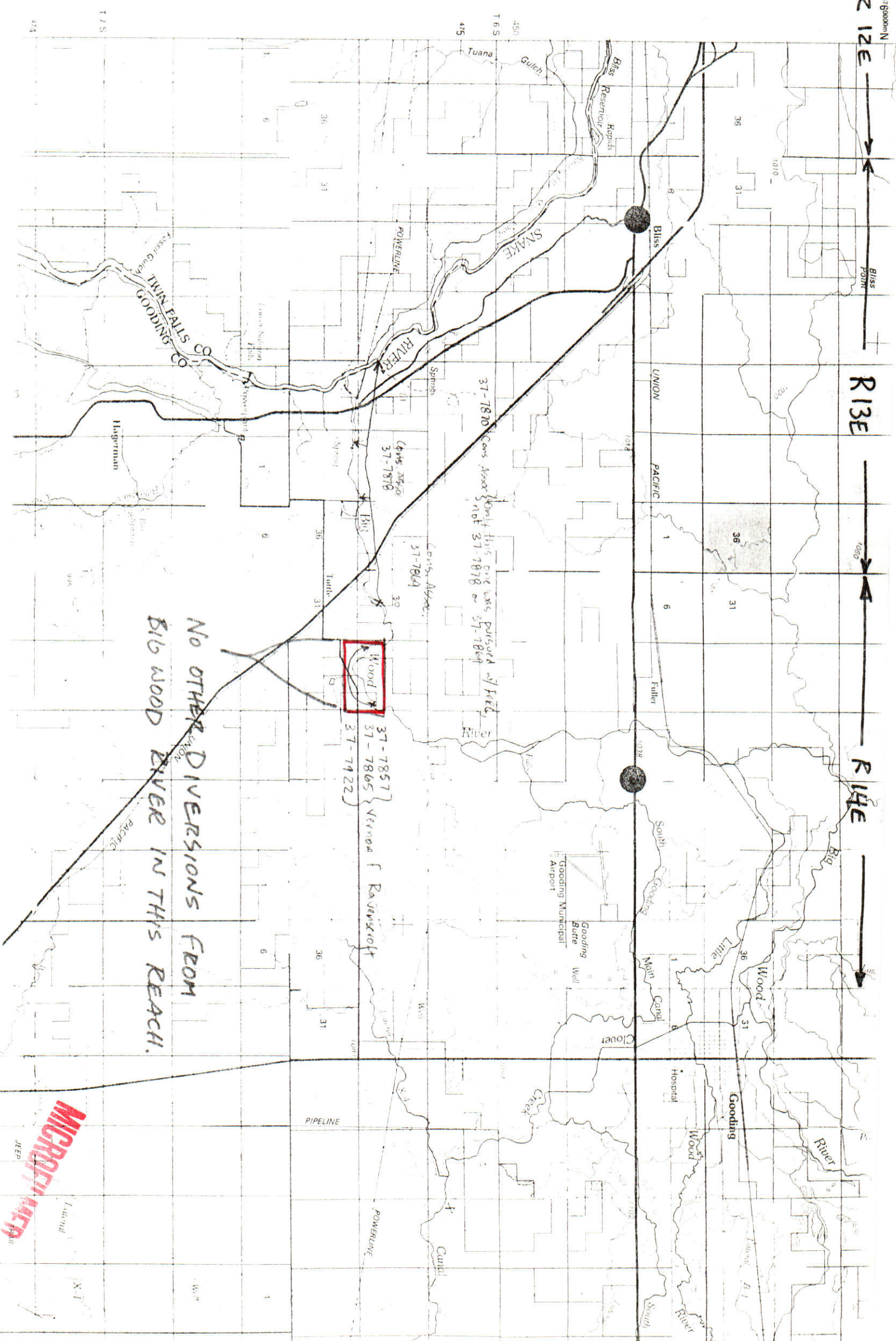
It is anticipated that the necessary work will be done with blasting and a drag line used for the removal of the rock. That equipment will work from the bank and not within the high water marks of the stream.



4760000N
R 12E

R 13E

R 14E



MICROFILMED
JEP

WATER RIGHT SPLIT
SUMMARY

ACTION	RIGHT NO.	NAME	AMOUNT CFS
Original Permit	37-7865	Vernon F. Ravenscroft	130.0 cfs
Full Assignment	37-7865	Bonneville Pacific Corporation and Vernon F. Ravenscroft and Harriett B. Ravenscroft	130.0 cfs
Full Assignment of Security Interest. Permit remains in the name of Bonneville Pacific Corp and Vernon F. Ravenscroft and Harriett B. Ravenscroft	37-7865	Prudential Leasing Company	130.0 cfs
Full Assignment	37-7865	Ravenscroft, Vernon F. Harriett B. Bonneville Pacific Corp.	130.0

MICROFILMED

MAR 06 1961

RECORDED

JAN 26 1987

State of Idaho
Department of Water Resources

Department of Water Resources

ASSIGNMENT OF PERMIT

I, Prudential Leasing Company, a Utah corporation, hereby assign to Vernon F. Ravenscroft and Harriett B. Ravenscroft, husband and wife,
and Bonneville Pacific Corporation, a Delaware corporation
of c/o Vernon F. Ravenscroft, P.O. Box 893, Boise, Idaho 83701
Address

CHECK ONE

☒ All my right, title, and interest in and to Permits No. 37-7857, 37-7865 and 37-7922
to appropriate the public waters of the State of Idaho.

☐ The following described portion of my right, title, and interest in and to Permit
No. _____ to appropriate the public waters of the State of Idaho.

(Describe that portion of the permit being assigned by listing the acreage within
each 40 acre subdivision, the point of diversion and the amount of water in cubic
feet per second for direct diversion, or acre feet for storage)

Made this 23rd day of January, 19 87.

PRUDENTIAL LEASING COMPANY, a Utah corporation
By Kathy L. Dale
Permit Holder
Its President

Spouse of Permit Holder

State of ~~Idaho~~ Utah)
County of Salt Lake) 68.

On this 23rd day of January, 19 87, personally
appeared before me the signer(s) of the above instrument, who duly acknowledged to me
that he (she) (they) executed the same.

seal

Laura L. Burton
Notary Public residing at
SLC, UT

My commission expires:

6/28/87

MICROFILMED

MAR 06 1987

113

JAN 26 1987

State of Idaho
Department of Water Resources

37-7857
37-7865
37-7922
Water Right No.

**AFFIDAVIT FOR WATER RIGHTS TO BE USED
FOR POWER PURPOSES**

Department of Water Resources

A. Establishment of Residency: (Complete either 1, or 2).

1. Individual Applicant or Individual Members of a Partnership:

I, _____ of _____,
(name) (city),

County of _____, State of Idaho, being duly sworn, do hereby
certify that I am a bona fide resident of the State of Idaho.

2. Corporation:

I, Kathy K. Hale of Salt Lake City,
(name) (city),

County of Salt Lake, State of Utah, being duly sworn, depose

and say: That I am the designated registered agent of ~~XXX~~ Prudential Federal Savings and Loan Association, a federally chartered corporation: ("Prudential"),
(name of corporation) that as such I am in charge of the registered office

of the said corporation as required by Section 30-1-12, Idaho Code, at _____,
(city)

Idaho, wherein are kept the corporate records required by Section 30-1-52, Idaho Code, and that _____

Prudential is a corporation qualified to do business in the State of Idaho under the laws
(name of corporation) of the State of Idaho.

B. Ownership of Facilities: (To be completed for hydropower projects only)

The hydropower facility to be developed pursuant to the attached Application for Permit:

- (check one)
- ☐ Will not utilize existing man-made irrigation facilities such as a dam or a canal.
 - ☒ Will utilize existing man-made irrigation facilities such as a dam or a canal, and permission of the owner is documented in an affidavit attached hereto.
 - ☐ Will utilize existing man-made irrigation facilities such as a dam or a canal, and the owner of the facilities is the signee of this affidavit.

PRUDENTIAL FEDERAL SAVINGS AND LOAN ASSOCIATION

By Kathy K. Hale
Applicant
Its SR. Vice President

State of ~~Idaho~~ Utah)
County of Salt Lake) ss.

On this 23rd day of January, 19 87, personally appeared before me
the signer(s) of the above instrument, who duly acknowledged to me that he (she) (they) executed the same.

Lennie Butler
Notary Public residing at _____

seal

My commission expires:

6/28/87

MAR 06 1987

ASSIGNMENT AND SECURITY AGREEMENT

THIS ASSIGNMENT AND SECURITY AGREEMENT is executed as of the 1st day of February, 1986, by VERNON F. RAVENSCROFT and HARRIETT B. RAVENSCROFT, husband and wife (the "Ravenscrofts"), whose address is P. O. Box 893, Boise, Idaho 83701, and BONNEVILLE PACIFIC CORPORATION, a Utah corporation ("Bonneville"), whose address is 200 East South Temple, Suite 300, Salt Lake City, Utah 84111 (the Ravenscrofts and Bonneville are hereinafter sometimes collectively referred to as "Borrower"), in favor of PRUDENTIAL FEDERAL SAVINGS AND LOAN ASSOCIATION, a corporation chartered under the laws of the United States of America, whose address is 127 East 3300 South, Salt Lake City, Utah 84115 (hereinafter referred to as "Prudential").

Recitals:

A. As of the date hereof, Prudential has loaned to the Ravenscrofts the aggregate principal amount of \$1,170,000.00 (the "Loan") and, as evidence of the Loan, the Ravenscrofts have executed and delivered to Prudential the Note (as herein defined).

B. Bonneville will receive substantial economic benefit as a result of the Loan.

C. Prudential has made the Loan to the Ravenscrofts on the condition that Borrower assign to Prudential, as security for the Note, certain Contracts (as herein defined) held by Borrower, together with the interests of Borrower in the Equipment (as herein defined).

Agreement:

In consideration of the covenants, promises and agreements set forth herein and in the Note, Borrower and Prudential do hereby agree as follows:

SECTION 1. DEFINITIONS

The following terms, when used herein, shall have the meanings indicated:

1.1 Agreement. This Assignment and Security Agreement.

1.2 Contracts. The agreements, instruments and documents which are listed or described in Exhibit "A" attached

MICROFILMED

MAR 06 1987

EXHIBIT A

to

ASSIGNMENT AND SECURITY AGREEMENT

CONTRACTS

The Contracts referred to in the foregoing Assignment and Security Agreement (the "Agreement") are as follows:

- (1) Power Sales Agreement dated September 2, 1982, between Vernon F. Ravenscroft and Idaho Power Company, identified as Idaho Power Company Facility No. 31515009, amended by Amendment No. 1 dated March 7, 1984.
- (2) Water Permit Nos. 37-7857, 37-7865 and 37-7922, as amended on November 22, 1982, granted by the State of Idaho, Department of Water Resources, to Vernon F. Ravenscroft.
- (3) Federal Energy Regulatory Commission Order Granting Exemptions from Licensing issued to Vernon F. Ravenscroft on February 5, 1982, at 18 FERC paragraph 62,161.
- (4) Bureau of Land Management Right-of-Way 1-17053 granted March 5, 1982 to Vernon F. Ravenscroft.
- (5) Lease Agreement dated November 8, 1982 between Vernon F. Ravenscroft and Dean Shaffer and Eileen Shaffer for certain real property located in Gooding County, Idaho, described as Tract IV on Exhibit D attached to the Agreement, as amended by an Addendum to Lease dated December 1, 1982.
- (6) Lease Agreement dated November 3, 1982, from Ben and Fae Slatter to Vernon F. Ravenscroft, for certain real property located in Gooding County, Idaho, described as Tract III on Exhibit D attached to the Agreement.
- (7) Assignment and/or Sublease of Real Property, Leases and Easements dated November 30, 1982, between Vernon F. Ravenscroft and Harriett B. Ravenscroft (the "Ravenscrofts") and the Ravenscrofts and Bonneville Pacific Corporation, a Utah corporation, recorded on December 21, 1982 as Instrument No. 98427 in the Records of Gooding County, Idaho.

MICROFILMED

MAR 06 1987

PRUD1(08)
12/9/85

hereto and by this reference made a part hereof, and any other agreement, instrument or document in which Borrower has an interest which relates to or is connected with the Real Property.

1.3 Note. The Promissory Note dated as of the date hereof executed by the Ravenscrofts and payable to Prudential in the principal amount of One Million One Hundred Seventy Thousand Dollars (\$1,170,000.00), together with interest thereon at the rate specified in the Note. A copy of the Note is attached hereto as Exhibit "B" and by this reference made a part hereof.

1.4 Event of Default. As defined in Section V hereof.

1.5 Equipment. The equipment, inventory, machinery, fixtures and improvements which are described or referred to in Exhibit "C" attached hereto and by this reference made a part hereof, and any other equipment, inventory, machinery, fixtures and improvements located on the Real Property in which Borrower has an interest.

1.6 Mortgage. The Real Estate Mortgage dated as of the date hereof executed by Borrower, as mortgagor, to and in favor of Prudential, as mortgagee, covering the Real Property. The Mortgage is additional security for the Obligations.

1.7 Obligations. The payment and performance of each and every obligation of Borrower evidenced by the Note, this Agreement and the Mortgage, together with any extensions, renewals or modifications of the Note, this Agreement or the Mortgage or of the obligations evidenced thereby, regardless of the extent of or the subject matter of any such extension, renewal or modification, and all sums expended or advanced by Prudential pursuant to the terms of the Note, this Agreement or the Mortgage, or any instrument further evidencing or securing any obligations secured hereby, together with interest and/or costs thereon as herein and therein provided.

1.8 Real Property. The Real Property located in the County of Gooding, State of Idaho, described in Exhibit "D" attached hereto and by this reference made a part hereof.

1.9 Security Property. The property and interests described in Sections II and III hereof, including all proceeds thereof or income or receipts therefrom.

SECTION II. ASSIGNMENT OF CONTRACTS

Borrower hereby assigns, transfers and conveys to Prudential, as security for the Obligations, all of the right, title

RECORDED
-2- MAR 06 1987

and interest of Borrower in and to the Contracts, including, but not limited to the right, title and interest of Borrower in and to any and all real property, personal property, fixtures, licenses or other rights covered by or relating to the Contracts. By accepting this assignment, Prudential does not assume any obligations or liabilities of Borrower under the Contracts. The security interests and the assignments hereby granted in this Section II are to secure the payment and performance by Borrower of the Obligations. At any time from and after the date hereof during which all or any portion of the Obligations is outstanding, Prudential shall have the right, at its option, without notice, if an Event of Default has occurred, and without regard to the adequacy of security for the Obligations, to collect from the parties to any one or more of the Contracts any payments to be made to Borrower thereunder. In the event of any such collection, Prudential shall have the right to apply the amount collected either to payments of interest and/or principal on the Note, or to cause such amounts to be remitted to Borrower. Borrower agrees that at the request of Prudential, Borrower will cause such notices to be given to the parties to the Contracts with respect to the assignment to Prudential as Prudential may deem appropriate and will take such other actions with regard thereto as Prudential may request.

SECTION III. THE SECURITY AGREEMENT

Borrower hereby grants to Prudential a security interest in the Contracts and in the Equipment, together with all future increases, replacements and substitutions for, betterments of and accessions and additions thereto, and all cash and non-cash proceeds thereof. The security interest hereby granted in this Section III is to secure the payment and performance by borrower of the Obligations.

SECTION IV. REPRESENTATIONS AND WARRANTIES OF BORROWER

Borrower represents and warrants to Prudential as follows:

4.1 All information furnished by Borrower to Prudential in connection with the Obligations and/or this Agreement is accurate and complete in all material respects.

4.2 Borrower will pay promptly when due all taxes, assessments and governmental charges imposed upon the Security Property.

4.3 Borrower owns the Security Property, and the same is free and clear from all security interests and encumbrances of every nature superior to Prudential. Borrower will not permit or

suffer to exist any other security interest in or lien upon the Security Property nor any other financing statement covering the Security Property to be on file in any public office.

4.4 Borrower shall do, make, execute and deliver all such additional and further acts, things, deeds, assurances and instruments as Prudential may reasonably require for the purpose of more completely vesting in and assuring to Prudential its rights hereunder and in or to the Security Property.

4.5 Borrower agrees to comply with any governmental regulations affecting the use of the Security Property and will not use or permit the use of the Security Property in any unlawful manner.

4.6 Borrower will not permit the Security Property to be misused or abused, wasted or allowed to deteriorate, and Borrower will keep the Security Property in good condition and repair. Prudential may inspect the Security Property at reasonable times and intervals and upon reasonable notice and may, for this purpose, enter the premises upon which any of the Security Property is located.

4.7 Any or all of the Obligations shall, at the option of Prudential and notwithstanding any time or credit allowed by any instrument evidencing a liability, be immediately due and payable without notice or demand upon the occurrence of any of the Events of Default as specified in Section V hereof.

4.8 Borrower will make joint application with Prudential to the Federal Energy Regulatory Commission or otherwise do whatever is necessary to transfer any rights or permits with respect to the Real Property or Equipment to Prudential if it ever becomes necessary to do so in order to carry out the intention of this Agreement.

4.9 Borrower acknowledges that a principal purpose of this Agreement is to assure that Prudential has the right to be substituted for Borrower to operate the Equipment if Borrower does not pay the Note or, in the alternative, to arrange to remove the Equipment and terminate all obligations of Borrower with respect thereto.

SECTION V. EVENTS OF DEFAULT; REMEDIES

5.1 Any of the following events shall constitute an "Event of Default" hereunder:

(a) Any failure to pay or perform any of the

PRUD1(08)
01/23/86

4-MICROFILMED

MAR 06 1987

Obligations;

(b) The falsity of any representation or warranty by Borrower herein or the making by Borrower of any misrepresentation to Prudential;

(c) Issuance of an injunction or attachment against any of the Security Property;

(d) Calling of a meeting of creditors, appointment of a committee of creditors or liquidating agents or offering of a composition or extension to creditors by, for or against Borrower which action, if involuntary, is not rescinded or dismissed within forty-five (45) days;

(e) The insolvency of Borrower, or Borrower is the subject of a voluntary petition in bankruptcy, is in any other proceeding under the federal bankruptcy laws, or is the subject of an involuntary petition in bankruptcy or in any other proceeding under the federal bankruptcy laws which is not dismissed within forty-five (45) days, or Borrower makes an assignment for the benefit of creditors, or Borrower is named in, or the Security Property is subjected to, a suit for the appointment of a receiver which is not dismissed within forty-five (45) days; or

(f) Such a change in the condition or affairs (financial or otherwise) of Borrower as in the reasonable opinion of Prudential materially impairs Prudential's security or increases its risks.

5.2 Upon the occurrence of an Event of Default, Prudential shall have all remedies provided by law and, without limiting the generality of the foregoing, shall be entitled as follows:

(a) Borrower agrees to put Prudential in possession of the Security Property on demand.

(b) Prudential is authorized to enter any premises where the Security Property is situated and take possession of said Security Property without notice or demand and without legal proceedings. Prudential is further authorized to:

(i) Negotiate with prospective buyers for the sale of Security Property;

(ii) Compromise and satisfy priority lien claims of other creditors out of the sale proceeds

or otherwise;

(iii) Sell or otherwise dispose of all or part of the Security Property at private or public sale, through bidding or at negotiated sales prices; and

(iv) Otherwise manage and dispose of the Security Property, in whole or in part, in a manner which, in the judgment of Prudential, will minimize the indebtedness to Prudential after sale or other disposition of the Security Property.

(c) Borrower agrees that a period of thirty (30) days from the time a notice is sent, by first-class mail (or by airmail or certified mail, if Prudential deems it proper), shall be a reasonable notification of the time and place after which any private sale or other intended disposition is to be made.

(d) The Ravenscrofts agree to pay on demand the amount of all expenses reasonably incurred by Prudential in protecting or realizing on the Security Property. In the event that this Agreement or any Obligations secured hereby is referred to an attorney for protecting or defending the priority of Prudential's interest or for collection or realization procedures, the Ravenscrofts agree to pay a reasonable attorney's fee, including fees incurred in both trial and appellate court, or fees incurred without suit, and expenses of title search and all court costs and costs of public officials. The sums agreed to be paid in this subparagraph shall be secured hereby.

(e) If Prudential disposes of the Security Property, the Ravenscrofts agree to pay any deficiency remaining after application of the net proceeds to any indebtedness secured hereby.

(f) Any payment made by Borrower and any sum received by Prudential through the disposition of the Security Property may be applied as Prudential may elect to any Obligation, whether matured or not matured.

SECTION VI. NOTICE

As used in this Agreement, notice includes but is not limited to the communication of notice, request, approval, statement, report, acceptance, consent, waiver and appointment. No notice of the exercise of any option or election is required unless the provision giving the election or option expressly requires notice. All notices must be in writing; provided that

no writing other than a check or other instrument representing a payment itself is expressly required by the terms hereof. Notice is considered given either (a) on the date when such notice is delivered in person to the recipient named below, or (b) on the date when such notice is deposited in the United States mail in a sealed envelope or container, either registered or certified mail, return receipt requested, postage and postal charges prepaid, addressed by name and address to the person intended as set forth above. Either Borrower or Prudential may, by notice given at any time or from time to time, require subsequent notices to be given to another individual person, whether a party or an officer or representative, or to a different address, or both. Notices given before actual receipt of notice of such change shall not be invalidated by the change. If more than one such recipient is named, delivery of notice to any one such recipient is sufficient.

SECTION VII. MISCELLANEOUS

7.1 All Section titles or captions of this Agreement are for convenience only and shall not be deemed to define, limit, augment, extend or describe the scope, content or intent of any part or parts of this Agreement.

7.2 Whenever the context may require, any pronoun used herein shall include the corresponding masculine, feminine or neuter forms, and the singular form of nouns, pronouns and verbs shall include the plural and vice versa. Each of the foregoing genders and plurals is understood to refer to a corporation, partnership or other legal entity when the context so requires.

7.3 Borrower shall execute and deliver all documents, provide all information and take or forebear from all such action as may be reasonably necessary to achieve the purposes of this Agreement.

7.4 Borrower will join with Prudential in executing one or more financing statements, pursuant to the Uniform Commercial Code, in form satisfactory to Prudential and will pay the costs of filing the same or recording this Agreement in all public offices whenever filing or recording is deemed by Prudential to be necessary or desirable.

7.5 Prudential is not required to, but may at its option, pay any tax, assessment, insurance premium, expense or other charge payable by Borrower, and any filing or recording fee; and any amount so paid, with interest thereon at the rate of eighteen percent (18%) per annum from the date of payment until repaid, shall be secured hereby and shall be repayable by

the Ravenscrofts on demand. The rights granted by this paragraph are not a waiver of any other rights of Prudential arising from the breach of any covenants hereof by Borrower.

7.6 Any payment made by Borrower and any sum received by Prudential through the disposition of the Security Property may be applied as Prudential may elect to any Obligations secured by this Agreement, whether matured or not matured.

7.7 This Agreement shall be construed in accordance with and governed by the laws of the State of Idaho.

7.8 The rights and interests of Borrower under this Agreement shall not be sold, assigned, conveyed or otherwise transferred, except as permitted by the Mortgage, and the duties and obligations of Borrower hereunder shall not be assigned or delegated without the express written consent of Prudential. This Agreement shall be binding upon Borrower and inure to the benefit of Prudential and their respective heirs, executors, administrators, successors, legal representatives and assigns; provided, that this provision shall not be construed as permitting assignment, substitution, delegation or other transfer of rights or obligations except strictly in accordance with the provisions of the other Sections of this Agreement.

7.9 No failure by Prudential to insist upon the strict performance of any covenant, duty, agreement or condition of this Agreement or to exercise any right or remedy consequent upon a breach thereof shall constitute a waiver of any such breach or of such or any other covenant, agreement, term or condition. Prudential may, by notice delivered in the manner provided in this Agreement, but shall be under no obligation to, waive any of its rights or any conditions to its Obligations hereunder, or any duty, obligation or covenant of Borrower. No waiver shall affect or alter the remainder of this Agreement, but each and every other covenant, agreement, term and condition hereof shall continue in full force and effect with respect to any other then existing or subsequently occurring breach.

7.10 The rights and remedies of Prudential hereunder shall not be mutually exclusive, and the exercise of one or more of the provisions of this Agreement shall not preclude the exercise of any other provisions.

7.11 In the event that any condition, covenant or other provisions herein contained is held to be invalid or void by any court of competent jurisdiction, the same shall be deemed severable from the remainder of this Agreement and shall in no way affect any other covenant or condition herein contained. If such

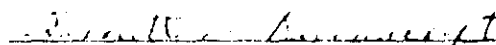
MICROFILMED

condition, covenant or other provision shall be deemed invalid due to its scope or breadth, such provision shall be deemed valid to the extent of the scope or breadth permitted by law.

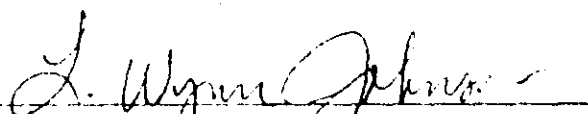
7.12 In the event there is a default under this Agreement and it becomes necessary for Prudential to employ the services of an attorney in connection therewith, either with or without litigation, Borrower shall pay to Prudential a reasonable attorney's fee and, in addition, such costs and expenses as are incurred in enforcing or in terminating this Agreement.

IN WITNESS WHEREOF, Borrower has executed this Agreement on the date first set forth above.


VERNON F. RAVENSCROFT


HARRIETT B. RAVENSCROFT

BONNEVILLE PACIFIC CORPORATION,
a Utah corporation

By 
Its L. Wynn Johnson - Vice President

State of Idaho
Department of Water Resources

RECEIVED
MAY 31 1984

ASSIGNMENT OF PERMIT

Vernon F. Ravenscroft
Harriett B. Ravenscroft and
I, Bonneville Pacific Corporation hereby assign to Prudential Leasing Company
of 155 East 3300 South, Salt Lake City, Utah 84115
Address

CHECK ONE

☒ All my right, title, and interest in and to Permit No. 37-7857, 37-7865, 37-7922
to appropriate the public waters of the State of Idaho.

☐ The following described portion of my right, title, and interest in and to Permit
No. _____ to appropriate the public waters of the State of Idaho.

(Describe that portion of the permit being assigned by listing the acreage within
each 40 acre subdivision, the point of diversion and the amount of water in cubic
feet per second for direct diversion, or acre feet for storage)

Made this 1st day of May, 19 84.

Vernon F. Ravenscroft
Vernon F. Ravenscroft
Harriett B. Ravenscroft by
Vernon F. Ravenscroft her
Attorney in fact.
Harriett B. Ravenscroft

BONNEVILLE PACIFIC CORPORATION

State of Idaho

County of Salt Lake

ss.

By: L. Wynn Johnson

On this 1st day of May, 19 84, personally
appeared before me the signer(s) of the above instrument, who duly acknowledged to me
that ~~he~~ they executed the same.

seal

Jackie Peterson
Notary Public residing at
Centerville, Utah

My commission expires:

September 22, 1987

MICROFILMED

BEFORE THE DEPARTMENT OF WATER RESOURCES
OF THE
STATE OF IDAHO

IN THE MATTER OF PERMIT NO. 37-7865 IN THE
NAME OF PRUDENTIAL LEASING COMPANY

ORDER OF REINSTATEMENT

WHEREAS, the Department has issued the above-captioned permit with the condition that proof of construction of works and application of water to beneficial use be submitted on or before September 1, 1984; and,

WHEREAS, the Department has notified the permit holder by certified mail that proof was due and instructed the permit holder as to the steps to be taken to make said proof; and,

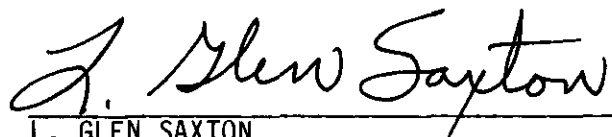
WHEREAS, the Department has notified the permit holder that the permit has lapsed for failure of the permit holder to submit proof of beneficial use; and,

WHEREAS, Section 42-218a of the Idaho Code provides that a permit may be reinstated upon a showing of reasonable cause within sixty days of the date of the notice of lapsing; and,

WHEREAS, the permit holder has provided a reasonable showing as to why said permit should be reinstated by submitting proof of beneficial use on September 7, 1984;

IT IS, THEREFORE, HEREBY ORDERED that Permit No. 37-7865 be REINSTATED and the priority advanced to November 5, 1980.

Dated this 23rd day of October, 1984.


L. GLEN SAXTON
Chief, Operations Bureau

MICROFILMED

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
AFFIDAVIT FOR WATER RIGHTS TO BE USED
FOR POWER PURPOSES

A. Establishment of Residency: (Complete either 1, or 2).

1. Individual Applicant or Individual Members of a Partnership:

I, _____ of _____,
(name) (city)
county of _____, State of Idaho, being duly sworn, do
hereby certify that I am a bona fide resident of the State of Idaho.

2. Corporation:

I, Larry R. Stevens of Salt Lake City,
(name) (city)
County of Salt Lake, State of Utah, being duly sworn, depose
and say: That ~~CT Corporation System is~~ CT Corporation System is
Prudential Leasing
Company: that it is in charge of the registered
(name of corporation)
office of the said corporation as required by Section 30-1-12, Idaho Code, at
Boise Idaho, wherein are kept the corporate records required
(city)
by Section 30-1-52, Idaho Code: and that Prudential Leasing Company
(name of corporation)

is a corporation qualified to do business in the State of Idaho under the laws of
the State of Idaho.

B. Ownership of Facilities: (To be completed for hydropower projects only)

The hydropower facility to be developed pursuant to the attached Application for
Permit:

- (check one)
- ☐ Will not utilize existing man-made irrigation facilities such as a dam or a
canal.
- ☐ Will utilize existing man-made irrigation facilities such as a dam or a canal,
and permission of the owner is documented in an affidavit attached hereto.
- ☐ Will utilize existing man-made irrigation facilities such as a dam or a canal
and the owner of the facilities is the signee of this affidavit.

State of Utah)
County of Salt Lake) ss.

On this 5th day of June, 19 84, personally
appeared before me the signer(s) of the above instrument, who duly acknowledged
to me that he (she) (they) executed the same.

Prudential Leasing Company
By Larry R. Stevens
Applicant President

seal

Lorrie Butler
Notary Public residing at

SLC, Ut

My commission expires:

6/28/87

ASSIGNMENT OF WATER RIGHTS AND PERMITS

This Assignment, made and entered into this 20th day of November, 1982, by and between VERNON F. RAVENSCROFT and HARRIETT B. RAVENSCROFT, husband and wife, hereinafter referred to as "Assignors", and BONNEVILLE PACIFIC CORPORATION, a Utah corporation qualified to do business in the State of Idaho, and VERNON F. RAVENSCROFT and HARRIETT B. RAVENSCROFT, as "Assignees,"

W I T N E S S E T H:

WHEREAS, Assignors have obtained approved Permits for the use of water resources in the State of Idaho, Permit Nos. 37-7857, 37-7865 and 37-7922, hereinafter referred to as "Permits," copies of which are attached hereto as Schedule I and by this reference made a part hereof; and

WHEREAS, in connection with that certain Joint Venture Agreement between Assignors and Assignees, of even date herewith and incorporated herein by this reference, Assignors desire hereby to assign to Assignees all of their right, title and interest in and to said Permits for the purpose of holding said Permits for and on behalf of said Joint Venture.

NOW, THEREFORE, for TEN DOLLARS (\$10.00) and other good and valuable consideration, the receipt and adequacy of which are hereby acknowledged, the parties hereto agree as follows:

MICROFILMED

1. Assignors hereby assign to Assignees all of their right, title and interest in and to said Permits as contained in Schedule I attached hereto to hold for and on behalf of the said Joint Venture during the entire term of the Joint Venture.

2. Assignees hereby accept the assignment of said Permits as contained in Schedule I attached hereto in accordance with the terms hereof.

3. Assignees agree to allow the rights and interests referred to in said Permits to be used in connection with that certain Joint Venture Agreement, of even date herewith, between Assignors and Assignees.

4. That to induce the Assignees to accept this Assignment and the rights and obligations pursuant thereto, the Assignors hereby represent to the Assignees as follows:

(a) That the Assignors have duly performed all of the conditions presently required under said Permits;

(b) That said Permits are in full force and effect;

(c) That upon approval by the Department of Water Resources, State of Idaho, said Permits are assignable; and

(d) That Assignors agree to defend, indemnify and hold Assignees harmless from and against any loss, cost, expense, cause of action, claim or fee, including reasonable attorneys fees, which may be incurred by Assignees in connection with this Assignment provided any such loss or fee is not the result of and breach or negligence on the part of Assignees.

UNRECORDED

ASSIGNEES:

BONNEVILLE PACIFIC CORPORATION

By L. Wynn Johnson
Its Vice President

Vernon F. Ravenscroft
VERNON F. RAVENSCROFT

Harriett B. Ravenscroft
HARRIETT B. RAVENSCROFT

RECORDED

STATE OF IDAHO

APPROVED

APPLICATION FOR AMENDMENT OF A PERMIT

To change the point of diversion and/or the place of use.

Comes now Vernon Ravenscroft

Phone

of (address) P.O. Box 893 Boise, ID 83701

, and represents to the

Director of the Idaho Department of Water Resources:

That he is the owner and holder of Permit to appropriate the Public Waters of the State of Idaho No. 37-7865, and requests that the permit and permit map be changed as follows:

1. Point of diversion: NW ¼ SW ¼, Section 28, Township 6S, Range 14E, B.M., County of Gooding. Other points of diversion:

2. Period and nature of use: (irrigation, domestic, stockwatering, industrial, etc.)

NO CHANGE

Amount for purposes from to (both dates inclusive)
(cfs or acre feet per annum)

Amount for purposes from to (both dates inclusive)
(cfs or acre feet per annum)

Amount for purposes from to (both dates inclusive)
(cfs or acre feet per annum)

Amount for purposes from to (both dates inclusive)
(cfs or acre feet per annum)

3. Place of use or land to be irrigated:

TWP	RGE	SEC	NE¼				NW¼				SW¼				SE¼				TOTALS
			NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	
6S	14E	29										X	X						

Total number of acres to be irrigated =

4. a. Who owns the property at the point of diversion? Dean Shaeffer

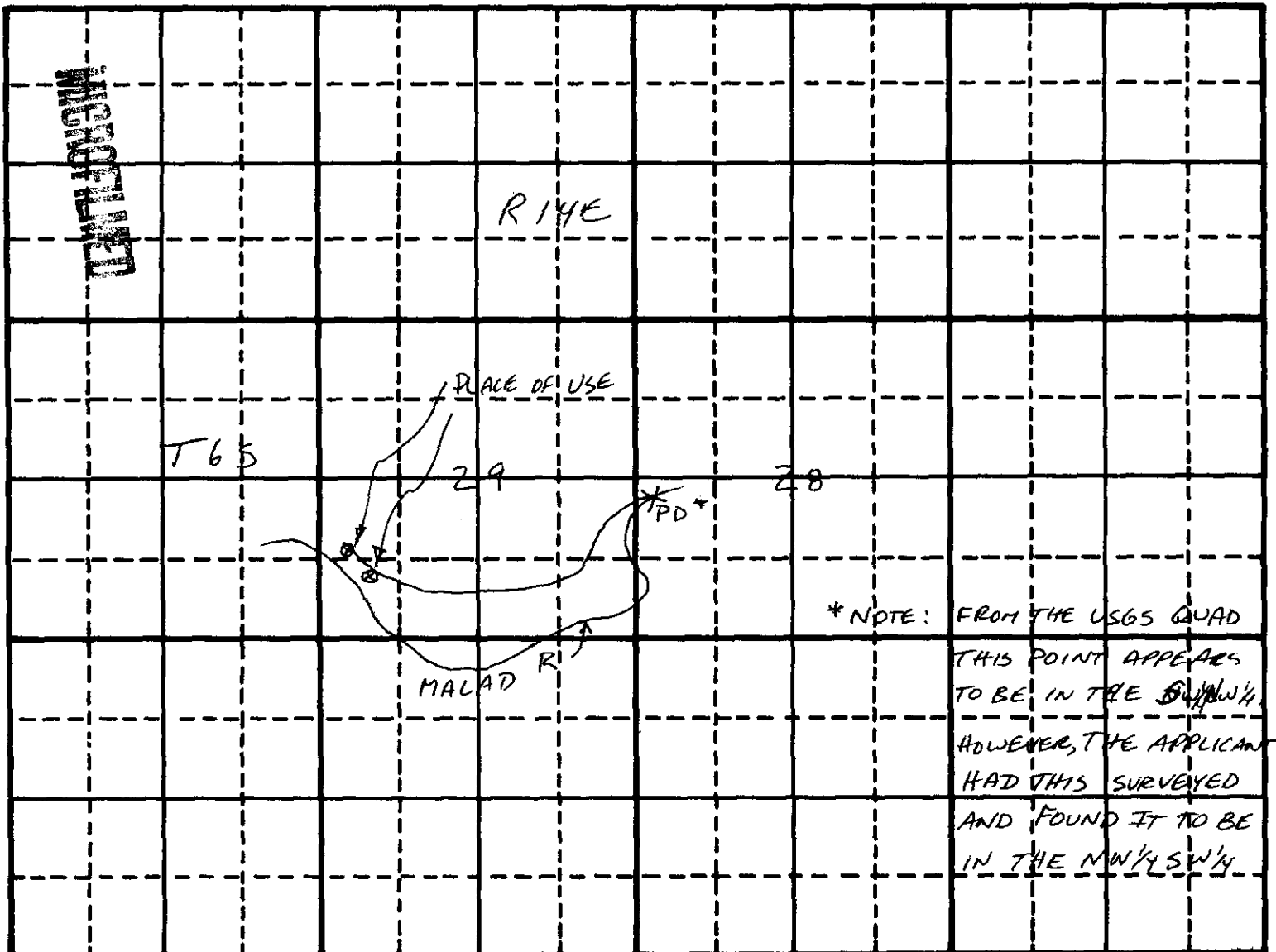
b. Who owns the land to be irrigated or the place of use? Ben Slater

c. If the property is owned by a person other than the applicant, describe the arrangement enabling the applicant to make this filing: Applicant has leases on both P/D & P/U.

MICROFILMED

Complete the following map by showing land and point of diversion as proposed by this amendment.

Show 40-acre subdivisions, townships, ranges and ditches.



Scale: 2 inches equal 1 mile.

That no one will be injured by such change, and that such change will be made at permit holder's own risk.

Signed at Bosai, Idaho, this 19 day of November, 1982.

Thomas J. J. J.
(Signature)

FOR DEPARTMENT USE ONLY

Preliminary check by DJR Fee = \$20.00 # 25280 Received by mg Date 11-19-82 # 25280

Publication prepared by _____ Date _____ Published in _____

Publication dates Not REQ'D PER CONV W/ REG SUPV 11-19-82 DJR

ACTION OF THE DEPARTMENT OF WATER RESOURCES

I, L. Glen Saxton, of the Department of Water Resources hereby

APPROVE THE ABOVE APPLICATION FOR AMENDMENT FOR PERMIT NO. 37-7865.

Witness my hand this 22nd day of Nov, 1982
L. Glen Saxton

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
APPLICATION FOR PERMIT

Date: 10/30/80

APPROVED

To appropriate the public waters of the State of Idaho

1. Name of applicant Vernon F. Ravenscroft Phone 345-2670

Post office address P.O. Box 893, Boise, ID 83701

2. Source of water supply Malad River which is a tributary of Snake River

3. Location of point of diversion is SE $\frac{1}{4}$ of SE $\frac{1}{4}$ of Section 29 Township 6-S

Range 14E B.M. Gooding County, additional points of diversion if any: _____

Product of irrigation drainage from Shoestring district which enters natural dry bed in NW $\frac{1}{4}$ NE $\frac{1}{4}$ Section 32-Township 6S-Range 14E. See Map.

4. Water will be used for the following purposes:

Amount 130 for Electric Generator purposes from Jan 1 to Dec. 1 (both dates inclusive)
(cfs or acre-feet per annum)

Amount _____ for _____ purposes from _____ to _____ (both dates inclusive)
(cfs or acre-feet per annum)

Amount _____ for _____ purposes from _____ to _____ (both dates inclusive)
(cfs or acre-feet per annum)

Amount _____ for _____ purposes from _____ to _____ (both dates inclusive)
(cfs or acre-feet per annum)

5. Total quantity to be appropriated:

a. 130 cubic feet per second and/or b. _____ acre-feet per annum.

6. Proposed diverting works:

a. Description of ditches, flumes, pumps, headgates, etc. Natural overflow dry bed need cleaned and a control gate established to regulate flow.

b. Height of storage dam none feet, active reservoir capacity _____ acre-feet; total reservoir capacity _____ acre-feet, materials used in storage dam: _____

Period of year when water will be diverted to storage _____ to _____ inclusive.
(Month/Day) (Month/Day)

c. Proposed well diameter is _____ inches; proposed depth of well is _____ feet.

7. Time required for the completion of the works and application of the water to the proposed beneficial use is two years (minimum 1 year - maximum 5 years).

8. Description of proposed uses:

a. If water is not for irrigation:

(1) Give the place of use of water: SW $\frac{1}{4}$ of SW $\frac{1}{4}$ of Section 29 Township 6-S
Range 14-E B.M.

(2) Amount of power to be generated: 275 KW horsepower under 30 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 _____.

If water is to be used for other purposes describe: Electric Generation

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

[illegible]**Total number of acres to be irrigated**

c. Describe any other water rights used for the same purposes as described above. Application
pending for 20 C.F.S. made as of September 1980

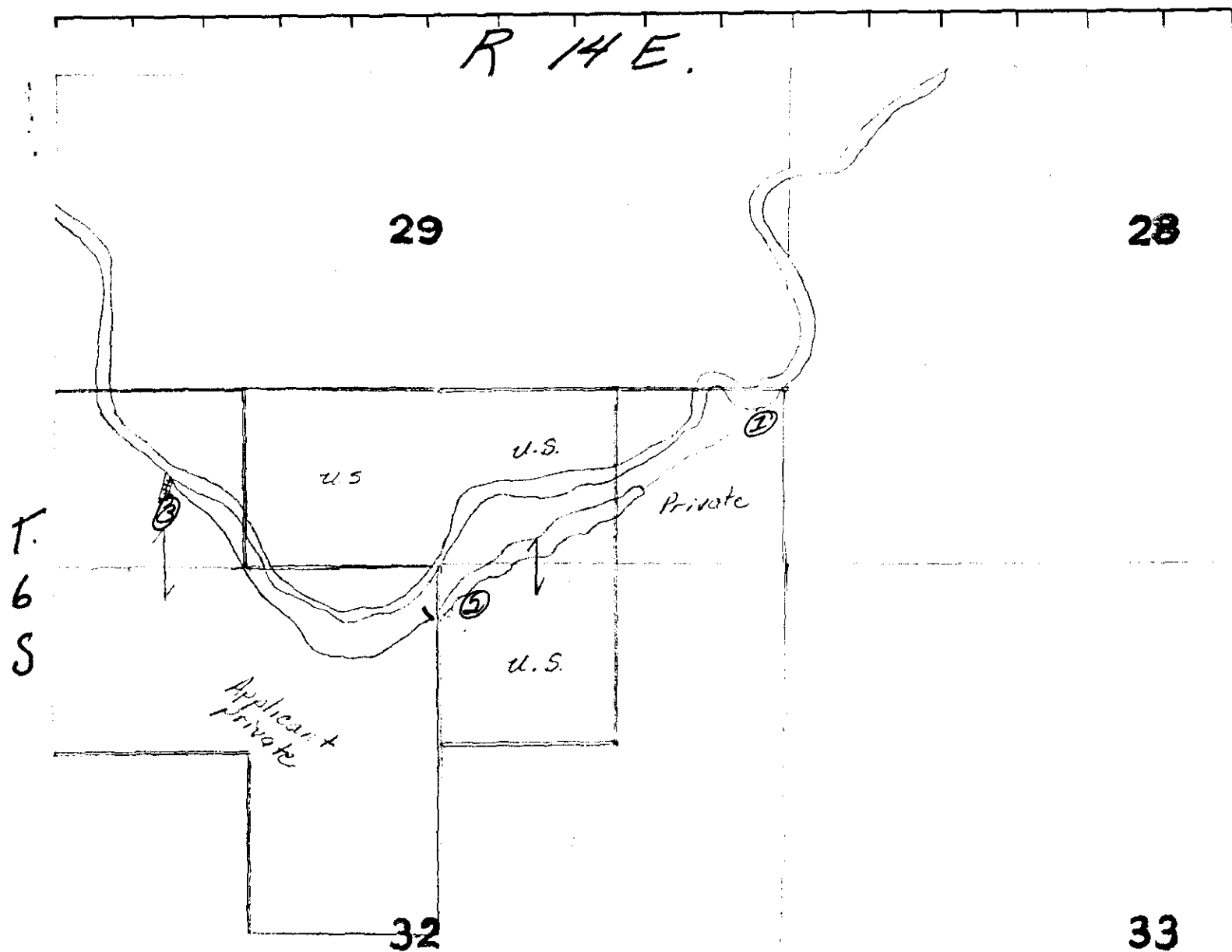
9. a. Who owns the property at the point of diversion Dean Shaeffer, Gooding, ID

b. Who owns the land to be irrigated or place of use Vernon Ravenscroft - Applicant

c. If the property is owned by a person other than the applicant, describe the arrangement enabling the applicant to make this filing Applicant already has a right of way established for livestock water diverted at same point. Additional right of way will be negotiated for this project.

10. Remarks (none)

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



1. Point of diversion
 2. Point of West point drainage ditch entry for added flow
 3. Plant site
- Elevation of diversion 3,329
Approximate Elevation at proposed generator 3,293

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.

Zernon Benveniste
(Applicant)

Proposed Priority 10/30/1980

Received by

AB

Date

11-4-80

Time

2:30 pm

4:07

Preliminary check by

Fee \$

1375.00 (1525.00) refund 150.00 #16660

Receipted by

marcy

Date

11/5/80

Publication prepared by

marcy

Date

11/19/80

Published in

goshute county leader

Publication dates

12/3 + 12/10/80

Publication approved

marcy

Date

11/24/80

Protests filed by:

hagerman valley citizens alert, inc
Withdrawn 4/30/81

Copies of protests forwarded by

Hearing held by

BF & LH

Date

4/23/81

Recommended for

approval

denial

by

LH

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. 37-7865, 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 84.

c. The rate of diversion, if water is to be used for irrigation under this permit, when combined with all other water rights for the same land shall not exceed 0.02 cubic feet per second for each acre of land.

d. Other: A measuring device and lockable controlling works of a type acceptable to the Department shall be permanently installed and maintained as part of the diverting works.

✓ This permit is subject to the provisions of Sections 42-205 through 42-210, Idaho Code, restricting the sale, transfer, assignment, or mortgage of this permit. Failure to comply with these provisions is cause for immediate cancellation of this permit.

✓ This project shall be operated in a manner that will not conflict or interfere with the future diversion of water for irrigation or other beneficial consumption.

✓ The issuance of this permit in no way grants any right-of-way or easement across the land of another.

✓ Use of water under this permit is subject to control by the watermaster of State Water District No. 37, Big Wood River.

✓ This permit does not constitute Idaho Public Utilities Commission or Federal Energy Regulatory Commission approval that may be required.

The proposed rock blasting in the stream should be conducted during low flow periods when the flow of the river does not exceed 50 cfs.

Witness my hand this

9th

day of August, 1982.

Chief, Operations Bureau

NOTED

Ident. No. 37-7857
37-7865
37-7922
JUL 24 1981

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
AFFIDAVIT FOR WATER RIGHTS TO BE USED
FOR POWER PURPOSES

A. Establishment of Residency: (Complete either 1, or 2).

1. Individual Applicant or Individual Members of a Partnership:

I, Kenneth J. Havenscroft of Tuttle Bate Blain, Jr.
(name) (city)

county of Boading, State of Idaho, being duly sworn, do
hereby certify that I am a bona fide resident of the State of Idaho.

2. Corporation:

I, _____ of _____,
(name) (city)

County of _____, State of Idaho, being duly sworn, depose
and say: That I am the designated registered agent of the _____
(name of corporation); that as such I am in charge of the registered

office of the said corporation as required by Section 30-1-12, Idaho Code, at
_____ Idaho, wherein are kept the corporate records required
(city)

by Section 30-1-52, Idaho Code: and that _____
(name of corporation)

is a corporation qualified to do business in the State of Idaho under the laws of
the State of Idaho.

B. Ownership of Facilities: (To be completed for hydropower projects only)

The hydropower facility to be developed pursuant to the attached Application for
Permit:

- (check one)
- ☒ Will not utilize existing man-made irrigation facilities such as a dam or a
canal.
- ☐ Will utilize existing man-made irrigation facilities such as a dam or a canal,
and permission of the owner is documented in an affidavit attached hereto.
- ☐ Will utilize existing man-made irrigation facilities such as a dam or a canal
and the owner of the facilities is the signee of this affidavit.

State of Idaho _____)
County of Ada) ss.

Kenneth J. Havenscroft
Applicant

On this 22nd day of July, 19 81, personally
appeared before me the signer of the above instrument, who duly acknowledged
to me that he (~~she~~) (~~they~~) executed the same.

Nancy L. Beria
Notary Public residing at Eagle, Idaho

My commission expires:

Perpetual

Individual Owner

AFFIDAVIT TO ESTABLISH RESIDENCE

I, Vernon F. Ravenscroft of Tuttle (Bliss Star Rt) County of Gooding, State of Idaho, being duly sworn, do hereby certify that I am a bona fide resident of the State of Idaho.

Subscribed and sworn to before me this 24th day of November, 1980

/s/ Vernon F. Ravenscroft

/s/ Nancy J. Barale
Notary Public
Residence Eagle, Idaho
My Commission Expires Perpetual

Corporation or Association

AFFIDAVIT TO ESTABLISH RESIDENCE
OR QUALIFICATIONS TO DO BUSINESS UNDER THE LAWS OF
IDAHO...

I, _____ of _____, County of _____, State of Idaho, being first duly sworn, depose and say: That I am the designated statutory agent of the _____, that as such I am in charge of the registered office of the said _____, as provided by Section 30-143, Idaho Code, at _____, Idaho, wherein are kept the records provided by Section 30-144, Idaho Code, and that _____ is a legal _____ qualified to do business in the State of Idaho under the laws of the State of Idaho.

/s/ _____

Subscribed and sworn to before me this _____ day of _____, 19____

/s/ _____

Notary Public
Residence _____
My Commission Expires _____

RECORDED
INDEXED
NOV 24 1980
IDAHO

VERNON RAVENSCROFT

Telephone 208 837-4802
TUTTLE ROUTE — BLISS, IDAHO
83314

November 26, 1980

Mr. Terry Blau
Senior Water Resource Agent
Idaho Dept. of Water Resources
1041 Blue Lakes Blvd. N.
Twin Falls, ID 83301

RECEIVED
DEC 2 1980
Department of Water Resources
Southern District Office

Re: Application for permit and your letter Nov. 13, 1980

Dear Mr. Blau,

We submit items requested as follows:

1. Affidavit of residency
2. An estimate from J. W. Barber, Barber Engineering, giving the estimates for the construction of the plant, the head works, and the intertie. The civil works to get the water to the site has been estimated by a local contractor at \$10,000. That contractor is Mr. Vernon Mason of Wendell, Idaho.
3. Two items on Financial status:
 - A. Letter of intent from Tippet Land & Mortgage Co.
 - B. A copy of an August 25, 1980, financial statement prepared for the Twin Falls Bank & Trust Co.
4. A map of locations and elevations of the intake generating unit and location of discharge back to stream.
5. Tax notice for the involved personal property in Section 29 & 32, Township 6S, Range 14E.
6. Summations taken from the hydrologic data as supplied to me by your Boise office.

The construction costs at this time are still estimates by qualified people. If additional detail is needed, please let me know.

Sincerely,

Vernon
Vernon F. Ravenscroft

Enc.



BARBER ENGINEERING

a division of J-U-B ENGINEERS, Inc.

TELEPHONE (208) 376-8480, (208) 376-7330 • 250 SOUTH BEECHWOOD AVE. • SUITE III • BOISE, IDAHO 83709

October 8, 1980

RECEIVED

OCT 9 1980

Vern Ravenscroft
P.O. Box 893
Boise, Idaho 83701

Dear Vern:

This will confirm our various conversations relative to the possible installation of a hydroelectric plant on your property near Tuttle, Idaho. Our firm has done a short assessment of this site and feel that it is worth further investigation and a feasibility study. It appears that this feasibility study should look into the possibility of installing one turbine generator set rated 224 KW which is the amount of power which could be developed by a flow of 100 CFS with a net head of 30 feet or to install two smaller generator sets to take advantage of the flow in excess of the 100 CFS. In accordance with our agreement, we have made cost estimates for the construction of the head gates, spillway, turbine generator, control equipment, speed increaser, transformer, equipment structure, transmission line and intertie with the Idaho Power Company. These estimates including engineering seem to indicate that the cost would be in the magnitude of \$95,000 to \$120,000 depending on whether one or two units prove to be the most economical.

As you know, we are doing a large number of studies similar to this and we are generally using a figure of 5% of gross income for the annual operation and maintenance costs and a similar figure for the cost of management. It is our opinion that because of the closeness of your Penta Post operation that your operation and maintenance and management costs will be considerably less.

Our firm would be willing to do a feasibility study on this project as we discussed at a cost of \$4,100.00.

Sincerely,

BARBER ENGINEERING

James W. Barber, P.E.
Manager

JWB/dw

MICROFILMED

COMMERCIAL

ELECTRICAL ENGINEERING
INDUSTRIAL

RESIDENTIAL



November 14, 1980

RECEIVED
NOV 17 1980

Mr. Vernon Ravenscroft, President
Ravenscroft Family Corporation
P. O. Box 545
Boise, Idaho 83701

Dear Vern:

This letter is to follow up on our recent conversation regarding your proposed hydro-power facility in the Tuttle area. We will be very interested in discussing this further with you once your feasibility study is completed. We feel quite confident that Connecticut General will look very favorably upon an economical, feasible program.

Tippet Land & Mortgage Company has been the loan correspondent for Connecticut General Life Insurance Company over the past 13 years, making farm, ranch and agri-business loans throughout Idaho, Oregon and Washington.

We are looking forward to working with you on this submission.

Very truly yours,

Lonnie Leavell
Lonnie Leavell

LL:ls

RECEIVED

INDIVIDUAL OR PARTNERSHIP STATEMENT

To Twin Falls Bank & Trust Company, Twin Falls, Idaho

From—NAME Vernon F. Ravenscroft

(Penta Post
(Farm

ADDRESS P. O. Box 893, Boise 83701 BUSINESS (Consulting Associates

For the purpose of obtaining credit with you from time to time, I herewith submit the following as being a fair and accurate statement of my financial condition on August 25 19 80

(I we) agree to notify you of any material change in (my our) financial condition, including any expansion, time purchases or loans contemplated. In consideration of granting of such credit (I we) agree that if at any time (I we) become insolvent or commit an act of bankruptcy, or if any of the representations made prove to be untrue; then and in either case, all (my our) obligations held by you shall, at your option, immediately become due and payable without demand or notice, and the same may be charged against any deposit account kept or credit due (me us) on your books.

ASSETS					LIABILITIES				
Cash on hand and in banks	-	-	-	1 500 00	Notes Payable, to banks	-	-	-	14 279 00
1 month salary due					(Give due dates and details on reverse)				- 0 -
Notes Receivable (Included w/- asst)				13 500 00	Other Notes Payable	-	-	-	
(Give due dates and details of important items on reverse)					(Give due dates and details on reverse)				2 319 00
Accounts Receivable					Open Accounts Payable	-	-	-	
(Give full details of important items on reverse)					Chattel Mortgages on				- 0 -
Salable Merchandise				3 900 00	due	19	-	-	
(How valued)									
Barley & 2nd crop hay									
Livestock					Other Indebtedness	-	-	-	
Horses @					(Give full details on reverse)				
Cattle @				- 0 -					
Sheep @					Term loan TB&T				
Hogs @					50% Consulting Assoc.				5 000 00
Total					Campaign note, 1st Sec.				3 000 00
Estimated Value Growing Crops					Campaign term to				
Acres Crop Yield Price Total					individuals				10 000 00
See Attached									
Total				10,910					
Less estimated expenses to be incurred				4,000					
Net proceeds of growing crops				6 910 00					
TOTAL QUICK ASSETS				25 810 00	TOTAL CURRENT DEBTS				49 506 00
Real Estate (List on reverse)				233 550 00	Mortgages or Liens on Real Estate, due	19	-	-	
Machinery and Tools (Actual value)				2 450 00	N.F.L.B.-Due final 1994				
Stocks and Bonds (List on reverse)				28 050 00	Id. First 2nd Mtg.				
Other Assets (Describe)					final due 3/1/81				
					Total Liabilities	-	-	-	84 104 00
Expected net wages				4 600 00	Net Worth	-	-	-	210 356 00
balance of calendar yr.				294 460 00					
TOTAL					TOTAL				294 460 00

Are any of above assets pledged to secure indebtedness? Yes, Mortgages on ranch only

Life Insurance carried \$ 5,000 payable to Wife

Fire Insurance on personal property \$ 50,000, on buildings \$ Do you carry Employers Liability Insurance?

Are any suits or litigation pending either for or against firm? Details

OVER

Signed

Vernon F. Ravenscroft

DESCRIPTION OF REAL ESTATE

LOCATION	IMPROVEMENTS	IN WHOSE NAME IS TITLE HELD	VALUE OF LAND AND IMPROVEMENTS	AMOUNT OF MORTGAGES OR LIENS	WHEN DUE
SEE ATTACHED			\$	\$	
			\$	\$	
			\$	\$	
			\$	\$	

DESCRIPTION OF STOCKS AND BONDS OWNED

	Par Value	Market Value
SEE ATTACHED	\$	\$
	\$	\$
	\$	\$

DESCRIPTION OF NOTES PAYABLE AND OTHER INDEBTEDNESS

SEE ATTACHED

DESCRIPTION OF NOTES RECEIVABLE

Name	Amount	Due	Other Details
SEE ATTACHED	\$		
	\$		

DESCRIPTION OF ACCOUNTS RECEIVABLE

Name	Amount	Due	Other Details
SEE ATTACHED	\$		
	\$		

PROFIT AND LOSS STATEMENT

Total Sales for Year - - - - -	\$	Net Income from Business - - - - -	\$
Less—Cost of Merchandise Sold - - -	\$	Other Income (from Investments, etc.)	\$
Gross Profit - - - - -	\$	Gross Income - - - - -	\$
Less—Expense of Conducting Business:		Less—Withdrawals by Individual or	
Salaries - - -	\$	Partners/Dividends Paid - - -	\$
Depreciation		Added to Net Worth - - - - -	\$
Bad Debts - - -			
Other - - -	\$		
Net Income from Business - - - - -	\$		

The foregoing statement is a COPY of the original statement, signed by the maker, in the credit files of this bank.

Officer

The following is submitted as supplemental information to explain some of the items above given and to make possible a more complete understanding of the borrower's affairs:

VERNON F. RAVENSCROFT - Personal

ASSETS

Notes & Accounts Receivable

Penta Post Earnings (1979-80)	\$ 300.00
George V. Hjort Contract	6,200.00
50% Consulting Associates Accounts Receivable	<u>7,000.00</u>

TOTAL	\$13,500.00
-------	-------------

Merchandise Salable

50% Barley Harvest	\$2,900.00
2nd Crop Hay	<u>1,000.00</u>

TOTAL	\$ 3,900.00
-------	-------------

Growing Crops (all 50/50 rent basis)

26 Acres Beans (20 sacks @ \$30)	\$7,800.00
32 Acres Hay (1 ton @ \$60)	960.00
12 Acres Corn (100 bu @ \$5/hnd.)	1,500.00
Forest Products	300.00
Fall Pasture	<u>350.00</u>

TOTAL	10,910.00
-------	-----------

Less estimated expenses	<u>4,000.00</u>
-------------------------	-----------------

NET TOTAL	\$ 6,910.00
-----------	-------------

Description Of Real Estate

Ranch - 1½ miles NE of Tuttle	
100 Acres improved with dual irrigation well-hand line sprinklers & cement ditches (\$1,250 per acre)	\$125,000.00
House (Cost 1974)	60,000.00
Dry Land (53 acres @ \$100)	5,300.00
Tree Plantings (16 acres)	
Gravel (1 acre)	17,000.00
6½ acres commercial siding, Tuttle	24,000.00
15 Shares N.Side Canal Water	<u>2,250.00</u>

TOTAL	\$233,550.00
-------	--------------

MICROFILMED

ASSETS (Continued)Machinery and Tools

3 Tractors @ \$500	\$1,500.00
2 Harrows @ \$200	400.00
1 Renovator @ \$250	250.00
Other Misc. tools & equipment	- 0 -
1969 Buick	<u>300.00</u>

TOTAL	\$2,450.00
-------	------------

Miscellaneous Assets

Stock - Penta Post	\$19,700.00
Federal Land Bank Stock	2,750.00
Consulting Associates	
50% Stock & Fixed Assets	<u>5,600.00</u>

TOTAL	\$28,050.00
-------	-------------

<u>Cash on hand & Balance of Salary</u>	<u>\$6,100.00</u>
---	-------------------

TOTAL ASSETS	\$294,460.00
--------------	--------------

LIABILITIESNotes Payable to Banks

Idaho First Ranch operation	\$5,500.00
Twin Falls B&T Personal (+ int.)	1,586.30
Twin Falls B&T Consulting Assoc.	833.34
50% Installment 11/1/80 + int.	
Federal Land Bank Installment	6,360.00
12/1/80	<u></u>

TOTAL	\$14,279.64
-------	-------------

<u>Miscellaneous Accounts including</u> <u>Credit Cards</u>	\$2,319.00
--	------------

MICROFILMED
1980
SEP 11 1980
FBI - BUTTE

LIABILITIES (Continued)Other Indebtedness

Twin Falls B&T	\$ 5,000.00
50% Consulting Assoc. after 1980 payment	
Campaign - First Security	3,000.00
Campaign - term to individuals	<u>10,000.00</u>

TOTAL	\$18,000.00
-------	-------------

Mortgages

Federal Land Bank Balance after current payment	\$47,161.00
First National 2nd Mtg. 1981 final payment	<u>2,345.20</u>

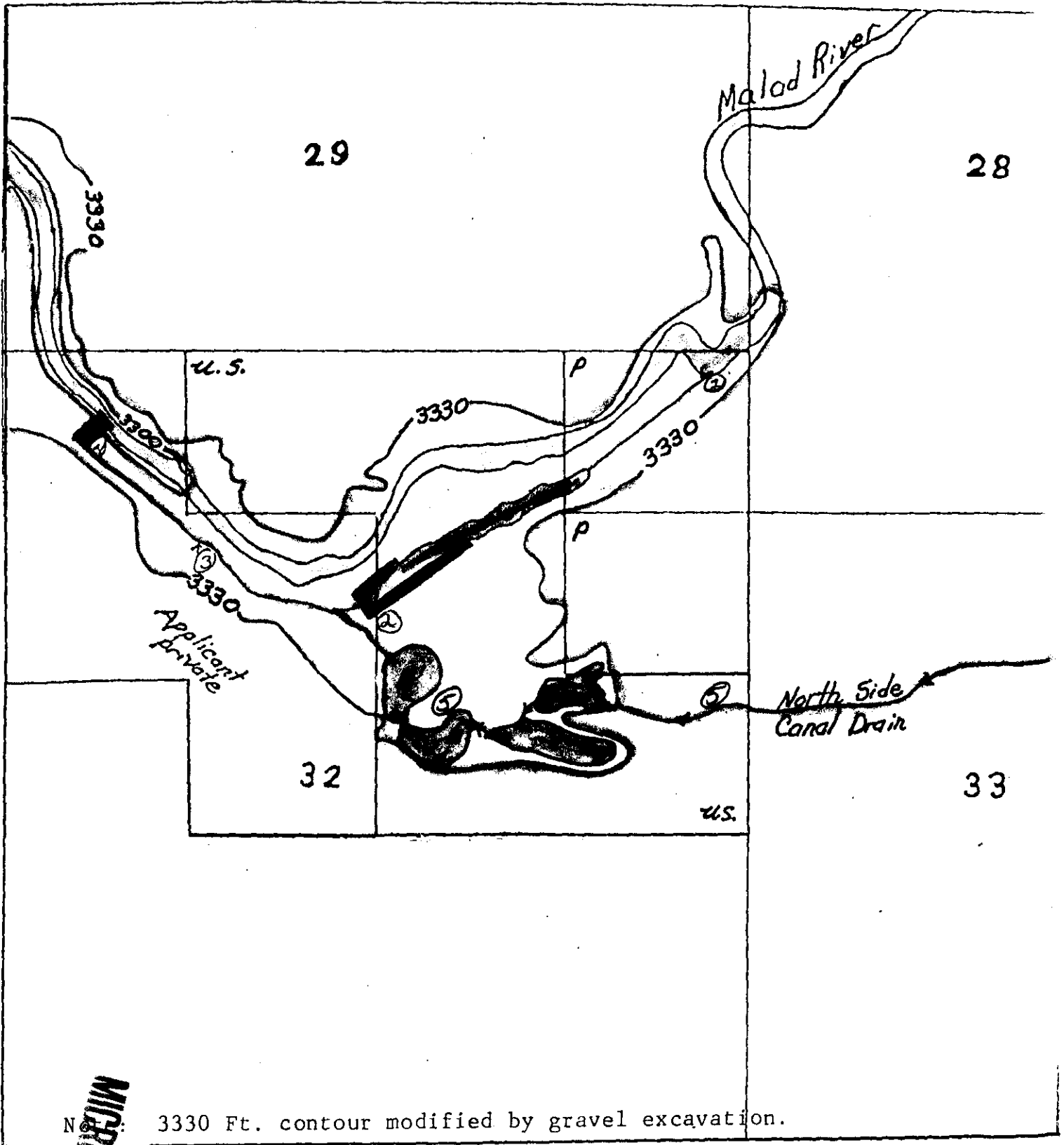
TOTAL	<u>\$49,506.20</u>
-------	--------------------

TOTAL DIRECT LIABILITIES	\$84,104.84
--------------------------	-------------

Co-signer for others - Explanation

Balance of 50% on Consulting Associates account	\$5,833.00
--	------------

MICROFILMED



1. Dry Bed Natural Diversion
2. Control Dam & Dykes in natural dry bed
3. Constructed Canal or Pipe Syphons
4. Power Plant Site
5. Ponds and Waterway on canal drainage

Proposed Plant
30' drop
150 CFS flow
KW Capacity 315
Average Calculated Production
KW 295.4
Diversion Elevation 3,329'
Turbine Elevation 3,293'

AVAILABLE WATER

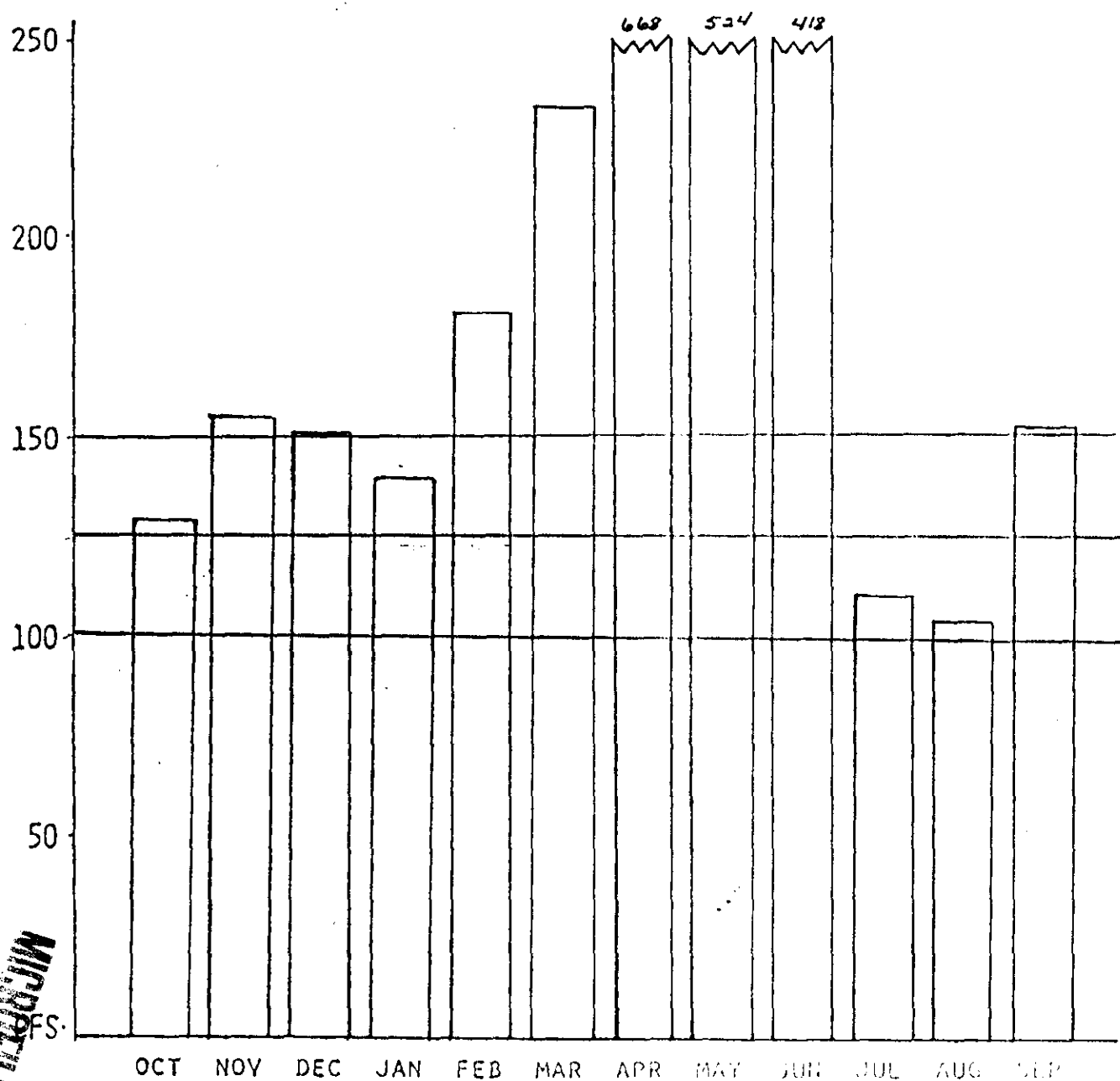
Measuring gauge 13152500 is located approximately one and one half miles up stream from the projected site on the Ravenscroft Ranch. The site is in the SW $\frac{1}{4}$ -SW $\frac{1}{4}$ Section 29. The gauging station is in the NE $\frac{1}{4}$ -SW $\frac{1}{4}$ of Section 21, both Township 6-S Range 14-E.

Fifty one years of flow data are available. Fifty years (1928-1977) have been averaged by the Idaho Water Resources Department and that record is the basis of the graph on average flow per month.

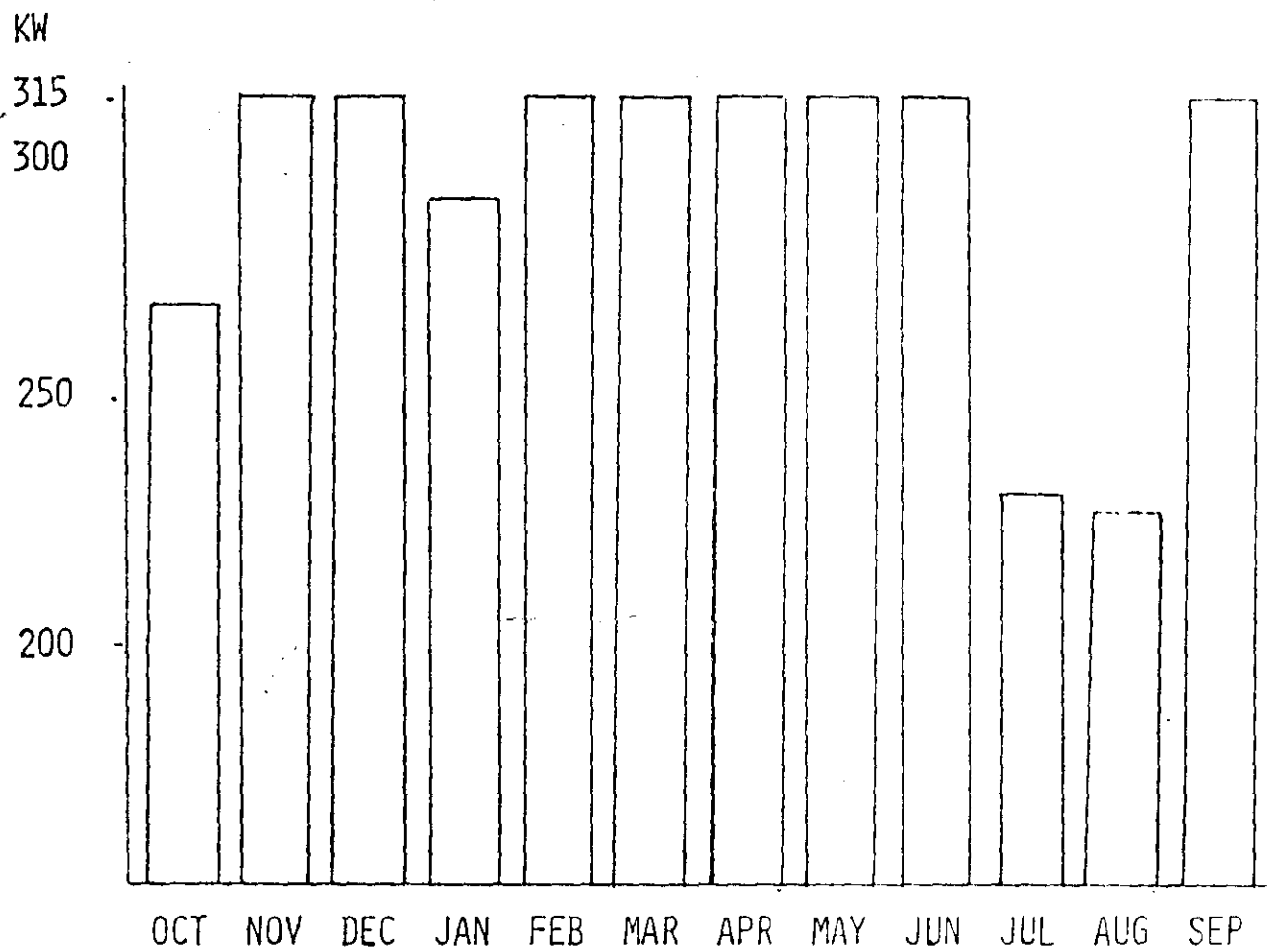
MICROFILMED
1987

MALAD RIVER
STATION 13152500 (NEAR TUTTLE)

50 YEAR FLOW DATA
AVERAGE CFS PER MONTH
YEARS 1928 - 1977



RAVENS CROFT RANCH GENERATION SITE
MALAD RIVER (NEAR TUTTLE)
DROP 30'-150 CFS UNIT
K.W. CAPACITY CALCULATION ON 50-YEAR FLOW AVERAGE



MICROFILMED



STATE OF IDAHO

DEPARTMENT OF FISH AND GAME

Region 4
868 East Main - Box 428
JEROME, IDAHO 83338

April 15, 1981

RECEIVED
APR 17 1981

Vern Ravenscroft
P. O. Box 893
Boise, Idaho 83701

Re: License Exemption Application - Malad River Hydropower Project
Vern Ravenscroft - 37-7865 (130 cfs)
37-7857 (20 cfs)

Dear Vern:

This letter is to acknowledge your contact with the Department of Fish and Game regarding your proposed hydro projects in Gooding County using water from Malad River. The Department does not oppose the project due to the potential fish and wildlife benefits that would accrue from establishment of ponds on adjacent public land.

With proper plantings around the ponds, along with sealing of the ponds to provide integrity, we should be able to maintain some valuable fish and wildlife values in the area.

Sincerely,

William E. Webb
Region 4 Supervisor

WEW:ar

cc: Bureau of Program Coordination

NOTICE OF TAXES DUE
GOODING COUNTY, IDAHO

1980

Nº 3156

TO INSURE PROPER CREDIT RETURN NOTICE WITH YOUR REMITTANCE

PERSONAL CHECKS ACCEPTED
SUBJECT TO BANK CLEARANCE

ALL CHECKS AND DRAFTS
SHOULD BE MADE PAYABLE TO

DORIS O. ROBERTSON
Gooding County Tax Collector
County Courthouse
Gooding, Idaho 83330

Vernon Ravenscroft
310 Village Lane
Boise, Idaho 83702

3156-

Sec 29 T 6 R 14
SW¼SW¼

A CHECK MARK INDICATES DELINQUENT TAXES	
1977	
1978	
1979	

Nº 3156

1980

DO NOT DETACH THIS STUB

SECOND INSTALLMENT MUST BE
PAID ON OR BEFORE

JUNE 20, 1981

or it will become delinquent and PENALTY OF
2% WILL BE ADDED, plus interest at the rate
of one percent (1%) per month (12% per year)
from January 1, 1981. Payments CANNOT be
accepted between June 20 and the fourth
Monday of July.

Cash ☐ Check ☐

Date _____

Paid By _____

Received By _____

Nº 3156

1980

DO NOT DETACH THIS STUB

FIRST INSTALLMENT MUST BE
PAID ON OR BEFORE

DECEMBER 20, 1980

or it will become delinquent and PENALTY OF
2% WILL BE ADDED, plus interest at the rate
of one percent (1%) per month (12% per year)
from January 1, 1981. Payments CANNOT be
accepted between December 20 and the
fourth Monday of January.

Cash ☐ Check ☐

Date _____

Paid By _____

Received By _____

MARKET VALUE	DISTRIBUTION OF GENERAL TAXES					FULL MARKET VALUE LESS HOMESTEAD EXEMPTION IF APPLICABLE	TOTAL TAXES		Received By _____			Received By _____		
									FINAL INSTALLMENT			FIRST INSTALLMENT		
	STATE	CITY	SCH. DIST.	CEMETERY	HIGHWAY		AMOUNT	AREA CODE	TOTAL TAX	2nd INSTALLMENT	AREA CODE		1st INSTALLMENT	AREA CODE
10,375	-22		33.80	.92	11.53	10,375	80.78	30	80.78	40.39	30		40.39	30
	29.76	4.44	.17											
	COUNTY	FIRE	REG. AIRPORT	WENDELL REC.				SPECIAL CODE			SPECIAL CODE			SPECIAL CODE
	DISTRIBUTION OF GENERAL TAXES													
LESS: EXEMPTION														

TOTAL TAX DUE

80.78

80.78

40.39

40.39

SPECIAL CODE
1—Weed Eradication
2—
3—Am. Falls #1
4—Gooding Irrig.
5—Wendell Irrig.
6—TV

PENALTY		Pen.		Pen.
TAX & PEN.		Tax & Pen.		Tax & Pen.
INTEREST		Int.		Int.
TOTAL		TOTAL		TOTAL

NOTICE OF TAXES DUE
GOODING COUNTY, IDAHO

1980

Nº 3176

Nº 3176

Nº 3176

1980

1980

TO INSURE PROPER CREDIT RETURN NOTICE WITH YOUR REMITTANCE

PERSONAL CHECKS ACCEPTED
SUBJECT TO BANK CLEARANCE

ALL CHECKS AND DRAFTS
SHOULD BE MADE PAYABLE TO

DORIS O. ROBERTSON
Gooding County Tax Collector
County Courthouse
Gooding, Idaho 83330

A CHECK MARK INDICATES DELINQUENT TAXES	
1977	
1978	
1979	

Vernon F. Ravenscroft
310 Village Lane
Boise, Idaho 83702

3176-

Sec 32 T 6 R 14
N½NW¼ less Tax 2, SE¼NW¼

DO NOT DETACH THIS STUB

DO NOT DETACH THIS STUB

SECOND INSTALLMENT MUST BE
PAID ON OR BEFORE

JUNE 20, 1981

or it will become delinquent and PENALTY OF
2% WILL BE ADDED, plus interest at the rate
of one percent (1%) per month (12% per year)
from January 1, 1981. Payments CANNOT be
accepted between June 20 and the fourth
Monday of July.

Cash ☐ Check ☐

Date _____

Paid By _____

Received By _____

FIRST INSTALLMENT MUST BE
PAID ON OR BEFORE

DECEMBER 20, 1980

or it will become delinquent and PENALTY OF
2% WILL BE ADDED, plus interest at the rate
of one percent (1%) per month (12% per year)
from January 1, 1981. Payments CANNOT be
accepted between December 20 and the
fourth Monday of January.

Cash ☐ Check ☐

Date _____

Paid By _____

Received By _____

MARKET VALUE	DISTRIBUTION OF GENERAL TAXES					FULL MARKET VALUE LESS HOMESTEAD EXEMPTION IF APPLICABLE	TOTAL TAXES		FINAL INSTALLMENT			FIRST INSTALLMENT		
	STATE	CITY	SCH. DIST.	CEMETERY	HIGHWAY		AMOUNT	AREA CODE	TOTAL TAX	2nd INSTALLMENT	AREA CODE		1st INSTALLMENT	AREA CODE
84,948	1.78		276.76	7.56	94.38	84,948	661.40	30	661.40	330.70	30		330.70	30
	243.63	36.36	.93											
	COUNTY	FIRE	REG. AIRPORT	WENDELL REC.										
	DISTRIBUTION OF GENERAL TAXES													
							1.94	3	1.94	.97	3		.97	3
							18.00	6	18.00	9.00	6		9.00	6

LESS: EXEMPTION

TOTAL TAX DUE

681.34

681.34

340.67

SPECIAL CODE
1—Weed Eradication
2—
3—Am. Falls #1
4—Gooding Irrig.
5—Wendell Irrig.
6—TV

PENALTY		Pen.
TAX & PEN.		Tax & Pen.
INTEREST		Int.
TOTAL		TOTAL

MAILED 67
JUN 21 1981

AFFIDAVIT of PUBLICATION

State of Idaho, }
County of Gooding } SS.

Sary Snot being first duly sworn, deposes and says that he is the printer (publisher) of the Gooding County Leader, a newspaper published every week in Gooding, County of Gooding, State of Idaho, that said newspaper has been continuously and uninterruptedly published for a period of seventy-eight consecutive weeks prior to the first publication of the annexed notice, and is a newspaper qualified to publish legal notices as provided by act of the 1919 session of the legislature of the State of Idaho, known as House Bill 145; that the annexed advertisement was published once

each week for 2 consecutive issues in said newspaper proper and not in a supplement; that the date of the first publication

of said advertisement was on the 3 day of December

1980, and the date of the last publication was on the 10

day of December, 1980

[Signature]

Subscribed and sworn to before me this 10

day of December, 1980.
(SEAL)

[Signature]
NOTARY PUBLIC

GOODING COUNTY LEADER

Gooding, Idaho

COST OF PUBLICATION

Number of Lines in Notice 28
Number of Insertions 2
Lines tabular at 38
Lines straight at 28 29 8.12
Subsequent lines at 28 19 5.32
TOTAL COST ... 13.44

COPY OF NOTICE

(Paste Here)

37-7865

TITLE OF NOTICE

Brounecraft

PLAINTIFF ATTORNEY

DEFENDANT

PLAINTIFF

Bill to Water
BILL TO

[Signature]

PUBLICATION RATES

(Idaho Code, Rev. Statutes 1971)

7 pt. per line, straight	21c
7 pt. per line, tabular	315c
7 pt. per line, successive insertions	15c

35666

No. 2628

Department of Water Resources
Southern District Office

P.O. BOX 444, 1944
\$3.00
Source: MALAD
Reference to Bureau
Date paid: 10/10/44
Amount: 10.00
Enclosed: 10.00
20.00

ADVERTISING

PRINTING

OFFICE SUPPLIES

PHONE 934-4449

BOX 56

GOODING, IDAHO 83330

GOODING COUNTY LEADER

ONE MEDIUM • ONE COVERAGE • ONE COST

ACCOUNT NO.	DATE	CASH ☐ CHARGE ☒ ON ACCT. ☐ PAID OUT ☐ DISPLAY ☐ CLASS ☐ SUPPLIES ☐ MISC. ☐
	12/10/80	
M	Days of Water	

QUAN.	DESCRIPTION	AMOUNT	
100	37-7865	13	44
	Boonville		

JE	SPECIAL RATE	START DATE	EXP. DATE	
NEW ACCT	RENEWAL	PZ	STATE	BILL
PSA	NO. PAP	RATE	SORT KEY	SACK

LEGAL NO.

2628

PRINTING NO.

35666

PLEASE RETAIN THIS TICKET FOR YOUR RECORDS
MOORE DEALER - GOODING COUNTY LEADER

UNITED STATES OF AMERICA
FEDERAL ENERGY REGULATORY COMMISSION

NOTICE OF AMENDMENT OF EXEMPTION

(January 30, 1998)

Take notice that the following hydroelectric application has been filed with the Commission and is available for public inspection:

- a. Type of Application: Amendment of Exemption
- b. Project No.: 4055-024
- c. Date Filed: October 7, 1996, March 3, 1997, and December 29, 1997
- (1. Applicant: Vernon F. Ravenscroft
- e. Name of Project: Ravenscroft Ranch Project
- f. Location: On the Malad River in Gooding County, Idaho.
- g. Filed Pursuant to: Federal Power Act, 16 U.S.C. §791(a)-825(r)
- h. Applicant Contact: Mr. Vernon Ravenscroft
HC60, Box 1469
Bliss, ID 83314
(208) 837-4936
- i. FERC Contact: Paul Shannon, (202) 219-2866
- j. Comment Date: MARCH 16, 1998
- k. Description of Filing: Vernon F. Ravenscroft filed an application for amendment of exemption to increase the height of the project's penstock intake structure by two feet to help prevent ice build-up near the intake. The exemptee also proposes to increase the height of the project's spillway by six inches to increase the operating water surface level in the project's canal and stabilize river bypass flows during low flows. The exemptee states the increased spillway height will not affect high water levels at the upstream diversion dam. The higher water levels in the canal will affect lands owned or leased by the exemptee and lands on a right-of-way obtained from the U.S. Bureau of Land Management.

DC-A-30

Project No. 4055-024

- 2 -

1. This notice also consists of the following standard paragraphs: B, C1, and D2.

B. Comments, Protests, or Motions to Intervene -- Anyone may submit comments, a protest, or a motion to intervene in accordance with the requirements of Rules of Practice and Procedure, 18 CFR 385.210, .211, .214. In determining the appropriate action to take, the Commission will consider all protests or other comments filed, but only those who file a motion to intervene in accordance with the Commission's Rules may become a party to the proceeding. Any comments, protests, or motions to intervene must be received on or before the specified comment date for the particular application.

C1. Filing and Service of Responsive Documents -- Any filings must bear in all capital letters the title "COMMENTS", "RECOMMENDATIONS FOR TERMS AND CONDITIONS", "PROTEST", OR "MOTION TO INTERVENE", as applicable, and the Project Number of the particular application to which the filing refers. Any of the above-named documents must be filed by providing the original and the number of copies provided by the Commission's regulations to: The Secretary, Federal Energy Regulatory Commission, 888 First Street, N.E., Washington, D.C. 20426. A copy of any motion to intervene must also be served upon each representative of the Applicant specified in the particular application.

D2. Agency Comments -- Federal, state, and local agencies are invited to file comments on the described application. A copy of the application may be obtained by agencies directly from the Applicant. If an agency does not file comments within the time specified for filing comments, it will be presumed to have no comments. One copy of an agency's comments must also be sent to the Applicant's representatives.

Linwood A. Watson, Jr.
Acting Secretary

RECEIVED

FEB 06 1998

Department of Water Resources

FEB 16 1995

FEDERAL ENERGY REGULATORY COMMISSION

WASHINGTON, D. C. 20426

Project No. 4055-020--Idaho
Ravenscroft Ranch Project
Vernon F. Ravenscroft

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

RECEIVED

FEB 21 1995

Department of Water Resources

Mr. Vernon F. Ravenscroft
c/o John Runft
1936 Priest Place
Boise, ID 83706

Dear Mr. Ravenscroft:

We received your reports, dated January 4 and January 17, 1995. Your report of January 17 included reports from your consultants. We also recieved your January 26, 1995 supplement.

Your two reports revised your November 15, 1994 proposal for making modifications to the project in order to correct the project's minimum flow compliance problems. The January 4 report included your proposal for restarting generation during the period of planning and construction of project modifications.

Your two reports were apparently filed before the Idaho Department of Fish and Game (IDFG) responded to your request to amend your article 2 minimum flow from seasonal requirements of 5 cfs and 80 cfs to a year-round 15 cfs. Many of the technical aspects of the information you have filed were formulated using the assumption of a 15-cfs requirement. The IDFG, in a letter to you dated January 23, 1995, did not accept your amendment request. As specified in this letter, several revisions to the information you have filed with the Commission now need to be made in order for us to approve your planned modifications.

Request to Restart Operation

The project is currently not generating because the Commission's letter of October 13, 1994 required you, pursuant to the September 2, 1994 Compliance Order, to cease project operation by October 19, 1994. Our letter of December 20, 1994 informed you that you may receive Commission approval to resume generation before the changes identified in an approved plan are completed if you identify interim flow releases that include large enough margins to protect the required minimum flows. Our letter stated that the interim flows, or inflows to the project, would need to be released until the changes approved in the plan are complete and documented with the Commission.

Your January 4, 1995 report included a plan to restart generation while protecting the required minimum flows. You proposed, for the period ending April 15, a minimum flow of 10 cfs at the present gage at the mid-point of the bypass reach.

You proposed to check the reading 3 times daily and record the flows in the project diary.

You presented monthly average flow data for the past 50 years from the U.S. Geological Survey (USGS) for your reach of the Malad River, and used it to illustrate that the flows in the bypass reach were unlikely to decrease to the required minimums, given the combinations of turbines you planned to operate. You also indicated that, because during the period of February and March the river flow is governed only by natural inflow, rapid inflow changes are unlikely to cause problems.

Your plan for interim minimum flow release during project modification is acceptable, and you may now restart generation. However, you must determine the appropriate combinations of turbines to operate based on present conditions, not historical flows. If a flow of below 10 cfs is recorded, generation must cease immediately, and the project must not be restarted until there is sufficient inflow to support generation and the required minimum flow. If, however, the 5 cfs minimum flow required by the project's article 2 terms and conditions is violated at any time, the project must cease generation and not restart until after the work is completed. You must notify the Commission within 5 days if, at any time during generation, the flow in the bypass reach drops below 10 cfs.

Streamflow Gaging

Our December 20, 1995 letter stated that the weir and gage you were proposing will need to record the flow in the bypass reach and the status of generation at the powerhouse. According to your January 17 filing, generation status and bypass flows will be electronically recorded by the computer every 15 minutes, and copies of the records will be available to all relevant parties.

Plan Clarification and Operating Scenarios

Your report of January 26 outlined your recommended changes to the project modification plans to ensure compliance with the 5 cfs and 80 cfs requirements of article 2. These changes included the revision of the orifice system so that orifice plates can be changed to match flow requirements, the installation of an additional 30-inch pipe through the embankment with a gate at the upstream end, and the addition of two flow control structures (four total). In order for us to evaluate these modifications, we need a map and a detailed description of the proposed location for all structures to be added or altered during the modification.

Your report of January 5 provided the operating scenario we requested in our December 20, 1994 letter. However, the scenario

in the report was apparently written using the 15 cfs requirement that was not approved. An operating scenario needs to be provided that uses the 5 cfs and 80 cfs minimum flow flow values.

Shutoff/restart

The reports from your consultants included in your January 17 report addressed shutoff and restarting of the project. However, these discussions were both written assuming that the minimum flow would be 15 cfs, and were included in scenarios using that value. Shutoff/restart specifications need to be readdressed using the 5 cfs and 80 cfs minimum flow values.

Maintenance of Gaging, Recording, and Flow Maintenance Equipment

In a January 5 report that you included in your January 17 filing, you suggested a schedule for maintenance, including weekly verification of the accuracy of new instrumentation. You provided a proposed schedule that would be used. You indicated that, in addition, the flow control boxes and trashracks would be cleaned after any automatic project shutdown.

Compatability with other Terms and Conditions, Agreements

You stated in your January 17 filing that, once completed, the new system will operate at a higher water level, maximizing the fish, wildlife and water quality values of the reregulating ponds. The information contained in your report of January 17 stated that the water level upstream will fluctuate up to 2.5 feet during project operation. It is not clear whether these level changes are still expected to occur with the continuance of the IDFG requirement for seasonal minimum flows of 5 and 80 cfs. We need evidence that any expected water level fluctuations, or other planned alterations, will not endanger compliance with the terms and conditions of article 2.

Conclusions and Requested Actions

Your plan for interim minimum flow release during project modification is acceptable, and you may now restart generation. As stated above, if a flow of below 10 cfs is recorded, generation must cease immediately, and the project must not be restarted until there is sufficient inflow to support generation and the required minimum flow. If, however, the 5 cfs minimum flow required by the project's article 2 terms and conditions is violated at any time, the project must cease generation and not restart until after the work is completed. You must notify the Commission within 5 days if, at any time during generation, the flow in the bypass reach drops below 10 cfs.

We cannot complete our review of your plan for project modification until you have filed the following information.

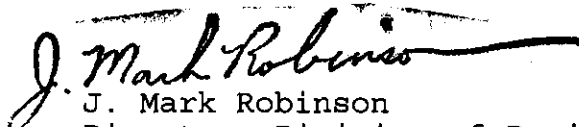
1. A map identifying the locations of all structures to be added or altered during the modification, and detailed specifications of added or altered structures.
2. A revised operating scenario that outlines how the project will operate while ensuring the release of the minimum flows required by article 2.
3. A revised plan for project shutoff and restart when the stipulated minimum flows are approached.
4. Evidence that proposed project alterations, such as fluctuations in upstream river level and in the reregulating ponds, will not endanger compliance with the terms and conditions of article 2.

Seven copies of the requested information should be filed with:

The Secretary
Federal Energy Regulatory Commission
Mail Code: DPCA, HL-21.1
825 N. Capitol Street, N.E.
Washington, D.C. 20426

If you have any questions, contact Pete Yarrington at (202) 219-2939.

Sincerely,



J. Mark Robinson
Director, Division of Project
Compliance and Administration

cc: Jerry M. Conley, Director
Idaho Department of Fish and Game
600 S. Walnut
Boise, ID 83707-0025

Mr. Norman C. Young
Idaho Department of Water Resources
1301 N. Orchard Street
Statehouse Mail
Boise, ID 83720-9000

U.S. Department of Interior
Bureau of Land Management
P.O. Box 2B
Shoshone, ID 83352



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

R. KEITH HIGGINSON
DIRECTOR

February 15, 1995

Vernon Ravenscroft
Tuttle Route
Bliss, ID 83314

Re: Tuttle Hydro Plant
Water Rights 37-07857, 37-7865, 37-7922

Dear Mr. Ravenscroft:

I have reviewed your January 17, 1995 correspondence and related documents concerning FERC requirements and engineering design for bypass flows at your Tuttle hydro plant.

It is my understanding that the proposed plant operation and bypass flow design will provide a year round continuous bypass flow of at least 20 cfs. The proposed operation and design appears to minimize river flow fluctuations. This is desirable since river flow fluctuations caused by plant operation has been a source of complaints in the past.

The 20 cfs minimum by-pass should be sufficient during the irrigation season as long as downstream rights are satisfied. As no data was presented concerning natural channel losses between the hydro plant diversion and the downstream water right diversions, one can not assume that a 20 cfs bypass will be sufficient at all times. You are reminded that the watermaster shall continue to have authority to regulate this diversion if the downstream rights can not be satisfied.

The other item of concern in your letter is the reference to re-regulating ponds. I believe that there has been some questions raised in the past about the number and size of these ponds, and their impact on river flow conditions. Some questions have been raised as to whether these ponds have been authorized by your permits. I wish to advise you that development of additional ponds is prohibited unless you obtain additional water rights or demonstrate that any new ponds are already authorized under existing permits.

Thank you for the opportunity to review and comment on the proposed plant operation and bypass flow design.

Sincerely,

A handwritten signature in cursive script, appearing to read 'Norman C. Young'.

Norman C. Young
Administrator, Water Management Division

OD-5816
AJ5816NP
SELECTION FILE: MALAD_HYD

IDAHO DEPARTMENT OF WATER RESOURCES
ADJUDICATION SOURCE SUMMARY REPORT
BY WATER SOURCE/POINT OF DIVERSION

DATE: 02/14/95
TIME: 16:44:39
PAGE: 2

WATER RIGHT NUMBER	CURRENT OWNER NAME	PRIORITY DATE	STG	POINT OF DIVERSION	POD FLAG	TOTAL DIVERSION	TOTAL ACRES	WATER USES
A37-07857	RAVENSCROFT, VERNON F	09/25/1980	P	06S 14E 28	NWSW	20.000 CFS		28
A37-07865	RAVENSCROFT, VERNON F.	11/05/1980	P	06S 14E 28	NWSW	130.000 CFS		28
A37-07922	RAVENSCROFT, VERNON F.	07/10/1981	P	06S 14E 28	NWSW	50.000 CFS		28
A37-00447D	MARVEL, JONATHAN H.	07/01/1889	D	06S 14E 30	SESW	0.800 CFS	60.0	01
A37-11131	DALTON, RICHARD H.	07/01/1889	D	06S 14E 30	NESESW	5.600 CFS	301.0	01,04
A37-07944	DALTON, RICHARD H.	12/30/1981	P	06S 14E 30	NESESW	0.740 CFS	37.0	01
A37-01160	JUSTICE DITCH CO.	05/31/1900	D	06S 14E 30	NENESE	4.000 CFS	351.2	01,43,04
A37-01175	JUSTICE DITCH CO.	04/01/1906	D	06S 14E 30	NENESE	3.340 CFS	351.2	01,43,04
A37-01175A	SIMMS, CLIFFORD J.	04/01/1906	D	06S 14E 30	NENESE	3.340 CFS	175.0	01

WATER SOURCE: TWO SPRINGS

A37-04403	QUARTER CIRCLE LAZY H INC	05/01/1889	S	01S 11E 31	NESENE	4.000 CFS	205.0	01
-----------	---------------------------	------------	---	------------	--------	-----------	-------	----

OD-5816
 AJ5816NP
 SELECTION FILE: MALAD_HYD

IDAHO DEPARTMENT OF WATER RESOURCES
 ADJUDICATION SOURCE SUMMARY REPORT
 BY WATER SOURCE/POINT OF DIVERSION

DATE: 02/14/95
 TIME: 16:44:35
 PAGE: 1

WATER RIGHT NUMBER	CURRENT OWNER NAME	PRIORITY DATE	STG	POINT OF DIVERSION	POD FLAG	TOTAL DIVERSION	TOTAL ACRES	WATER USES
=====								
WATER SOURCE: BIG WOOD RIVER								

A37-0086720	BIG WOOD CANAL CO	11/16/1905	D	02S 18E 30	SESENE	3000.000 CFS	27006.0	01
A37-0086720	BIG WOOD CANAL CO	11/16/1905	D	02S 18E 30	NESE	3000.000 CFS	27006.0	01
A37-0086720	BIG WOOD CANAL CO	11/16/1905	D	03S 18E 9	NENESE	3000.000 CFS	27006.0	01
A37-0086720	BIG WOOD CANAL CO	11/16/1905	D	04S 18E 15	NWSE	3000.000 CFS	27006.0	01
A37-0086720	BIG WOOD CANAL CO	11/16/1905	D	04S 19E 25	SWSE	3000.000 CFS	27006.0	01
A37-0086720	BIG WOOD CANAL CO	11/16/1905	D	05S 15E 12	SESW	3000.000 CFS	27006.0	01
A37-0086720	BIG WOOD CANAL CO	11/16/1905	D	05S 15E 15	NWNE	3000.000 CFS	27006.0	01
A37-0086720	BIG WOOD CANAL CO	11/16/1905	D	05S 19E 5	NWSE	3000.000 CFS	27006.0	01
WATER SOURCE: COVE CREEK								

A37-02471	IDAHO POWER CO	05/14/1946	L	06S 13E 25	SWSW	900.000 CFS		28
A37-02128	IDAHO POWER CO	11/25/1908	L	06S 13E 35	NENW	700.000 CFS		28
A37-02471	IDAHO POWER CO	05/14/1946	L	06S 13E 36	NWNW	900.000 CFS		28
WATER SOURCE: DYER CREEK								

A37-04403	QUARTER CIRCLE LAZY H INC	05/01/1889	S	01S 11E 31	NESENE	4.000 CFS	205.0	01
WATER SOURCE: MALAD RIVER								

A37-04403	QUARTER CIRCLE LAZY H INC	05/01/1889	S	01S 11E 31	NESENE	4.000 CFS	205.0	01
A37-0086720	BIG WOOD CANAL CO	11/16/1905	D	02S 18E 30	SESENE	3000.000 CFS	27006.0	01
A37-0086720	BIG WOOD CANAL CO	11/16/1905	D	02S 18E 30	NESE	3000.000 CFS	27006.0	01
A37-0086720	BIG WOOD CANAL CO	11/16/1905	D	03S 18E 9	NENESE	3000.000 CFS	27006.0	01
A37-0086720	BIG WOOD CANAL CO	11/16/1905	D	04S 18E 15	NWSE	3000.000 CFS	27006.0	01
A37-0086720	BIG WOOD CANAL CO	11/16/1905	D	04S 19E 25	SWSE	3000.000 CFS	27006.0	01
A37-0086720	BIG WOOD CANAL CO	11/16/1905	D	05S 15E 12	SESW	3000.000 CFS	27006.0	01
A37-0086720	BIG WOOD CANAL CO	11/16/1905	D	05S 15E 15	NWNE	3000.000 CFS	27006.0	01
A37-0086720	BIG WOOD CANAL CO	11/16/1905	D	05S 19E 5	NWSE	3000.000 CFS	27006.0	01
A37-02471	IDAHO POWER CO	05/14/1946	L	06S 13E 25	SWSW	900.000 CFS		28
A37-00447C	ZELLER, FRED	07/01/1889	D	06S 13E 30	NESESW	4.000 CFS	233.0	01,04
A37-07920	STATE OF IDAHO	06/19/1981	P	06S 13E 34	NENW	39.000 CFS		34
A37-07920	STATE OF IDAHO	06/19/1981	P	06S 13E 35	NWNE	39.000 CFS		34
A37-02128	IDAHO POWER CO	11/25/1908	L	06S 13E 35	NENW	700.000 CFS		28
A37-02472	IDAHO POWER CO	05/14/1946	L	06S 13E 35	NENW	650.000 CFS		28
A37-04112	KING HILL IRRIGATION DISTRICT	03/26/1902	S	06S 13E 35	NWNW	370.000 CFS	11275.7	01,43,04
A37-02471	IDAHO POWER CO	05/14/1946	L	06S 13E 36	NWNW	900.000 CFS		28
A37-12743	FLORES, THOMAS RICHARD	12/31/1919	J	06S 14E 9	NESW	0.070 CFS		04
A37-00238A	SAVAGE, JOE S	04/15/1883	D	06S 14E 16	NWNWSE	2.000 CFS	127.5	01
A37-00239A	SAVAGE, JOE S	08/29/1884	D	06S 14E 16	NWNWSE	1.720 CFS	127.5	01
A37-00240A	SAVAGE, JOE S	06/01/1895	D	06S 14E 16	NWNWSE	2.280 CFS	127.5	01
A37-00239D	MC CABE, ROBERT	08/29/1884	D	06S 14E 21	SENW	0.680 CFS	393.0	01
A37-00607D	MC CABE, LINDA JOY	08/15/1886	D	06S 14E 21	SENW	1.290 CFS	85.0	01
A37-00608D	MC CABE, ROBERT	04/15/1887	D	06S 14E 21	SENW	0.422 CFS	85.0	01
A37-00240D	MC CABE, ROBERT	08/29/1895	D	06S 14E 21	SENW	0.920 CFS	393.0	01

ERNON RAVENSCROF

Telephone 208 837-~~4802~~4936
TUTTLE ROUTE — BLISS, IDAHO
83314

Boise Ph: 344-1487
1936 Priest Pl.
Boise, Idaho 83706

January 17, 1995

RECEIVED

JAN 18 1995

Department of Water Resources

The Secretary
Federal Energy Regulatory Commission
Mail Code: DPCA, HL-21.1
825 N. Capitol Street, N.E.
Washington, D.C. 20426

Dear Secretary:

By letter, December 20, 1994, Mr. Mark Robinson, Director, Division of Project Compliance and Administration asked for clarification of our operation plan for the automation of the bypass flow controls at the headworks for project 4055-020 Idaho. Since submitting the original concepts and supporting engineering report to you, I have submitted blueprints and proposed operational standards to the Shoshone Bureau of Land Management and to the Jerome office of the Idaho Department of Fish and Game (1/3/95). On January 17, 1995 these materials were submitted to the Idaho Water Resources Department and are herewith being mailed to your Portland Regional Office.

Exhibits enclosed with this report are:

1. Blueprints of the anticipated facilities and the position of same.
2. Engineering statements from Engineers Bob Ross (instrumentation and computer controls) and Don Watts (structure and water control design). It should be noted that the facilities designed by Engineer Watts will require that the water be released in a controlled volume through fixed orifice openings in a headgate box located on the downstream side of the major outflow tubes already placed in the diversion structure. While more expensive than a broad crested weir, these control structures will have several advantages:
 - a. Will minimize and better control the beaver problem.
 - b. In regard to the pressure gauge, the design will provide a wide elevation range of at least 2 feet in which to adjust or terminate the flow patterns as compared to only inches for a weir structure. See engineers' flow table. The increment and decrement pattern will take place between 20 c.f.s. (2.5' of head) and 27 c.f.s. (4.5' of head).
 - c. Will better control ice and trash impact on the flow measurements.
 - d. Can be constructed on the rock ledge immediately above the river without entry into the river channel. This avoids the additional regulatory involvement by the Army Corps of Engineers.
3. Copy of letter to the Idaho Department of Fish and Game requesting an amendment to the current bypass stipulations. These proposed amendments have been coordinated with both B.L.M. and Idaho Department of Water Resources. These amendments will provide a standard minimum year-round release of 15.14 c.f.s. By design and operational agreement the project

will release an additional 5 to 10 c.f.s. to offset bed loss, evaporation, and side channel diversions. Since the downstream consumptive water rights total 15.14 c.f.s., no emergency bypass valve will be needed at the power house. Since generation flow adjustments will be achieved in a range from 25% to 75% above the stipulated minimum bypass flow, there should seldom, if ever, be a question of stipulation compliance.

4. Copy of letter to B.L.M. formalizing agreements from 1/13/95 meeting with that agency.

In answer to the six specific questions asked in the 12/20/94 letter, please be advised:

1. Recording discipline. The project will adjust generation flows at levels equal to or above 20 c.f.s. bypass flow. These adjustments will be in the range of 125% up to 175% of the stipulated bypass flow. Please see Engineer Ross's report for details on this flow discipline. These values, plus a record of the generation status will be electronically recorded at an agreed interval by the computer, and those records will be available to all germane parties.
2. Bypass tube obstruction. The pressure gauge stilling well will be situated immediately adjacent to the bypass orifices. As such, any obstruction or ice on the trash racks ahead of the orifices, or obstruction at the entry to the tubes (28 feet ahead of the orifices) will cause the plant to shut down and prompt immediate remedial pressure on the bypass orifices. Since the critical turnoff level will be at or above the top of the 30" tube and well above the top of the 24" tubes (also, the water to be exhausted is less than 25% of the capacity of the tubes) there will never be a heavy draw to collect trash or floating ice. With 75% unused flow capacity in the tubes, the solid ice levels are unlikely to reach an obstruction level.

As for the beaver problem, I am advised by Idaho Fish and Game Department that beaver respond to the sound of running water. In this instance, the sound will be 28 feet from the point at which the water enters the exhaust tubes. If that much insulation is insufficient, it will be an easy installation to extend each pipe another 20 feet out into deeper water and thereby further protect from the beaver problem; or, in the alternative, to provide control fencing well ahead of the water entry into the tubes.

With the automated controls the entire system will operate at a higher water level. This, in turn, should minimize the beaver problem and maximize the fish, wildlife and water quality values of the re-regulating ponds.

3. The engineers have both addressed the question of manual restarting. It is desirable that the automated project controls have a full ability to decrement or increment the flows in the bypass range of 20 to 27 c.f.s.

A complete and positive shut-down at 17 c.f.s. has been suggested by Engineer Ross. This amount represents approximately 113% of the stipulated flow. A positive and total shut-down at that flow level is hereby accepted.

4. Operation scenario. Please see the report from Engineer Ross for operation scenarios. Since the critical turn-off point and the top of the exhaust tubes are below the current spillway elevation and the bypass orifices are also situated in the bottom 19" of the control boxes (equals the bottom half of each exhaust tube) any decrement of the power flow will immediately put pressure on the bypass orifices.
5. Other provisions.
 - a. Side channel riparian habitat. Maintaining live water in the side channel will be much easier at a 15 c.f.s. minimum (20 to 27 c.f.s. actual flow) as compared to the previous 5 c.f.s. stipulation during the months of July - April 15th.
 - b. River riparian habitat. It need be recorded that two non-native species, Box Elder (*Acer negundo*) and Russian Olive (*Eleagnus angustifolia*) are invading the riparian zone along the Malad River banks within the project 4055 community. These two species are both aggressive trees which were brought to the neighboring farms for farmstead shade (Box Elder) and windbreak uses (Russian Olive). Both have demonstrated drought resistance and, on farmstead plantings, grow very well with semi-monthly irrigation. These two species will eventually dominate the river riparian zone at this project site. Their presence is one additional reason why the new wildlife, fishery, and water quality features that have been created by project 4055 provide a positive environmental impact for the community.
 - c. The bypass flow control structures will be situated on a bedrock ledge where no riparian growth naturally occurred.
 - d. Water storage. The re-regulating ponds were created by opening water passage into adjacent (and exhausted) gravel pits. These ponds serve to the benefit of downstream irrigators as well as their benefit to project 4055. The new bypass flow stipulations will provide the entire downstream water delivery via the bypass river delivery.
6. Inspection Schedule. The flow versus project operation record will be automatically recorded by the computer at an agreed interval. The computer and diversion communication equipment will be checked by competent technicians on the schedule determined by Engineer Ross. The control boxes will be opened and the trash racks cleaned after any automatic turn-off and monthly during all low flow periods.

The orifice openings themselves will be approximately 11" circular-exit openings made in a plate of stainless steel. The water will first pass through a 3" (on center) trash rack; it will have a free fall of at least 8" to the rock ledge and then a 3' to 4' free fall into the river.

F.E.R.C.
1/17/95
P. 4

It is unlikely that any trash will lodge in the orifice openings. The openings will also be inspected regularly each time the trash racks are checked for any reason.

A separate appeal to restart operation at project 4055 has previously been submitted to the Commission. Based upon the details of this report and the pending cooperative agreements with the germane regulatory agencies I petition favorable approval of that separate appeal and the acceptance of the flow management plan elaborated by this communication.

If there are questions, please call 208-344-1487. We are changing location and my new address is 1936 Priest Place, Boise, 83706.

Sincerely,

A handwritten signature in cursive script, reading "Vernon Ravenscroft". The signature is written in dark ink and is positioned above the printed name.

Vernon Ravenscroft

ROSS ENGINEERING
Control Systems Design
Industrial Computer Programs

3470 S. Cole Rd. Boise, ID 83709

(208) 362-2025

January 5, 1995

RECEIVED JAN 0 9

Mr. Vern Ravenscroft
Consulting Associates
1843 Broadway Ave
Boise, ID 83706

Reference: Tuttle Hydro Plant

Subject: Response to FERC Letter - Dec 20, 1994

Dear Vern:

This letter clarifies the details of plant operation using bypass flow to control plant operation once the proposed modifications at the diversion structure are in place. The orifice box structure proposed by Don Watts, A&B Engineering should provide excellent resolution for measuring bypass flow. It should be noted that the orifice box is designed to measure bypass river flow up to a maximum of about 28 CFS. When bypass flows exceed this amount the structure will overtop and all resolution will be lost. It is my opinion that the proposed orifice structure is sufficient for use in verifying project compliance based on a year around 15 CFS minimum stream flow. It is not design to gage the river through all possible ranges of flow.

The following is a description of the proposed control logic for the plant. The specific unit combination incrementation flows and the associated timings stated in this letter are subject to field modification based on the actual response rates of the canal / reregulating pond system. The proposed control logic will be "tuned" to best optimize the operation of the plant and bypass flow at the time of system installation.

The control logic is based on putting the combination of turbines on line which best matches available river flow and by using the storage capability of the upstream pond. The upstream pond level will be allowed to fluctuate as much as 2 1/2 feet during operation. The control logic will allow the upstream level to build up and then excess stored water will be used by turning on the next higher flow combination. Up to 74 acre feet of water are available for stored use by the plant. (See attached table - A&B Engineering - Ravenscroft Bypass - Orifice Flow and Storage Times.) At any instant, the bypass flow plus the plant flow will probably be different than the inflow to the pond

system due to the regulating effect of the upstream ponds. In the following description, the inflow is the upstream inflow of the Malad River to the pond system. The bypass flow is the flow just below the diversion structure and the plant flow is the total flow down the canal through the project.

The three fixed geometry turbines are sized as follows:

Unit #1 - 34 CFS
 Unit #2 - 66 CFS
 Unit #3 - 124 CFS

Plant Operation

Under normal operation, all units available for operation, there are eight possible flow combinations.

Combination Number *****	Units On Line *****	Plant Flow (CFS) *****
0	None	0
1	#1	34
2	#2	66
3	#1,#2	100
4	#3	124
5	#1,#3	158
6	#2,#3	190
7	#1,#2,#3	224

The control logic works by measuring bypass flow and incrementing the unit combination number each time the bypass flow goes above 25 CFS and decrementing the unit combination number each time the bypass flow goes below 20 CFS. An emergency low flow shutoff will be provided at 17 CFS. Appropriate time delays will be provided to allow the unit combination change to take effect between combination incrementation or decrementation. The plant will be allowed to increment or decrement unit combination automatically. If the plant goes into an emergency low bypass flow shutdown it will have to be manually restarted. The low flow shutoff will override both automatic and manual modes of operation and will cause an alarm in the plant. This alarm will initiate a telephone call out via the plant alarm system autodialer.

The following describes how this logic will work, starting under a condition where all units are enabled, all units are off line and the inflow is at or below 20 CFS. Referencing the Orifice Flow and Storage Times Chart, 20 CFS corresponds to 2.5 ft in the pond. At some point in time, the inflow will increase to at or above 25 cfs (3.9 ft pond level). At this

time, the unit combination number will be incremented by the control system which corresponds to unit #1 on line. When #1 comes on line, the canal flow will be 34 CFS and the bypass flow will be 25 CFS. This will put the reregulating pond system into a deficit of 34 CFS. Given no increase in inflow, there is enough pondage to run the unit in excess of seven hours before the pond level drops to the point that the bypass flow drops back to 20 CFS. If the inflow continues to increase, the time that the unit stays on increases. If the inflow increases just in excess of 54 CFS, the unit will stay on line and the bypass flow will decrease over a 48 hour period to 20 CFS. If the inflow increases to 59 CFS the bypass flow will increase to 25 CFS and the unit combination will again increment. Unit combination number two corresponds to only unit #2 on line, plant flow of 66 CFS. In this case unit #1 will go off line and #2 will come on line. The time interval between combination changes will be about 4 hours.

Again the inflow may increase, decrease, or stay the same. If the inflow increases a little, the unit may stay on line. If it decreases or stays the same, the combination number will decrement and unit #2 will go off line and #1 will come back on line. If the inflow increase a lot, the combination number will again increment and #1 will be put on line in addition to unit #2. The same logic is followed until all units are on line.

The unit combination number is incremented each time the bypass flow increases past 25 CFS or remains there for more than one hour. The unit combination number is decremented when the flow drops below 20 CFS or remains there for over 15 minutes. In this way the plant flow will track river flow but will respond more rapidly under decreasing flow than under increasing flow. Under normal pond level control, the maximum change in plant flow for any unit combination change is 34 CFS. A safety margin in the upstream pond of one foot of elevation is observed between normal minimum operating level (20 CFS) and the minimum stream flow. A safety margin of .4 ft is observed between the emergency shutdown point and the minimum stream flow. Under normal operation, the time interval between changing unit combinations will be in excess of 6 hours. Upstream pond level during this time will fluctuate a maximum of 1.5 feet.

Plant Operation - One or More Units Unavailable for Operation

It is anticipated that plant will be allowed to operate in automatic under conditions where one or more units are disable. The worst case scenario is if both units #1 and #2 are disabled. In this case the incrementation level would automatically be changed to 28 CFS bypass flow, rather than 25 CFS. This change provides for an addition 38 acre feet of pondage. When unit #3 is the only unit that can cycle on and off, a ¹³⁸~~100~~ CFS step change in canal flow will occur. Referencing the Orifice Flow and Storage Times table, this would result in a on - off cycle time of about four hours under worst case conditions. The next worst case condition is if unit #1 is disabled. Under this scenario, the step changes in canal flow is not uniform and cycle times may vary depending on which unit

combination is put on line. In this case, the cycle times will vary between four to eight hours.

Response - FERC Requested Actions

1. The Sevens multilogger will record the date, time, bypass level, and plant KW output at predetermined time intervals. This data will be stored on a battery backed RAM memory card. This data can be downloaded directly from the Stevens logger via an RS-232 port or the RAM card may be removed and the data read out on a standard IBM compatible personal computer. The reports generated by the Stevens logger data can be submitted to appropriate agencies. As described in my 11/15/94 letter, the plant will shut down on loss of signal from the logger or on low bypass level. The shutdown functions of the plant are controlled by the General Electric Series 6 programmable controller at the plant.

The proposed shutdown levels will protect both minimum stream flow and downstream water rights. The plant discharges directly into the Malad River. When the plant shuts down, the Malad River backs up into the plant tailrace. Stranding of tailrace habitat when the plant shuts down is not an issue since the tailrace and the Malad River are coincident. No bypass valve at the powerhouse is required to insure compliance.

2. The bypass flow will mainly be controlled by which combination of turbines are put on line. The design of the orifice box is such that pond level will have to drop over one foot below normal operating level for violation to occur. If the pipes through the dam become blocked by ice or debris, the flow into the orifice box will decrease and a low bypass flow condition will be detected. This will cause either a decrementation in unit combination or a total shutdown of the unit, depending on how bad the blockage is. It is unlikely that the orifice plate itself will become blocked because the orifice box incorporates a trashrack upstream of the orifice. The level control is between the trashrack and the orifice. It is much more likely that debris will hang up on either the upstream valve or trashrack. Checks of the intake structure and facilities should already be performed as part of the routine maintenance checks of the plant.

3. See description of plant operation - above.

4. See description of plant operation - above.

5. You indicated that you have coordinated with all appropriate state agencies and operation of the plant under this scenario does not otherwise affect previous agreements regarding water storage, bypass flow or maintenance of riparian vegetation.

6. I recommend periodic verification that the level in the orifice box corresponds to the level readout on the PLC display. This verification can be added as an additional item on the plant operators weekly maintenance log. If the level observed by the plant operator and measured level disagree more than .05 feet the level probe should be removed and recalibrated or repaired. It may not be possible to perform this check during periods of high bypass flow where the orifice box over tops. I also recommend an annual full span recalibration and verification level recording system performance.

Sincerely,
ROSS ENGINEERING

A handwritten signature in cursive script that reads "Robert W. Ross". The signature is written in black ink and is positioned below the typed name "ROSS ENGINEERING".

Robert W. Ross

RAVENSCROFT BYPASS
ORIFICE FLOWS AND
STORAGE USE TIMES

ORIFICE DIAMETER (IN)
NUMBER OF ORIFICES

11
4

ASSUMED STORAGE TOP FOOT (AF) 38
SECOND FOOT (AF) 26
LAST HALF FOOT (AF) 10

GENERAL INFORMATION	HEAD (FT)	Q (CFS)	Q (AF/MIN)	Q (AF/HR)	AVERAGE OUTFLOW (CFS)			TIME TO DROP	
					TURBINE FLOW (CFS)	TOP FOOT	SECOND FOOT	LAST 6" INFLOW (MIN)	LAST 6" @ 0 CFS INFLOW (MIN)
	1.5	15.538	0.0214	1.2841	34	60.90	57.71	55.03	132.0
	1.6	16.048	0.0221	1.3262	66	93.19	90.05	87.41	83.1
	1.7	16.542	0.0228	1.3670	100	127.19	124.05	121.41	59.8
	1.8	17.021	0.0234	1.4066	134	161.49	158.38	155.78	46.6
	1.9	17.488	0.0241	1.4452	166	193.78	190.71	188.15	38.6
	2	17.942	0.0247	1.4827	200	228.07	225.03	222.51	32.6
	2.1	18.385	0.0253	1.5193					
	2.2	18.818	0.0259	1.5551					
	2.3	19.241	0.0265	1.5901					
	2.4	19.655	0.0271	1.6243					
MINIMUM BYPASS	2.5	20.060	0.0276	1.6577					
	2.6	20.457	0.0282	1.6906					
	2.7	20.847	0.0287	1.7228					
	2.8	21.229	0.0292	1.7544					
	2.9	21.605	0.0298	1.7854					
	3	21.974	0.0303	1.8160					
	3.1	22.338	0.0308	1.8460					
	3.2	22.695	0.0313	1.8755					
	3.3	23.047	0.0317	1.9046					
	3.4	23.394	0.0322	1.9332					
	3.5	23.735	0.0327	1.9615					
	3.6	24.072	0.0331	1.9893					
	3.7	24.404	0.0336	2.0167					
	3.8	24.731	0.0341	2.0438					
	3.9	25.055	0.0345	2.0705					
	4	25.374	0.0349	2.0969					
	4.1	25.689	0.0354	2.1230					
	4.2	26.001	0.0358	2.1487					
	4.3	26.308	0.0362	2.1741					
	4.4	26.612	0.0366	2.1992					
	4.5	26.913	0.0371	2.2241					
	4.6	27.210	0.0375	2.2487					
	4.7	27.505	0.0379	2.2730					
	4.8	27.796	0.0383	2.2970					
	4.9	28.084	0.0387	2.3208					
APPROX. TOP	5	28.369	0.0391	2.3444					
	5.1	28.651	0.0395	2.3677					
	5.2	28.931	0.0398	2.3908					
	5.3	29.208	0.0402	2.4137					
	5.4	29.482	0.0406	2.4364					
	5.5	29.754	0.0410	2.4588					
	5.6	30.023	0.0413	2.4811					
	5.7	30.290	0.0417	2.5031					
	5.8	30.554	0.0421	2.5250					
	5.9	30.817	0.0424	2.5467					



ENGINEERING

CIVIL ENGINEERING, SURVEYING, PLANNING,
WATER RESOURCES, LAND DEVELOPMENT

2212 N. 20 th. St.
Boise, ID 83702
(208) 342-7751

1/6/95

Mr. Vernon F. Ravenscroft
Consulting Associates, Inc.
1843 Broadway Ave., Ste. 102
Boise, ID 83706

Dear Mr. Ravenscroft:

I am writing to provide you with some information for your responses to the six items under the heading Requested Actions in the letter from the Federal Energy Regulatory Commission which appears to be dated 12/20/94. I feel very strongly that the system proposed will meet the requirement of an assured minimum bypass and will, in fact actually improve the condition of downstream riparian areas during short term periods of very low flow by the buffering effect of the ponding. My comments are presented in the same order and numbered as they were listed in the FERC letter.

1. The generalized flow control system anticipated and described in the November 15 report has been refined in favor of an orifice type bypass control system. The orifice system will allow more precise control of bypass flows and will also allow better utilization of available generation flows. The outflow through the orifice system is much less sensitive to small fluctuations in water surface elevations and will allow the control automation of the power generation flows to be spread over a range of about 2.5 feet instead of the range of tenths or hundredths of a foot required by a weir system while assuring that adequate bypass flows will be provided and maintained at a more uniform level. The powerhouse turbines will be controlled directly from the instrumentation at the bypass control structures thus guaranteeing that bypass requirements will be controlling the system. The system will include automation for the turn on and turn off of all three units at the power house and will include an emergency shutdown to guarantee that the head on the orifices will be sufficient to provide the required bypass flows.

2. The automated bypass requirement is addressed, in part, in conjunction with item 1. To assure that icing or clogging of the existing bypass pipes doesn't interfere with the required bypass flows, the sensing devices that regulate generating flows will base control solely on real time bypass flow as sensed in the flow control structure. If inflow pipes and /or the trash racks in the bypass structures become sufficiently clogged the result will be a lower flow being sensed and a unit will shut down to avoid further water level drop in the control structure. If flow decreases further additional units will shut down until emergency shutdown occurs at a flow rate that still meets minimum requirements. At emergency shut down the operator will respond and clear the problem before bypass flow becomes minimal.

Fluctuating inflow will pose no problem because of the substantial pond storage above the control structures. The pond storage will serve as a very substantial buffer and will limit the rate of water surface level changes to less than 2 inches per hour under most flow conditions.

3. This provision requirement, as written, seems unduly burdensome; in the normal plant operation it is possible that all units may shut down solely to provide stipulated bypass flows. In this instance operation could resume only after a programmed time delay and at such time as the inflows have increased pond level to the point required to maintain the stipulated minimum bypass flows and provide water for generation . We feel that the requirement of manual restart would be reasonable if applied to emergency shut down and if that is the intent of this provision we have no problem with it.

4. Fluctuating inflows are buffered as mentioned in item 2 by the pond storage. The buffering effect does much to minimize the criticality of bypass control. In fact a total loss of inflow is not sensed by the control system and normal bypass is maintained as long as water is available in the impoundments above the critical level. When the pond level drops below the critical level all units have already shut down and all available pond storage is used to provide downstream

flow even though no flow is coming in. When inflow increases pond level will increase and will eventually return to a level adequate to meet stipulated bypass flow plus generation flow.

It is possible for a scenario to develop where there is flow coming into the pond areas in excess of minimum flows while outflows from the ponds will lag somewhat and outflow would be less than the required minimum bypass until the critical pond level is reached. The conditions required to develop this scenario are rare and we feel that the providing of downstream flows at or above the minimum bypass requirement much of the time that inflows are deficient will provide a much better and more consistent riparian environment than if the bypass flow became zero as soon as inflow reached zero. In such an instance the pond storage might provide flows that went from 20 cfs to 10 cfs and back to 20 cfs over a 24 hour period while the inflow might go from 20 cfs to 0 cfs to 30 cfs over the same time. In either case all the water available would be released but by utilizing the pond storage the downstream channel would not be subjected to drying up completely at the zero rate of inflow and would not immediately receive the full increase in inflow. The inflow would increase pond level until such time as bypass flow exceeds the minimum requirement plus a margin of safety; at that time generation could begin.

5. I am not familiar with the other terms, conditions or agreements that may be applicable in this section and I understand that you and Bob Ross of Ross Engineering will provide the bulk of the information required to respond to this item. I can add the following statements:

No modifications of downstream side channels or riparian areas is proposed. The installation of the metering orifice flow control system will have no adverse impact on downstream side channel flow patterns or riparian areas. The more uniform bypass flow rate is likely to provide some benefit to the riparian habitat.

6. I am not familiar enough with the overall operation of your project to contribute a great deal here. I would say that the flow control structures should not require any increase in the

frequency of inspecting outflow conditions and, with their reduced inflow velocity and incorporated trash racks, maintenance time and frequency may actually be somewhat reduced.

I hope you will find these explanations and comments helpful in your response. If you wish you may have the FERC people contact me directly with any questions they might have.

Very truly yours,

A handwritten signature in cursive script, reading "Donald J. Watts" followed by a stylized flourish.

Donald J. Watts, P.E., L.S.

ERNON RAVENSCROFT

Telephone 208 837-4802/4936
TUTTLE ROUTE — BLISS, IDAHO
83314

Boise Ph: 344-1487
1936 Priest Place
Boise, Idaho 83706

January 17, 1995

Idaho State Fish & Game Department
Jerome Regional Office
868 E. Main St.
Jerome, Idaho 83338

Attn: Mr. Carl Nellis

Dear Carl:

This letter is provided in summary of our several meetings and as my formal application for an amendment to the stipulations which the Idaho Fish and Game Department have provided to govern the fish and wildlife resource values at the Ravenscroft Hydro Project, F.E.R.C. 4055, Idaho.

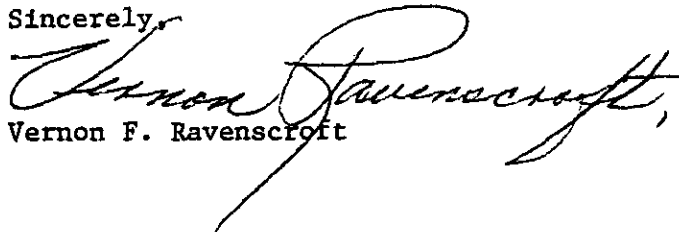
Starting with a field meeting last fall and followed by three or more meetings in your office we have evolved modifications in the existing stipulations which I believe are superior to the existing stipulations biologically, and will provide for the successful automated operation of project 4055.

Please accept this letter as my formal application to amend the project stipulations to provide:

1. A uniform year-round bypass flow of at least 15.14 c.f.s. for the entire bypass reach of project 4055.
2. The project operation to be governed by the priority release of sufficient water to meet or exceed the stipulated flow for the bypass reach.
3. The bypass flow to be measured and electronically recorded at the diversion site.
4. A new flow measurement structure (cipeletti weir or rated staff gauge to be installed at the generation site immediately above the point of spillway return flow.

I have appreciated your cooperative, constructive input to our efforts to modify and correct the operations at project 4055. I look forward to the prompt completion of our work.

Sincerely,


Vernon F. Ravenscroft

ERNON RAVENSCROFT

Telephone 208 837-4802 4936
TUTTLE ROUTE — BLISS, IDAHO
83314

Boise Ph: 344-1487
1936 Priest Pl.
Boise, Idaho 83706

January 16, 1995

Mr. Robert Cordell
Bennett Hills Resource Area Manager
Bureau of Land Management
Shoshone, Idaho 83352

Dear Bob:

This letter is provided as per our verbal agreements and understandings established at our January 13, 1995 meeting held in your office.

Please accept this letter as my formal application to amend the B.L.M. Special Use Permit which governs the current operation of F.E.R.C. hydro project number 4055-020 Idaho. The project operates as a sole proprietorship owned by Vernon F. and Harriett B. Ravenscroft. I respectfully ask your favorable approval of two amendments to said Special Use Permit, to wit:

1. Stipulated bypass flows shall be amended from the present 5 c.f.s. (July - March) and 80 c.f.s. (April - June) seasonal requirements to a single, all-year stipulation of 15.14 c.f.s. at any and all times in which project 4055 is generating.
2. The use for which the special use permit is granted shall be expanded to include the installation of a buried two-way communication wire along the south (river-side) canal bank.

As per our agreement from the referenced meeting at least three new provisions need also be added to the permit, to wit:

1. A cippelleti weir or equivalent rated staff gauge shall be installed in the bypass reach at a point just upstream of any inflow from the project spillway. This weir or gauge shall be clearly marked so that any authorized inspector can visually determine compliance with the 15.14 c.f.s. minimum flow requirement.
2. The automation of the generation at project 4055 shall be controlled from measurements recorded at the diversion site and shall be based upon first priority to the bypass flow. Generation shall not take place unless the required minimum bypass flow is first provided to the bypass reach.
3. The bypass flow shall be electronically recorded at mutually agreed ongoing intervals. This record shall indicate the volume of bypass flow and record whether or not project 4055 was in an operational or non-operational mode. These computer records shall be kept on file for a minimum of two years and shall be available for B.L.M. inspection upon request at any time within the required two-year period.

Explanation.

Project 4055 operates under an exemption from licensure issued by the Federal Energy Regulatory Commission. Article 2 of that exemption requires:

Bureau of Land Management
1/16/95
P. 2

"The construction, operation and maintenance of the exempt project must comply with any terms and conditions that any Federal or State fish and wildlife agencies have determined are appropriate to prevent loss of, or damage to, fish or wildlife resources or otherwise to carry out the purposes of the Fish and Wildlife Coordination Act, as specified in Exhibit E of the application for exemption from licensing or in the comments submitted in response to the notice of exemption application."

Project 4055 is situated at a river reach in which river management for irrigation purposes cause extreme flow fluctuations. This volatile flow pattern combined with acknowledged deficiencies in the design of the project 4055 have caused ongoing compliance problems for the project.

New engineering expertise has provided feasible corrections based upon the fundamental discipline that the project must be controlled by instrumentation situated at the diversion site and based upon the volume of bypass flow. In such a system a standardized year-round flow is desirable (but not essential) to minimize the size, number and design of the control structures.

Since there has been an ongoing conflict with senior downstream irrigation water rights, it is deemed desirable to establish a bypass flow that is large enough to also provide the minimum downstream water passage. As compared to the current seasonal stipulation, 5/80 c.f.s., the requested year-round 15.14 c.f.s. bypass requirement is approximately neutral economically. Considering the substantially higher summer, fall and winter flow (an average release in the range of 25 c.f.s. versus the present 5 c.f.s.) I submit that biologically the impact will be at least neutral and probably a strong positive.

The hydrologic records which I provided to you clearly indicate that flood flows are naturally present for a significant amount of the time. Five hundred (500) c.f.s., which is more than double the present plant capacity, is present an average of 14.03% of the time.

If there are questions, please call 344-1487 or 345-2670.

Sincerely,



Vernon F. Ravenscroft

37-7852 -78287
-7965
7865
FEDERAL ENERGY REGULATORY COMMISSION

WASHINGTON, D. C. 20426

Project No. 4055-020--Idaho
Ravenscroft Ranch Project
Vernon F. Ravenscroft

DEC 20 1994

Tim Luce *TL*

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

RECEIVED

DEC 27 1994

Department of Water Resources

Mr. Vernon F. Ravenscroft
Consulting Associates, Inc.
1843 Broadway, Suite 102
Boise, ID 83706

Dear Mr. Ravenscroft:

We received your report, dated November 15, 1994, and your supplement to that report, dated November 22, 1994. Your November 15 report provided your proposal for making modifications to the project in order to correct the project's minimum flow and operational compliance problems. The report requested approval of the proposed actions and also requested that you be allowed to start generation. The November 22 supplement transmitted your consultant's recommendations to you on the needed changes at the project.

Request to Restart Operation

The project is currently not generating because the Commission's letter of October 13, 1994 required you, pursuant to the September 2, 1994 Compliance Order, to cease project operation by October 19, 1994. The order indicated that you are not to resume project operation until you provide the Commission with evidence that changes have been implemented at the project that ensure that it can be operated in compliance with article 2, and the evidence has been approved by the Commission.

We currently cannot approve project operation because the information you have filed does not indicate that the project can, at this time, be operated in compliance with article 2.

Status of Exemptee's Efforts

Your November 15 report indicated that you plan to install a weir immediately below the diversion, with instrumentation that will allow the powerhouse to generate only while minimum flows are being passed. Your consultant's recommendations expanded on the plan you described in your November 15 report. He described the use of a comfortable safety margin in the bypass flow that would control the powerhouse. He also indicated a failure of the bypass level recording system would cause the powerhouse to shut down, as an additional measure of protection for bypass flows.

However, your consultant noted that the water level at the powerhouse does not effectively control the bypass flow. Similarly, we noted in our letter of October 13, 1994 that you should consider automation of the diversion structure in order to prevent the diversion of water to the powerhouse when there is not sufficient inflow to satisfy both the minimum flow requirement and generation demand.

The measures included in your report dated November 15, 1994 may not protect flows in the bypass reach when decreases in inflow approach the required flow. Water may continue to flow into the power canal after the powerhouse is turned off. In addition, it is unclear whether, at certain times, the powerhouse bypass valve will affect minimum flow maintenance in the bypass reach.

Requested Actions

After reviewing your November 15 report and your consultant's November 22 supplement, we conclude that you need to file a more detailed operation plan which includes the following elements.

1. The weir and gage you described in your November 15 report will need to record the flow in the bypass reach and the status of generation at the powerhouse. The powerhouse must be controlled by the gage's reading so that the powerhouse is shut off if the flow decreases to a predetermined level greater than that corresponding to the minimum flow. The powerhouse bypass valve must operate in a manner that precludes endangerment of downstream water rights.
2. The installation of an automated bypass control system that ensures minimum flow, or inflow, release to the bypass reach under foreseeable conditions. Foreseeable conditions include, for example, fluctuation of inflow and clogging of the existing bypass tubes with debris or icing.
3. A provision whereby, after the project has automatically shut off due to low flows, it can only be manually restarted from the project site.
4. Provisions describing operating scenarios illustrating how the project will respond to fluctuating inflows while maintaining minimum flows, and how the installed equipment will release all inflow to the bypass reach should inflow drop below the minimum flows that you are required to release.
5. A provision indicating that the planned alterations will not endanger compliance with the other terms and conditions of article 2. For example, agreements regarding water storage, side

channel flow, and maintenance of riparian vegetation must be observed.

6. A plan and schedule for regular inspection and maintenance for flow gaging, flow recording, and flow maintenance equipment.

Any of these elements may be waived by the Commission if sufficient evidence is offered in the plan that indicates that the element is unnecessary.

It may be possible to receive Commission approval to resume generation before the changes identified in an approved operation plan are completed. Given the current facility arrangement, the only operational modification that would ensure that the minimum bypass flows are maintained would be to increase the flow released to the bypass reach. This margin must be large enough to ensure the continuous release of the required minimum flows. These interim flows, or inflow to the project, will need to be released until the changes approved in the operation plan are complete and documented with the Commission. If you chose this interim option, you must file a proposal that clearly identifies the quantity of additional flows you propose, as well as calculations sufficient to indicate that the proposed flow would, given varying inflow and operational constraints, ensure that the minimum is continuously maintained.

We request that you file monthly status reports with the Commission so that we may follow your progress in designing and implementing changes that will ensure project compliance. The first report is due February 1, 1995, and subsequent reports will be due on the first day of the months that follow.

Please note that, in addition to approval of the revised operation plan, you may also need approval from the appropriate state and federal agencies before undertaking any construction. Any construction should also be coordinated through the Commission's Portland Regional Office.

Additional filings made with the Commission should include one original and eight copies, and should be filed with:

The Secretary
Federal Energy Regulatory Commission
Mail Code: DPCA, HL-21.1
825 N. Capitol Street, N.E.
Washington, D.C. 20426

If you have any questions, contact Pete Yarrington at (202) 219-2939. If you request, we will schedule a meeting in Washington, D.C. with you or your representative.

Sincerely,



J. Mark Robinson
Director, Division of Project
Compliance and Administration

cc: Jerry M. Conley, Director
Idaho Department of Fish and Game
600 S. Walnut
Boise, ID 83707-0025

Mr. Norman C. Young
Idaho Department of Water Resources
1301 N. Orchard Street
Statehouse Mail
Boise, ID 83720-9000

U.S. Department of Interior
Bureau of Land Management
P.O. Box 2B
Shoshone, ID 83352

MEMORANDUM

TO: FILE 37-7857, -7865, -7922, -8287

FROM: DOUGLAS JONES

DATE: 27-Feb-1992

RE: MULTI-AGENCY FIELD REVIEW OF PROJECT

ON 2-24-92 I VISITED THE "RIVER RANCH" POWER PROJECT INVOLVING THE ABOVE REFERENCED WATER RIGHT PERMITS AND PROTESTED APP 37-8287. ACCOMPANYING ME WERE BRIAN RAVENSCROFT; MIKE MCMASTERS, GREG MISBACH, TIM LITKE (DEQ); LEE PETERSON (WM-37); DICK ONEIDA (BWCC); BRIAN MILLER (SCS); AND COUNTY COMMISSIONER TUPPER. ABSENT WERE FISH & GAME AND BLM REPRESENTATIVES.

PARTICIPANTS MET AT TUPPER, A CROSSROADS EAST OF THE INTERSTATE, WHERE WE WERE BRIEFED ON RAVENSCROFT'S PLANS. IN SUMMARY, RAVENSCROFT WANTS TO INCREASE THE HEIGHT OF THE ENTIRE SYSTEM BY ABOUT 1 FOOT, PLUS ADD TWO OR THREE 5-10 ACRE BY 1-15 FOOT DEEP PONDS TO THE CANAL SYSTEM. REASONS FOR THE PLAN, AS STATED BY RAVENSCROFT, INCLUDE IMPROVED SEDIMENT SETTLING, IMPROVED WATER FLOW MANAGEMENT, AND IMPROVED WILDLIFE AND FISHERY OPPORTUNITIES. RAVENSCROFT HAS SAID THAT THERE IS A LARGE AMOUNT OF SILT THAT SETTLES OUT IN THE POND(S). A LARGE WATER FOWL POPULATION WAS OBSERVED TO BE USING THE SYSTEM AND A NEW WARM WATER FISHERY HAS DEVELOPED. WATER MANAGEMENT WILL BE IMPROVED BY ENLARGEMENT OF STORAGE BECAUSE FLOWS PRESENTLY FLUCTUATE SEASONALLY AND DAILY LEADING TO GENERATOR SHUTOFF.

NUMEROUS COMPLAINTS TO THE WATERMASTER AND CANAL COMPANY FROM DOWNSTREAM USERS ASSERT THAT OPERATION OF THE POWER PLANT CAUSES EXTREME FLOW FLUCTUATIONS. APPARENTLY, WHEN THE GENERATORS GO OFF-LINE THE MILE LONG POND/CANAL SYSTEM HAS TO BACKFILL BEFORE SPILLING. USERS ALSO COMPLAIN THAT SEEPAGE LOSSES IN THE CANAL SYSTEM ARE LARGE AND INJURE SENIOR RIGHTS.

RESEARCH OF THE WATER RIGHTS INDICATES THAT 37-7857, FILED ON 9-25-80, DID NOT MENTION PONDS. RIGHT 37-7865, FILED 11-4-80, DID NOT MENTION PONDING EITHER. RIGHT 37-7922, FILED 7-10-81, INDICATED A 10 ACRE BY 15' MAX DEPTH SETTLING POND, THE DIVERSION WAS NOT TO BE A DAM IN THE RIVER. ON 11-19-1982 AMENDMENTS WERE FILED TO MOVE THE CANAL AND POWER FACILITIES TO THE NORTH SIDE OF THE MALAD RIVER. THE AMENDMENT DID NOT INDICATE A RIVER DAM, PONDING OR STORAGE. TOTAL GENERATING CAPACITY WAS SAID IN 37-7922 TO BE 600 KW. PROOF OF BENEFICIAL USE WAS FILED TIMELY, BUT EXAMINATION FEE INFORMATION SHEETS WERE NOT. ULTIMATELY INFORMATION WAS FILED AND AN INDEPENDENT CERTIFIED EXAMINER, CECIL THOMAS, DID AN EXAM (6-86). PRIORITY DATES

PAGE 2
2-27 MEMO
37-7857, -7865, -7922

FOR THE FILINGS WERE ADVANCED ACCORDINGLY. APPLICATION 37-8287 PROPOSES A ROCK FILL DAM ACROSS THE MALAD AND A GENERATING CAPACITY OF 1060 KW. APPLICATION 37-8287 HAS BEEN PROTESTED AND INITIAL ATTEMPTS TO BRING IT TO HEARING HAVE FAILED.

DURING THE FIELD TOUR I OBSERVED SEVERAL IRREGULARITIES AND DEVIATIONS FROM THE CONDITIONED PERMITS. RAVENSCROFT HAS INSTALLED ALL BUT THE TURBINE AND GENERATOR ON A NEW FOURTH GENERATION SYSTEM - WHICH APPARENTLY IS NOT COVERED BY IDWR PERMIT, BUT POSSIBLY APP. 37-08287. RAVENSCROFT DID NOT SAY WHETHER HE INTENDED TO RUN ALL THE GENERATORS AT ONCE OR NOT. THERE WERE STATEMENTS MADE DURING THE TRIP THAT THEY HAVE A "LICENSE" TO DO IT - PRESUMABLY A F.E.R.C. LICENSE. AT THE HEADGATE THERE IS A VERY LARGE POND FORMED BY DAMMING THE MALAD RIVER WITH A ROCK OVERFLOW DAM. THIS POND MAY BE 20+ ACRES, BASED ON NAPP AIRPHOTO COVERAGE FROM 1988, AND INUNDATES A SAND AND GRAVEL DEPOSIT. THE "HEADGATE" IS A RADIAL GATE STRUCTURE, FULLY SUBMERGED, AND WITHOUT ADEQUATE MEASURING CAPABILITY. THIS IS IN VIOLATION OF A CONDITION OF APPROVAL ON THE PERMIT. BASED ON THE STATEMENTS OF PETERSON AND ONEIDA THERE APPEARS TO HAVE BEEN INTERFERENCE IN THE DELIVERY OF SENIOR RIGHTS DUE TO THE WAY THE SYSTEM WAS BUILT AND IS OPERATED. INTERFERENCE WAS NOT OBSERVED DURING THE REVIEW BECAUSE THERE WERE NO IRRIGATION DELIVERIES BEING MADE. INTERFERENCE WITH THE DELIVERY OF WATER TO IRRIGATION OR OTHER BENEFICIAL USES IS A VIOLATION OF PERMIT CONDITIONS.

AN OVERFLOW SPILLWAY AT THE FOREBAY WAS OBSERVED TO BE IN POOR CONDITION. THE CONCRETE WALL IS SERIOUSLY TIPPED AND CRACKED. A DAM APPURTENANCE IN THIS CONDITION WOULD NECESSITATE AN IMMEDIATE ORDER FROM THE DAM SAFETY SECTION TO REPAIR IT. THERE IS A HIGH PROBABILITY THAT THE SPILLWAY WALL WILL FAIL, AT LEAST PARTIALLY, AND THAT SEDIMENT AND OTHER DEBRIS WILL BE WASHED INTO THE MALAD RIVER. I TOLD BRIAN RAVENSCROFT THAT THE WALL NEEDS REPAIR AND HE SAID THEY WEREN'T PLANNING TO DO IT ANY TIME SOON. BRIAN SAID THAT THEY PLAN TO ALTER THE FOREBAY IN A FEW YEARS AND ENLARGE IT SIGNIFICANTLY, THEY WOULD DO SOMETHING WITH THE WALL THEN. IN MY OPINION THAT IS TOO LONG TO LEAVE THE WALL IN THAT CONDITION.

ON 2-27-92 I SPOKE WITH BRIAN RAVENSCROFT ABOUT THE WATER RIGHT RESEARCH AND INFORMED HIM THAT THE THREE PERMITS WERE APPROVED FOR UP TO 200 CFS, THAT EXAMINATIONS WERE DONE ON THEM AND THAT ADDITIONAL GENERATING CAPACITY IS NOT AUTHORIZED. BRIAN TOLD ME THAT THE SOUTH GENERATOR HAS A FIXED RATE CAPACITY (FRC) TURBINE OF 35 CFS, THE MIDDLE GENERATOR HAS A VARIABLE RATE CAPACITY (VRC) TURBINE OF 80-140 CFS, AND THE NORTH GENERATOR HAS A FRC TURBINE OF 63 CFS. AS STATED ABOVE, A NEW PENSTOCK AND GENERATOR HOUSING HAS BEEN INSTALLED AND IT IS INTENDED THAT THE VRC TURBINE BE INSTALLED THERE WITH A NEW GENERATOR. A NEW FRC 110 CFS TURBINE IS TO BE INSTALLED IN THE MIDDLE HOUSING WITH THE OLD GENERATOR AFFIXED.

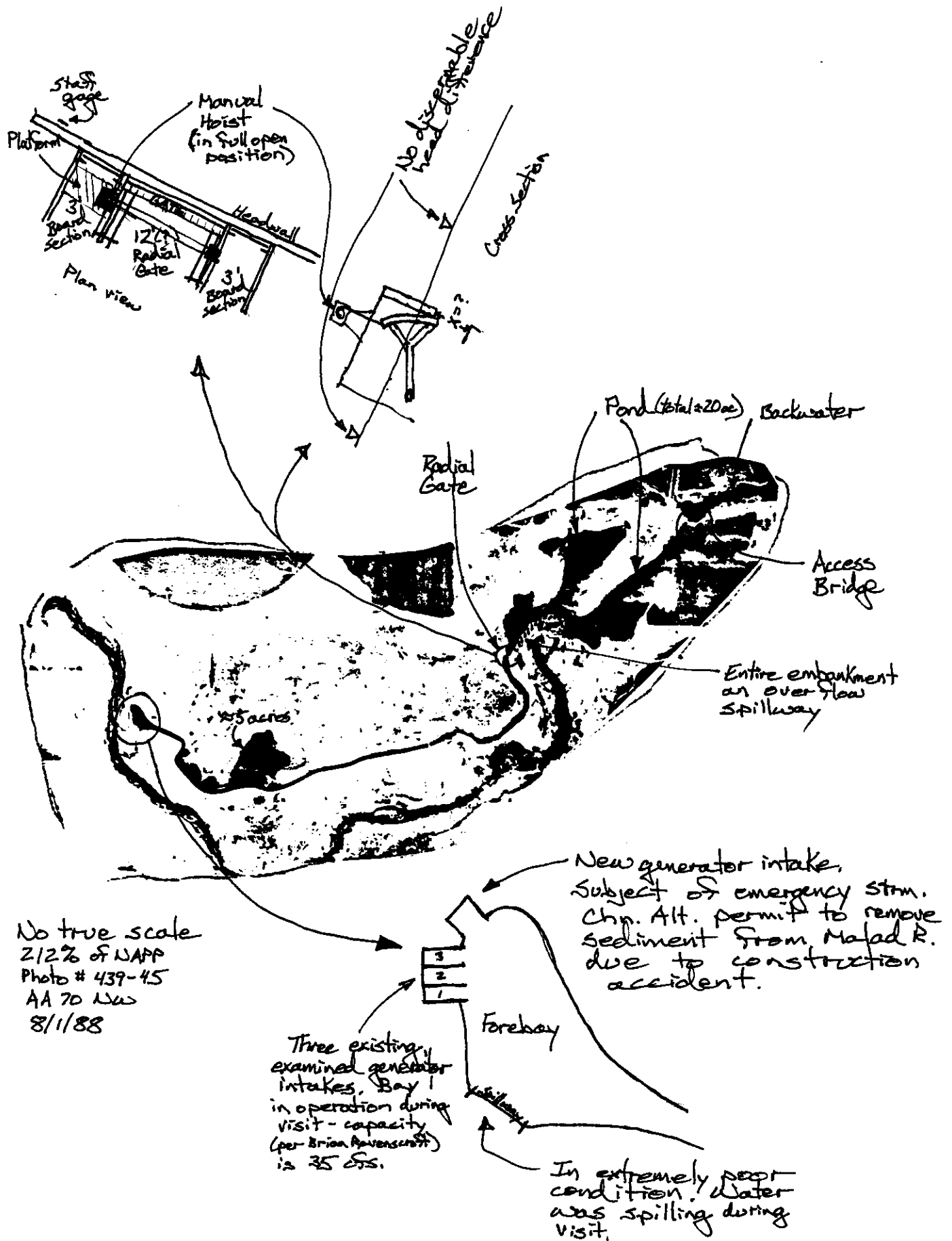
PAGE 3
2-27 MEMO
37-7857, -7865, -7922

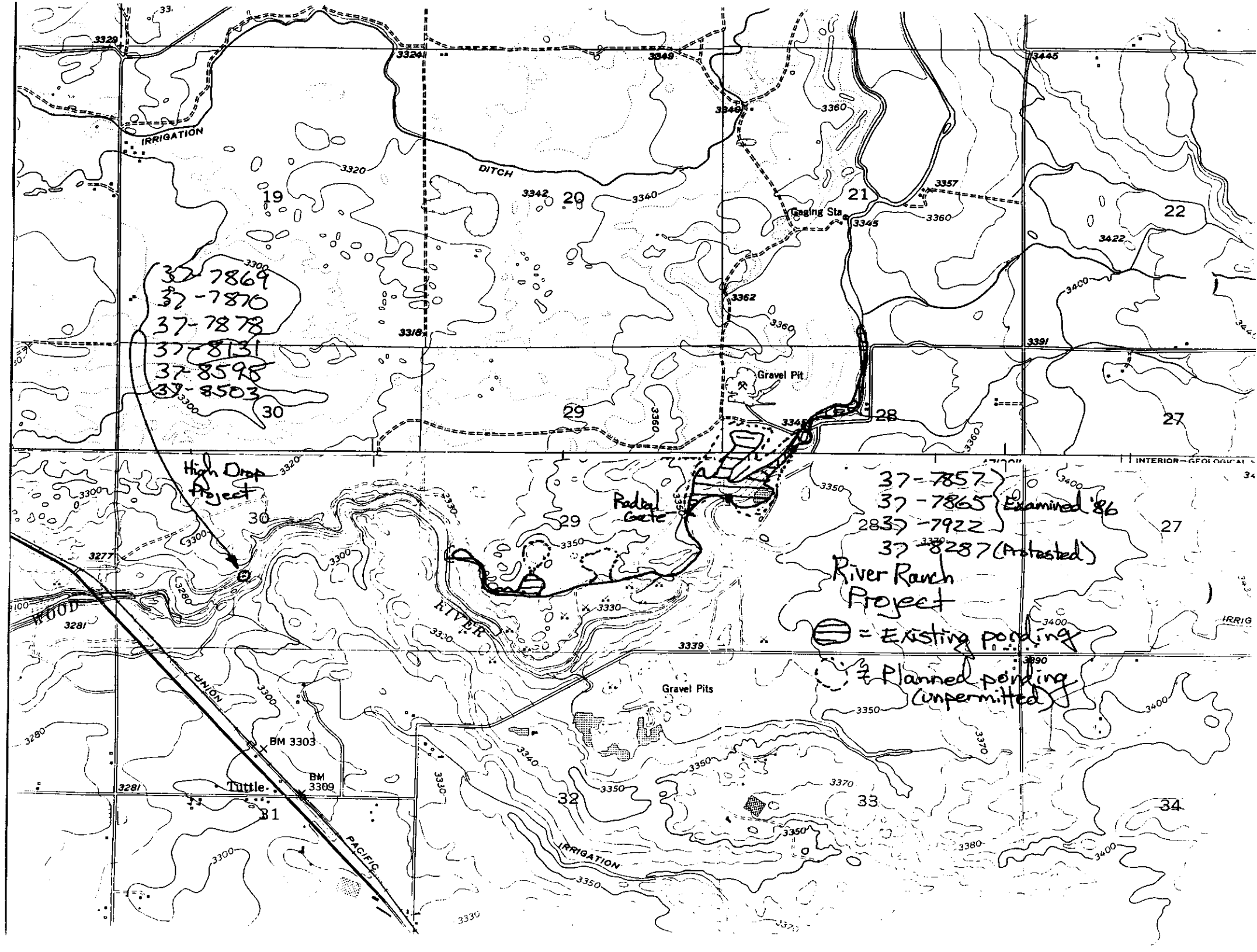
DURING THE FIELD VISIT RAVENSCROFT SAID THAT HE WANTS TO REGULATE THE DIVERSION RATES AT THE TURBINES WITH A MALAD RIVER MEASUREMENT JUST ABOVE THE TAILRACE TO ESTABLISH BYPASS COMPLIANCE. RAVENSCROFT'S PROPOSAL IS LUDICROUS BECAUSE SEEPAGE LOSSES THROUGH THE CANAL AND PONDS IS NOT MEASURED AND IS PROBABLY VERY SIGNIFICANT THROUGH GRAVEL AND SAND DEPOSITS, AS WELL AS THROUGH FRACTURED BASALT FLOWS AND BLOW-OUTS, AND IS LOST FROM THE RIVER.

IN MY OPINION, IDWR SHOULD STRIVE TO ACHIEVE THE FOLLOWING GOALS:

- 1) CAUSE CHANGES AT THE UPSTREAM END TO DECREASE THE POND SIZE TO MINIMIZE SEEPAGE LOSS NOT ACCOUNTED AGAINST PERMITTED DIVERSION RATE.
- 2) CHANGE THE HEADGATE STRUCTURE OR TAKE OTHER STEPS TO DEVELOP A PROPER MEASURING DEVICE AT THE DIVERSION, E.G. A RATED CANAL SECTION WITH A GAGING STATION DOWNSTREAM OF THE RADIAL GATE.
- 3) NOT TO ALLOW INSTALLATION OF A FOURTH GENERATING UNIT WITHOUT WATER RIGHT RESOLUTION.
- 4) REPAIR THE EXISTING SPILLWAY AT THE FOREBAY.
- 5) PROVIDE CAPABILITY TO PREVENT FLOW FLUCTUATIONS IN THE EVENT OF GENERATOR SHUTDOWN, E.G. HAVE MIDDLE GENERATOR BAY OF ORIGINAL INTAKE PASS WATER AUTOMATICALLY WHEN INTERRUPTIONS OCCUR.
- 6) FORBID DEVELOPMENT OF ADDITIONAL POND(S) OR RAISING THE ROCK DAM ELEVATION.

A LETTER NEEDS TO BE WRITTEN TO VERN RAVENSCROFT AS SOON AS POSSIBLE TO PREVENT ADDITIONAL DEVELOPMENT AND CHANGES TO THE SYSTEM. LICENSING MUST NOT HAPPEN UNTIL THE CONDITIONS OF APPROVAL ON THE PERMITS ARE MET. THE WATERMASTER HAS REQUESTED, AT LEAST VERBALLY, DIRECTION ON HOW TO MANAGE THE DELIVERY OF THIS RIGHT IN LIGHT OF ABSENCE OF MEASURING DEVICES, ETC.





37-7869
37-7870
37-7878
37-8131
37-8598
37-8503

37-7857
37-7865 Examined '86
2837-7922
37-8287 (Archived)
River Ranch Project

⊖ = Existing ponding
⊕ = Planned ponding (unpermitted)



Consulting Associates, Incorporated

BOISE OFFICE -
VERNON RAVENSCROFT
HELEN CHENOWETH

PHONE (208) 345-2670
1843 BROADWAY, SUITE 102
BOISE, IDAHO 83706

September 18, 1991

RECEIVED
SEP 20 1991

J. Mark Robinson, Director
Division of Project Compliance & Administration
FEDERAL ENERGY REGULATORY COMMISSION
Mail Code DPCA, HL-21.1
825 N. Capital Street, N.E.
Washington, D.C. 20426

Department of Water Resources

Reference: Project 4055

Your letter received July 23, 1991 concerning By-pass and inflow gaging system. Design and administrative problems attendant thereto.

Dear Mr. Robinson:

This letter will provide additional material in compliance with the above referenced correspondence from your office.

I have previously provided to you and to the germane agencies a recalibration of the mid-reach gaging station. That corrected calibration indicated changes which clarified the flows in the range of 80 C.F.S. and greatly reduced the discrepancies which were known to exist in the original tables.

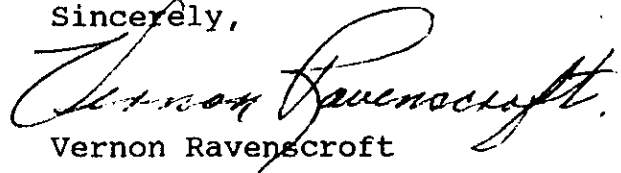
There is an official U.S.G.S. gaging station (#13152500) approximately one (1) mile upstream above the project 4055 diversion point. That station is situated on a very stable section of the river. The station is recalibrated on a routine schedule. The instant flow values can be determined by anyone who has possession of the conversion table. Spot readings are available daily from the local ditch rider and the mean average daily values are available monthly and published annually by the Idaho State U.S.G.S. office. There is no intervening diversion between this gage and the project 4055 diversion. There are three minor irrigation waste water inflows between the gage and the project 4055 diversion. These inflows (in combination) vary from zero to approximately 6 C.F.S. For project 4055 scheduling purposes, I have instructed the project operators to use the recorded inflow at the gage and to disregard any minor inflow from irrigation waste water sources. I respectfully petition that this gage, this policy, and this procedure be accepted by all germane agencies. The daily mean flow summary (April, May and June to the 19th) for the current year (1991) is attached as Exhibit I to this letter.

September 18, 1991

Engineer Carl Myers made a special inspection of the project. His report (attached - Exhibit II) is self-explanatory. The facility improvements, the changes of procedure and the time schedules which he suggests are acceptable to the project and will be implemented.

In addition to the Fish and Wildlife agencies and the B.L.M., this report is also being routed to the Wood River Watermaster and to the Idaho Water Resources Department. These two entities are responsible for the administration of Idaho Water law. They need to be informed and provided an opportunity to intervene on any water administrative matters. Unfortunately, they were not involved in the decisions which established the original stipulations for project 4055. As a result the project, on occasion, finds itself between two authorities, one of which says yes and the other says no. Hopefully that awkward position can be minimized by involving the state officers at this time.

Sincerely,

A handwritten signature in cursive script, appearing to read "Vernon Ravenscroft".

Vernon Ravenscroft

enclosures

VR/cg

CERTIFICATE OF MAILING

I hereby certify that on September 18th, 1991 I have mailed true and correct copies of the attached letter with two exhibits all pertaining to Project 4055 and addressed to J. Mark Robinson of the Federal Energy Regulatory Commission, to the following:

J. Mark Robinson, Director
Div. of Project Compliance
& Administration
FEDERAL ENERGY REGULATORY COMMISSION
Mail Code DPCA, HL-21.1
825 N. Capital Street, N.E.
Washington, D.C. 20426

(Original + 7 copies)

Mr. Robert Grieve
FEDERAL ENERGY REGULATORY COMMISSION
Mail Code DPCA, HL-21.1
825 N. Capital Street, N.E.
Washington, D.C. 20426

Will Reid
Idaho Dept. of Fish & Game
Statehouse Mail
Boise, Idaho 83720

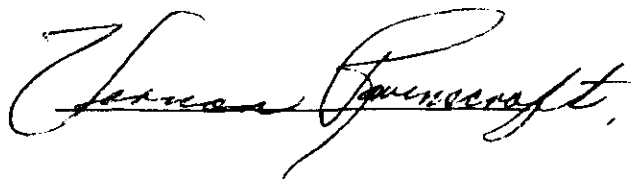
Region 4 Supervisor
Idaho Dept. of Fish & Game
P.O. Box 428
Jerome, Idaho 83338

Robert Cordell
Bureau of Land Management
P.O. Box 2B
Shoshone, Idaho 83352

Jim Esch
U.S. Fish & Wildlife Service
4696 Overland Rd., Room 576
Boise, Idaho 83705

Lee Peterson, Watermaster
WATER DISTRICT NO. 37 & 37M
P.O. Box T
Shoshone, Idaho 83352

Idaho Dept. of Water Resources
Statehouse Mail
Boise, Idaho 83720



[illegible]

RECEIVED SEP 17 1991

EXHIBIT II

MYERS ENGINEERING COMPANY, P.A.
Consulting Engineers

750 Warm Springs Avenue
Boise, Idaho 83712
Telephone: (208) 336-1425
Fax # 208-342-5245

September 17, 1991

Mr. Vern Ravenscroft
1843 Broadway Avenue
Boise, ID 83706

Re: Tuttle Project - Bypass flows

Dear Vern:

After our visit to the Tuttle Project on August 30, 1991, and a review of the water control system, I have the following comments and recommendations.

At the present time the project is required to bypass 80 cfs into the Malad River during the months of April through June, and 5 cfs during July through March. This bypass will be increased to 20 cfs when the project enlargement now underway is completed. Diversion into the power canal is by means of a low rock and earth fill dam across the Malad River, so constructed that frequent overtapping by flood water does not seriously damage the structure. There is no gated outlet to the river. Minor seepage occurring in many places along the length of the dam serves to create and maintain significant areas of wetland habitat in contiguous overflow channels and riparian zones that otherwise would be dry at low river stages.

The power canal, an open, low gradient channel, is fed by a gated headworks from the pond created by the diversion dam. Water is bypassed through the dam, for prior downstream irrigation rights and stream maintenance between the diversion and the tailrace of the power plant by means of 4 ungated culvert pipes installed in the dam. There are 2-15" pipes, 1-24", and 1-30". Flow through these pipes is determined by the water level in the pond behind the dam. The invert elevation of these pipes is approximately equal to the operating elevation of the water in the forebay of the power plant at the downstream end of the canal.

The suggestion has been made that bypassed water could be better controlled, especially at the 80 cfs level, by a new structure inserted into the existing dam, and equipped with automatic gates. Technically this might be possible. Practically, it would be a mistake, both economically and environmentally. This project, in operation for several years, has created and stabilized a very substantial enhancement of the desert environment that existed before the project was built. There are now many acres of open water, in ponds along the canal route and behind the diversion dam, including the canal itself, all bordered by well-established zones of riparian vegetation. The ponds provide aquatic and riparian habitat and recreational fishing that never before existed.

Installation of a new bypass structure now would require removal of part of the existing dam, draining the pond behind it, shutdown of the power plant during construction, with a consequent drawdown of the canal and all its dependent ponds. This would have a negative impact on fish, wildlife, recreation and other environmental values that on a new project would be vigorously challenged by all resource agencies. Further, automatic bypass control would be accompanied by a noticeable time lag before this intercepted water could reach the tailrace where it had been before interception, with consequent fluctuations of downstream irrigation supplies. This would be a ramping of flow that could be damaging to downstream irrigators and contrary to the provisions of Idaho Water law.

The use of ungated pipes to pass and control water flow through an embankment is neither unique nor new. Water flow is controlled by the height of water over the pipes and does not depend on mechanical/electrical devices which can fail at crucial times. This is a decided advantage. The pipes cannot however be used alone to maintain a predetermined flow regardless of the water depth over the pipes. This is apparently the condition that generated the suggestion for a new automatically controlled bypass structure. It is my opinion that this would create more problems than it solves, for the following reasons:

- 1) Ramping rates would be increased.
- 2) Failure of the controls could leave the gates fully closed and thus dry up the bypassed reach. Conversely, failure with the gates at full open could deprive the power plant of its legal water rights.
- 3) There would be severe negative environmental impacts during construction, and some permanent damage from disruption of the established enhancements.

- 4) Cost of a new structure would seriously damage the economics of the project.
- 5) The ungated bypass pipes and the diversion pond provide automatic damping of fluctuating stream flows of low volume but high rates, a characteristic of the Malad River.

The objective of providing bypass facilities at any run-of-river hydroelectric project is to maintain adequate instream flows in the bypassed reach. Determining the proper volume of such flows is not an exact or simple procedure; fishery science, hydraulics, professional judgment, legalities, and negotiation are all involved. There are also many options to achieve the desired results. One of the simplest and most fail-safe, is use of ungated pipes through a diversion structure, that are not subject to mechanical failure or operating errors. Discharge through the pipes responds to stream flow and the consequent depth of water this flow creates over the pipes. Also, the depth of water over the pipes can be adjusted by controlling the hydraulic capacity of the turbines at the power plant. This in turn will regulate the flow and hydraulic gradient of the supply conduit - in this case an open canal. This is accomplished on this project by a skimming weir spillway which limits the water surface elevation of the forebay, which in turn determines the flow through the turbines. Due to the low gradient of the power canal, changes in the elevation of the weir would be reflected quickly at the diversion pond. It appears that an increase in the height of the existing weir blade of 0.83 feet (say 1.0 foot) would guarantee at least 80 cfs through the pipes now installed through the diversion dam. I recommend this be done and operated through at least one season before further consideration be given to constructing a new bypass structure.

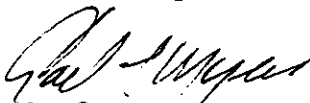
Bypassed flows are now measured by a staff gage located about midway on the bypassed reach. The river section has been rated so that gage readings can be converted to cfs. Given the regulating affect of the ungated pipes through the diversion dam, and the damping affect of the ponding above the dam, staff gage readings should give a reasonably accurate indication of the bypassed flow provided they are re-rated at reasonable intervals. It is my understanding that this referenced section was re-rated in June of this year by a well known and qualified hydrologist, Dr. Charles Brockway from the University of Idaho experimental station in Kimberly, Idaho.

I do not see any merit in attempting to automate any of the current facilities or operating procedures on this project. Raising the height of the skimming weir as discussed above will help insure against drastic reductions in bypassed flows. It does not seem rational nor practical to risk damage to the established environmental benefits resulting from the project by attempting to impose instantaneous responses to water control.

I therefore recommend to all parties:

1. That the staff gage on the diversion headgate be moved to the up river side of that structure. This would provide a new reference to determine pond level in relation to the discharge pipes. This action to be taken with the advent of low water in mid-October 1991.
2. That the project record the pond level at least once each day and correlate that level with the mid-section gage at least once each week until winter ice renders that action impractical.
3. That the project make the water records and the reconciliation with the mid-stream gage available upon request to both BLM and Idaho Fish & Game authorities.
4. That the project rebuild the skimmer weir and canal banks so as to have an additional one foot (1.0 foot) of head above the bypass tubes on or before April 15, 1992.
5. That all interested parties participate in an on-site meeting on or before June 15, 1992 to determine the success of the improvements and the need and/or time frame for automating the gage on the upstream face of the diversion headgate. Any self-recording gage at any other site would be difficult to maintain. Below the dam and at the power house flood flows would frequently wipe out such a structure.

Sincerely,



Carl L. Myers, P.E.

RECEIVED

JUL 20 1987

STATE OF IDAHO

DEPARTMENT OF WATER RESOURCES

Department of Water Resources

BENEFICIAL USE FIELD REPORT

RECEIVED

MAY 20 1987

Department of Water Resources

A. GENERAL INFORMATION

1. Owner: Vern Ravenscroft (Prudential Federal St) Permit No. 377865
Current Address: 1843 Broadway, Suite 102, Boise, Idaho 83706 Phone No. (208) 345 2670
2. Accompanied by: Cecil A Thomas EXAM. DATE: Sept. 24, 1986
Address: 3775 N Locus Grove Meridian, ID. 83442 Phone No. (208) 888-3087
Relationship to Permit Holder: Consulting Engineer
3. Source: Big Wood (Malad) R. tributary to Snake River

B. OVERLAP REVIEW

1. Other water rights with same place of use: 377857, 377922
☒ Copies Attached
2. Other water rights with same point of diversion: 377857, 377922
☒ 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 ☐ Aerial Photo Attached
Showing location(s) of point(s) of diversion and (required for irrigation of 10 acres or more).
place(s) of use (required).
☐ Photo of Diversion and System Attached
(required for all but single household domestic groundwater, and stockwater).

System Description (continued)

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

The system consists of a canal 1.3 miles long in earth and rock on the right (north) bank of Big Wood River, a diversion structure of concrete and steel, a forebay formed by a steel and concrete dam from which 3 penstocks divert to 3 turbines which actuate 3 generators. Name plate flow for #2 is 110 cfs and name plate output for #2 is 394 KW. Head from forebay to tailrace at normal output is 46 feet. See generator 2 and other features on figure 2A and 2B

☐ See Remarks on page 4 for continuation

Generator Well or Diversion Identification No.*	Turbine Make	KW	Motor Serial No.	Pump Make	Turbine Pump Serial No. Discharge Size
(2)	Ingersoll Rand	394	40 WTA	Westinghouse	110 cfs
Note - 1 of 3 generators served by the same canal					

*Code to correspond with No. on map and aerial photo figure 2B.

5. Point(s) of Diversion:

Ident. No.	Gov't. Lot	1/4	1/4	1/4	Sec.	Twp.	Rge.	County	Method of Determination/Remarks
		SW	SW	NW	28	6S	14E	Gooding	7 1/2 minute USGS Tuttle Quad

6. Place(s) of Use: Power Plant

Indicate Method of Determination ^{7 1/2 minute USGS} Tuttle Quad

Twp.	Rge.	Sec.	~~NE 1/4~~				NW 1/4				SW 1/4				SE 1/4				Totals
			1/4	1/4	1/4														
6S	14E	29	SW	NW	SW														

Do not use this space

Do not use this space

D. FLOW MEASUREMENTS

☒ Additional Data Sheets Attached

1.

Measurement ~~Equipment~~ ^{by}	Type	Make	~~Model~~ No.	Serial No.	Size	Calib. Date
R. Newby	type AA	Price	on 8' rod			
C. Thomas	"	"	on 30 C weight			

2. Measurements:

Spin tests and maintenance adequate.
7 current meter measurements made from the measuring bridge at site shown on figure 3 using type AA current meters suspended on an 8' rod or a 30C lead weight, measuring depths and velocities at 0.2 and 0.8 depths at near 25 sections, taking widths from a tape as recommended by U.S. Geological Survey. Flows are for all 3 water rights served by this diversion.

E. FLOW CALCULATIONS

☐ Additional Computation Sheets Attached

- Measured Method: Results of 7 measurements shown on figure 3 plot on a curve except for minor shifting. Measurement # 7 shows effects of raising the level of the spillway at power plant. Continuing measurements will be needed to determine discharge from staff gage readings at diversion. See figure 3.
- Alternate Method for Checking Purposes:

Turbine

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:

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

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

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

2. Volume Calculations for Other Uses: Assuming 130 cfs is available for power use,

volume would be $130 \times 365 \times 1.9835 = 94,120$ acre feet per year.

*Composite efficiency of system 9/24/86:
Meas'd discharge through 3 turbines = 287 - 52 spill = 235 cfs
Head = 46 ft; theoretical KW for 1 cfs = 3.89 KW; for 235 cfs = 912 KW
Meas'd. output at meter = 695 KW; Efficiency = 695/912 = 76%*

0.76 x 100 = 76%

H. REMARKS AND OVERLAP REVIEW ANALYSIS

Discharge as measured at measuring bridge is the total of the flow for water rights 377865, 377922, and 377857.

I. RECOMMENDATIONS

1. Recommended Amounts

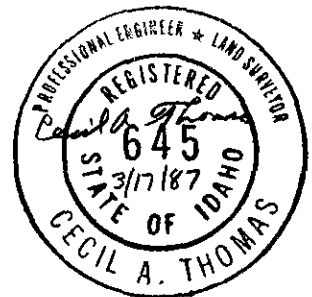
Beneficial Use	Period of Use		Rate of Diversion Q (cfs)	Annual Volume V (afa)
	From	To		
130 cfs	Oct. 1	Sept. 30	130	94,120 when available.
Totals:				

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 Cecilia A. Thomas
Signature Cecil A. Thomas
Certification Date March 18, 1987
Field Report Preparation Date Sept. 24, 1986

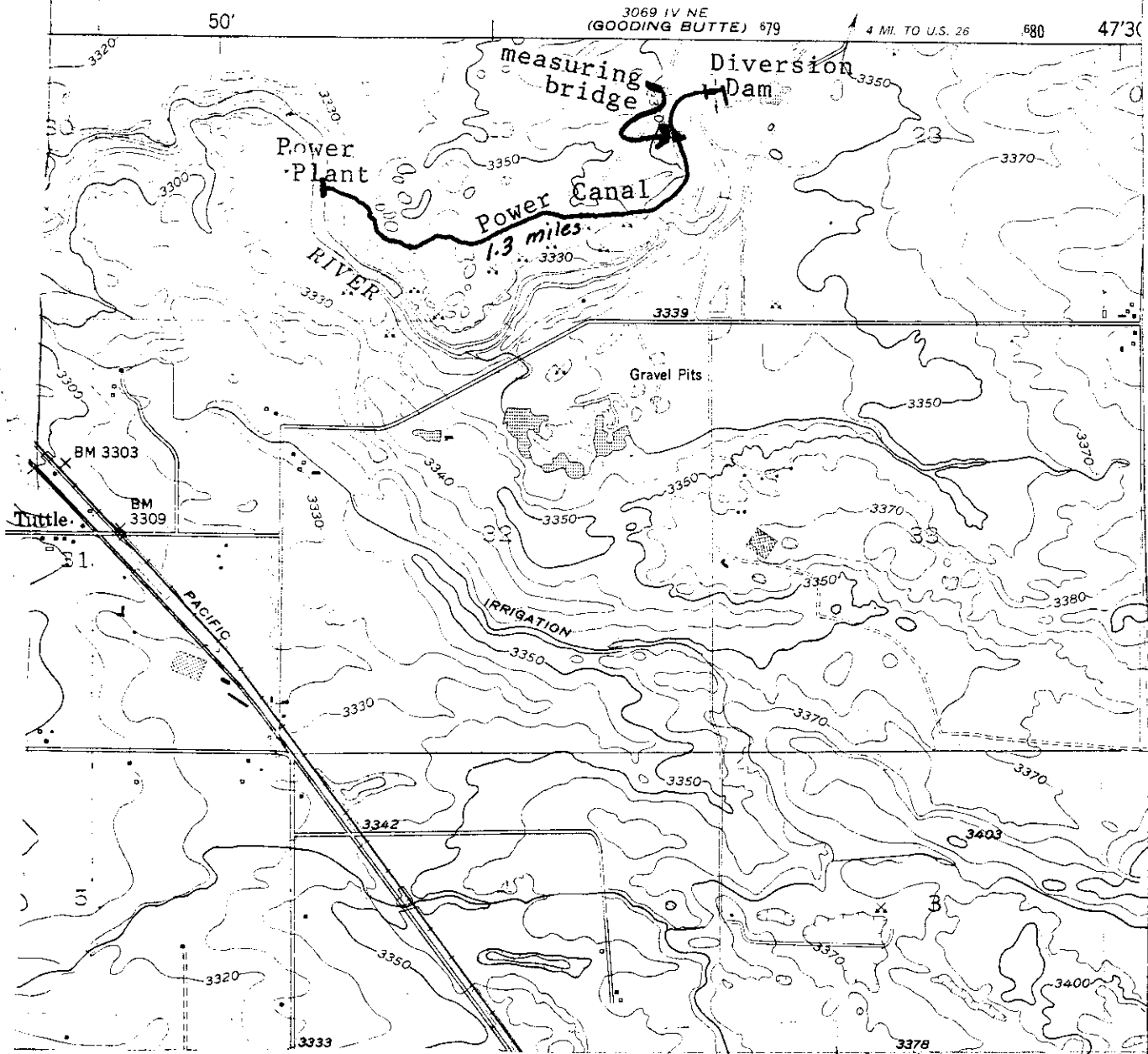


CONSULTANT SEAL

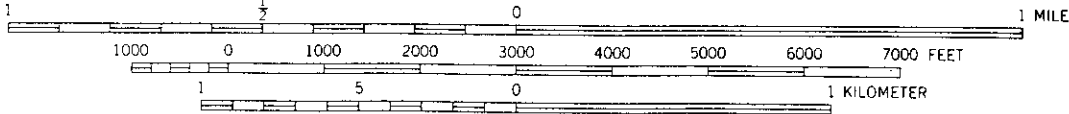
- K. Licensing recommendation shall be prepared by an Idaho Department of Water Resources employee on a computer printout attached hereto.

Map showing location of Ravenscroft Hydropower Project

UNITED STATES
DEPARTMENT OF THE ARMY
CORPS OF ENGINEERS



SCALE 1:24 000

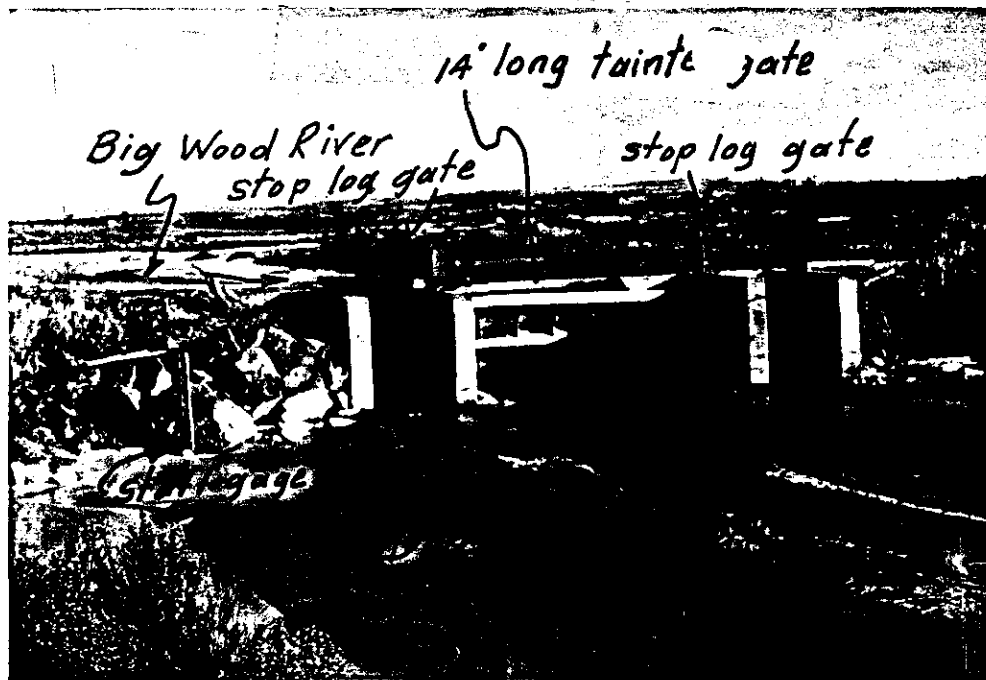


CONTOUR INTERVAL 10 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929



Base from
TUTTLE QUADRANGLE
IDAHO
7.5 MINUTE SERIES (TOPOGRAPHIC)

FIGURE 1



Diversion



Canal above Penstocks



Forebay at Spillway

FIGURE 2 A

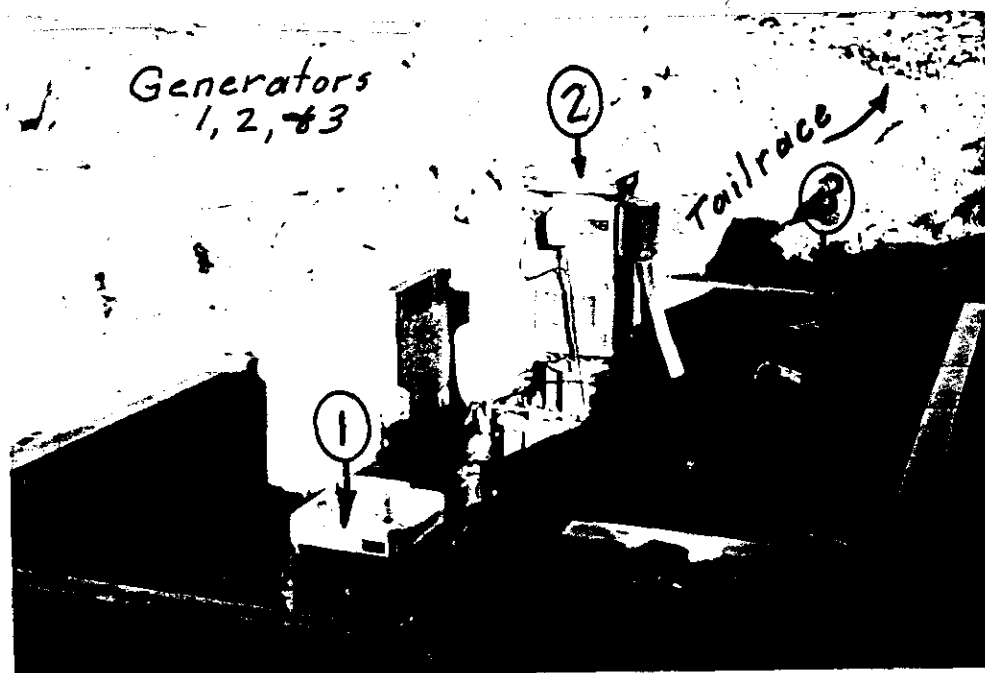
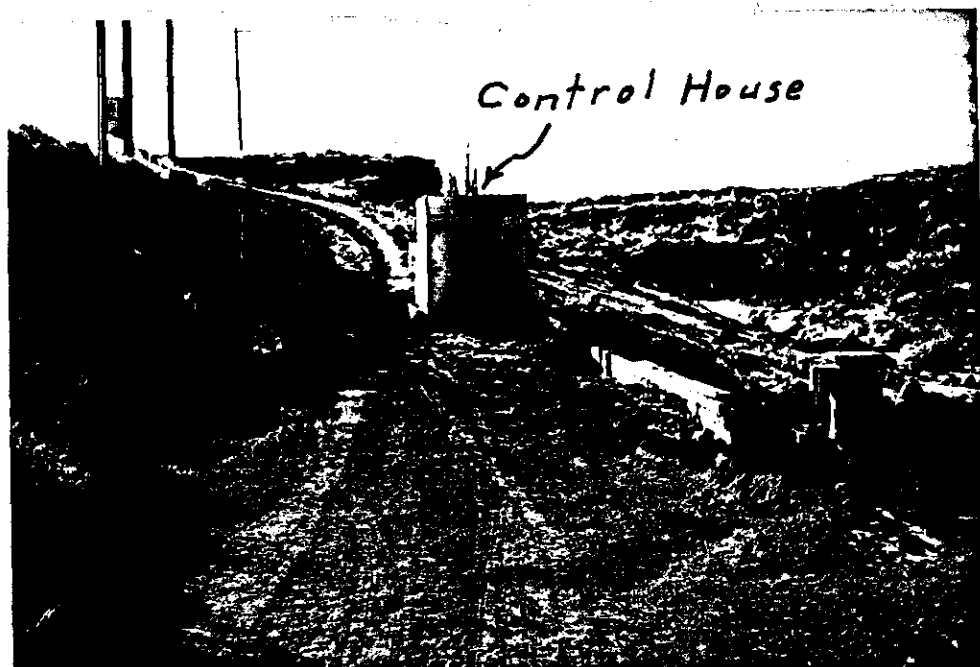
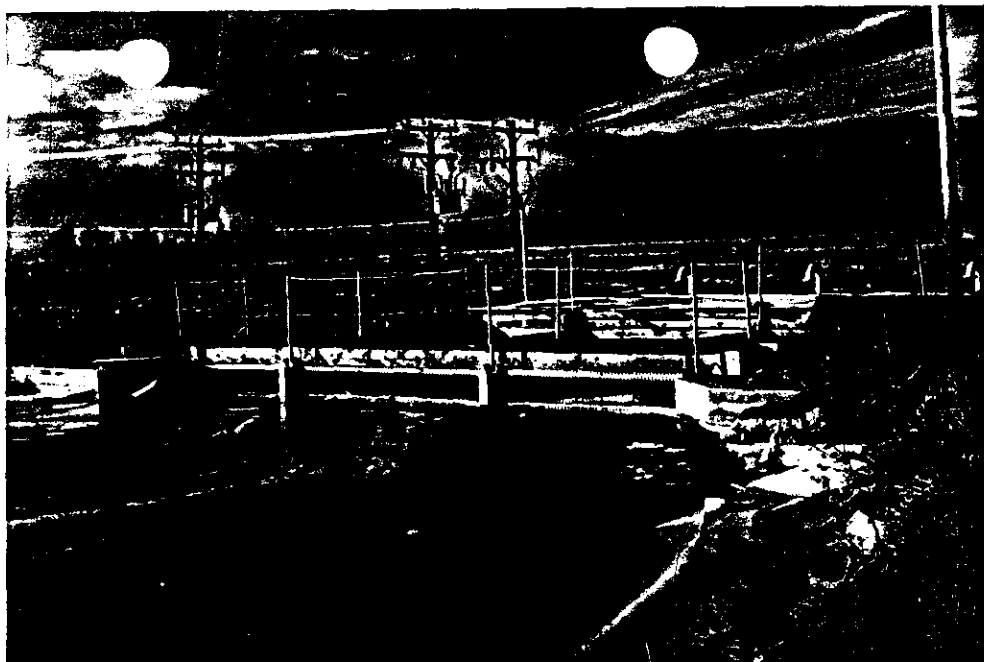
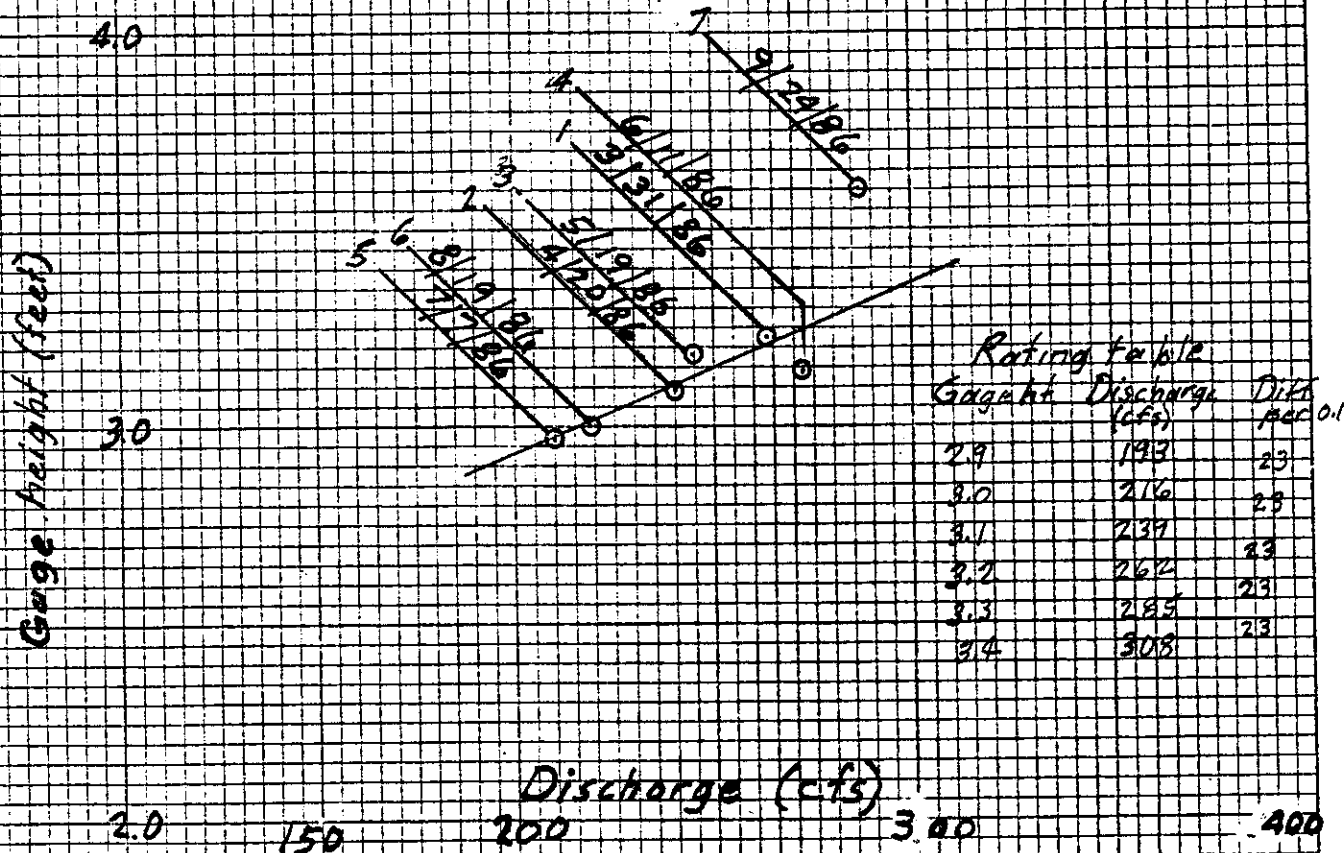


FIGURE 2 B

FIGURE 3

Station
Number

Ravenscroft Power Diversion Canal near Tuttle, Idaho Stage-Discharge Relation



DISCHARGE MEASUREMENTS

No.	Date	Gage height	Discharge (cfs)	% diff from curve	made by
1	3/31/86	3.23	264	-2.7	R. J. Newby
2	4/20/86	3.09	240	+2.8	"
3	5/19/86	3.18	244	-5.1	" shift +.06
4	6/11/86	3.13	272	+10.6	" shift +.11
5	7/7/86	2.96	210	+1.5	"
6	8/19/86	3.00	218	-1.4	"
7	9/24/86	3.60	3287	* shift +.29	C. A. Thomas shift +.29

S spill at 52 cfs above penstocks

* Measurement made after forebay spillway was raised.

More measurements are needed for new relation.

Note: Small shifts evidently occur from channel shifts and moss.

16-82985p-1 GPO

See next sheet

209.94

2	1.4	5	1.5
---	-----	---	-----

River at—

Angle of sight	Dist. from initial point	Width	Depth	Current from depth	Revol- utions	Time in sec- onds	VELOCITY		Adjusted for hor. angle or -----	Area	Discharge
							At point	Mean in ver- tical			
	32	2	4.5	1.4	30	44	1.51	1.57		9.6	14.8
				1.5	30	42	1.58				
	34	2	4.6		26	43	1.57	1.49		9.6	14.3
					30	47	1.47				
	36	2	4.8		30	46	1.44	1.38		9.6	13.2
					25	42	1.32				
	38	2	4.6		26	41	1.41	1.28		9.6	12.3
					25	43	1.16				
	40	2	4.7		25	43	1.29	1.15		9.4	10.8
					20	44	1.01				
	42	2	3.3	1.2	15	43	1.29	1.04		6.6	6.86
					6	15	.78				
	44	1.75	2.2	1.6	20	27	.95	.95		3.55	3.66
0	48	1.25	1.1	1.6	26	44	.93	.93		1.38	1.28
	46	.5	0		F.W.L.H.C. 41					0	0
	~~2093 287 19~~										
	Gage	3.4	0	10							

MEMORANDUM

TO: File No. 37-7857
FROM: Gary Spackman *Gary*
DATE: August 19, 1987
RE: Advancement of Priority for Failure to Submit Exam Fee
Information

On April 30, 1986, an examination fee notice letter was sent to Vernon Ravenscroft for Permit No. 37-7857. The fee notice letter was not responded to until January 30, 1987. On the examination form, Mr. Ravenscroft indicated that Mr. Cecil Thomas of Meridian, Idaho had been retained to conduct the examination. Mr. Thomas was a certified examiner at the time.

We normally require a statement from the certified examiner indicating that he has been retained to conduct the examination. In light of the fact, however, that we knew that Mr. Thomas had been retained previously by Mr. Ravenscroft for examination of the same site, the written statement from the certified examiner was not necessary.

The priority of Permit No. 37-7857 should be advanced 229 days, being the number of days between April 30th and January 16th when the exam fee information sheet was first received by the Department. According to my calculations, the new date of priority is May 12, 1981.

MEMORANDUM

TO: Files Nos. 37-7865 and 37-7922

FROM: Gary Spackman *Gary*

DATE: August 14, 1987

RE: Advancement of Priority for Failure to Submit Exam Fee Information

On April 30, 1986, the Department sent an examination fee notice letter to Vernon Ravenscroft for Permit Nos. 37-7865 and 37-7922. Mr. Ravenscroft returned the examination fee information sheet within 60 days, and indicated that Cecil Thomas of Meridian, Idaho had been retained to conduct the examinations. Our records at the time showed that Cecil Thomas was not a certified field examiner.

By letter dated July 2, 1986, Glen Saxton informed Mr. Ravenscroft that Cecil Thomas was not a certified field examiner, and also informed Mr. Ravenscroft that he would lose one day of priority on the permits for each day after June 29, 1986, that the application for appointment of Mr. Thomas was late.

On July 10, 1986, the Department received the application of Cecil Thomas for appointment as a certified water right examiner. The number of days between June 29th and July 10 is 10 days when one ignores the 29th of June, and the 10th of July, the day the application was received. Therefore, the priority of Permit Nos. 37-7865 and 37-7922 should both be advanced 10 days. With respect to the requirement that a letter from the certified examiner accompany the examination fee information sheet, I do not believe that the letter is required to toll the advancement of priority. We had sufficient information in our file to confirm that Cecil Thomas had been retained.



State of Idaho

DEPARTMENT OF WATER RESOURCES

STATE OFFICE, 450 W. State Street, Boise, Idaho

CECIL D. ANDRUS

Governor

A. KENNETH DUNN

Director

Mailing address:
Statehouse
Boise, Idaho 83720
(208) 334-4440

June 15, 1987

RE: Permit Nos. 37-7857, 37-7865 & 37-7922

Vernon F. Ravenscroft
1843 Broadway, Suite 102
Boise, ID 83706

Dear Mr. Ravenscroft:

I have reviewed the Beneficial Use Field Reports submitted for the above referenced permits. In this review, I find that more information is needed to address the requirements of the Department's Beneficial Use Examination Rules and Regulations, particularly Rule 5.

Enclosed are the original beneficial use field reports. Please be sure to provide information for each of the items listed in Rule 5,1,2 through 5,1,16. Some rules may not apply to these rights and can be so noted.

Also, please be aware that Rule 5,2,3. requires that you supply the requested information within 30 days of this request.

Enclosed for your information is a copy of the Beneficial Use Examination Rules and Regulations. If you have any questions or if I can be of any assistance, please let me know.

Sincerely,

JIM JOHNSON
Water Rights Supervisor

JJ:sc

Enclosures

NAME AND
ADDRESS
OF SENDERDEPARTMENT OF WATER RESOURCES
STATEHOUSE
BOISE, IDAHO 83720

Indicate type of mail

- ☐
- Registered
-
- ☐
- Insured
-
- ☐
- COD
-
- ☒
- Certified
- ☐
- Express Mail

Check appropriate block for
Registered Mail:

- ☐
- With Postal Insurance
-
- ☐
- Without Postal Insurance

Affix stamp here if issued as
certificate of mailing or for
additional copies of this bill.

POSTMARK AND DATE OF RECEIPT

Line	Number of Article	Name of Addressee, Street, and Post-Office Address	Postage	Fee	Handling Charge	Act. Value (If Regis.)	Insured Value	Due Sender If C.O.D.	R. R. Fee	S. D. Fee	S. H. Fee	Rest. Del. Fee Remarks
1	138506	Bonneville Pacific Corp. c/o David Hirschi 185 S. State St. P.O. Box 11898 Salt Lake City, UT 84147 37-7889 & 37-7916	22	75								
2												
3												
4	138507	Geobon II Assoc. Ltd. Partnership 1200 Quail St., Suite 260 Newport Beach, CA 92660 37-8096 & 37-8251										
5												
6												
7	138508	Bonneville Pacific Corp. c/o Vernon F. Ravenscroft P.O. Box 983 Boise, ID 83701 37-7857, 37-7865, 37-7922										
8												
9												
10	138509	Shorock Hydro, Inc. Box 1787 Twin Falls, ID 83303-1787 37-7911 & 37-7863										
11												
12												
13	138510	Bill and/or Karen Arkoosh Route 2 Box 50 Gooding, ID 83330 37-7943										
14												
15												
Total Number of Pieces Listed by Sender			Total Number of Pieces Received at Post Office			POSTMASTER, PER (Name of receiving employee)			The full declaration of value is required on all domestic and international registered mail. The maximum indemnity payable for nonnegotiable documents under Express Mail document reconstruction insurance is \$50,000 per piece subject to a limit of \$500,000 per occurrence. The maximum indemnity payable on Express Mail merchandise insurance is \$500. The maximum indemnity payable is \$25,000 for Registered Mail, \$400 for COD and \$400 for Insured Mail. Special handling charges apply only to Third- and Fourth-Class parcels. Special delivery service also includes special handling service.			
5			5			K. E. H. H. H.						

FORM MUST BE COMPLETED BY TYPEWRITER, INK OR BALL POINT PEN

★ U.S. G.P.O. 1985-478-804

PS Form 3811, July 1983 447-945



SENDER: Complete items 1, 2, 3 and 4.

Put your address in the "RETURN TO" space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for service(s) requested.

1. ☐ Show to whom, date and address of delivery.
2. ☐ Restricted Delivery.

3. Article Addressed to:

Bonneville Pacific Corp.
c/o Vernon F. Ravenscroft
P.O. Box 983
Boise, ID 83701

4. Type of Service:

- | | |
|---------------------------------------|----------------------------------|
| ☐ Registered | ☐ Insured |
| ☐ Certified | ☐ COD |
| ☐ Express Mail | |

Article Number

138508

Always obtain signature of addressee or agent and DATE DELIVERED.

5. Signature - Addressee

X

6. Signature - Agent

X *Joyce L. Becker*

7. Date of Delivery

5-13-87

8. Addressee's Address (ONLY if requested and fee paid)

DOMESTIC RETURN RECEIPT

37-7857, 37-7865, 37-7922



State of Idaho
DEPARTMENT OF WATER RESOURCES
STATE OFFICE, 450 W. State Street, Boise, Idaho

CECIL D. ANDRUS
Governor

A. KENNETH DUNN
Director

Mailing address:
Statehouse
Boise, Idaho 83720
(208) 334-4440

37-7865
HAYES, VERNON F.
HAYES, HARRIET F.
P.O. BOX 893
BOISE, ID 83701

April 30, 1987

Dear Permit Holder:

LAPSE NOTICE
License Examination Fee

You are hereby notified that under the provisions of Section 42-217 and 42-218a, Idaho Code, the above referenced permit will lapse and be of no further force nor effect on June 30, 1987, for failure of the permit holder to submit either the license examination fee or an acceptable field examination report prepared by or under the supervision of a certified water right examiner.

Provisions of § 42-217, Idaho Code, and the Beneficial Use Examination Rules and Regulations provide that failure of the permit holder to submit either the fee or an acceptable field examination report within one (1) year and sixty (60) days after notification by the director that the submittal is due is cause for the director to reject the proof of beneficial use and lapse the permit. The Department notified you of the required submittal on April 30, 1986.

The lapsed permit can be reinstated upon a showing of reasonable cause for late submittal of proof of beneficial use, if you submit to the Department on or before August 28, 1987, either the license examination fee or an acceptable field examination report prepared by or under the supervision of a certified water right examiner.

Enclosed is a fee information sheet that must be completed and submitted to the Department to keep the permit in good standing. If you have questions, please contact any office of the Department.

Sincerely,

L. Glen Saxton
L. GLEN SAXTON, Chief
Operations Bureau

Enclosure

CONVERSATION MEMORANDUM

DATE May 11, 1987FILE 37-7857, 37-7865
and 37-7922.

NAME OF PARTY

Vern Ravenscroft

EMPLOYEE

Gary Spackman

RE:

Today I spoke with Vern Ravenscroft about field exams for the above files which he represented were submitted toward the end of April. I told Vern that we received copies of the field exams on April 29, 1987, but that we required submittal of the original documents. He stated that he would request that Mr. Thomas submit the original documents. I told Vern that the exams needed to be filed prior to the lapsing of the permits on approximately June 29, 1987.

May 7, 1987

24
16
—
40

Bonneville Pacific Corp.
c/o Vernon F. Ravenscroft
P. O. Box 983
Boise, ID 83701

CERTIFIED

Dear Mr. Ravenscroft:

Re: Permit No. 37-7857, 37-7865 & 37-7922

Department records show that the above referenced permits were issued to you for the purpose of hydropower generation purposes. One of the conditions of approval of the permits was that the use of water be non-consumptive. The assumption that hydropower uses are non-consumptive in nature is the very reason the department could justify approving late in time appropriations on stream systems which essentially have been fully appropriated in most cases for many years.

The department has been advised by watermasters in several water districts that substantial loss is occurring in some of the conveyance systems, particularly those where water is delivered to the power generating facility through a non-enclosed conduit, and the only use being made of the water is power generation.

You are hereby required to determine the loss occurring within your hydropower project and to provide the information to the department within twenty (20) days of the date of this letter. The determination must be made by a professional engineer licensed to practice in Idaho or by a certified water right examiner using procedures acceptable to the department. In the interim, if the watermaster has measurements indicating that water is being lost within your project and that the water is needed by holders of prior rights, he has been instructed to regulate your diversion as needed to protect the prior rights, even though the herein required loss measurement has not been completed.

The runoff from surface water sources in 1987 is by far less than a normal year, so it is very likely any diversion for hydropower use experiencing a loss will be shut off by the duly authorized water master.

Authority for regulation of diversions by the watermaster is provided in Section 42-607, Idaho Code.

Hydropower users subject to being shut off may want to augment the stream system through acquisition of stored water or non-tributary water from some external source of supply in exchange for the water being lost in their conveyance system. Such arrangements may require approval under Section 42-222, Idaho Code.

Prior notice of the watermaster's action to regulate diversions cannot always be provided. If your generating equipment is subject to damage by the reduction of water flows, it is your responsibility to contact the watermaster to arrange a procedure to provide for regulation of the diversion without damage to your facilities.

Please feel free to contact the department if you have questions.

Sincerely,



A. KENNETH DUNN,
Director

c: Regional office
Watermaster

MEMORANDUM

TO: Files Nos. 37-7857, 37-7865, & 37-7922

FROM: Gary Spackman *Gary*

DATE: January 27, 1987

RE: Affidavit of authorization to do business in the State of Idaho.

The affidavit for water rights to be used for power purposes for the above permits received on January 26, 1987, indicated that the project common to the above permits would utilize existing man-made irrigation facilities. My discussions with Vernon Ravenscroft regarding the marking of this particular option in sub section B reveals that the statement is not correct. I believe, however, that the marking was a misunderstanding on the part of the signer of the document. Furthermore, it is my opinion that we are not concerned about the ownership of the facilities at this point in the development, since the project has already been completed. As a result, I have not required that the affidavit be amended.

MICROFILMED

APR 13 1987



State of Idaho

DEPARTMENT OF WATER RESOURCES

STATE OFFICE, 450 W. State Street, Boise, Idaho

JOHN V. EVANS

Governor

A. KENNETH DUNN

Director

Mailing address:

Statehouse

Boise, Idaho 83720

(208) 334-4440

January 27, 1987

Victor A. Taylor, Attorney at Law
185 South State Street, Suite 1300
Salt Lake City, UT 84111

Re: Ravenscroft hydropower project; Water Permits Nos. 37-7857,
37-7865, & 37-7922.

Dear Mr. Taylor:

On January 26, 1987, Vernon Ravenscroft delivered to me an affidavit of qualification to do business in the State of Idaho submitted by Prudential Federal Savings and Loan Association and an assignment of the water right permits listed above executed by Prudential Leasing Company to Vernon F. Ravenscroft, Harriett B. Ravenscroft, and Bonneville Pacific Corporation. Based on our previous discussion, the Department recognizes the assignment from Prudential Leasing Company to the Ravenscrofts and Bonneville Pacific Corporation, which assignment also effectuates the previous assignment executed by the Ravenscrofts and Bonneville Pacific in favor of Prudential Federal Savings and Loan Association. Our records will show Prudential Federal Savings and Loan Association as the owner of the water right permits.

This letter also acknowledges the affidavit of qualification to do business in the State of Idaho. Please note that the affidavit is somewhat erroneous in sub part B, in that it states that the hydropower facility will "utilize existing man-made irrigation facilities" for delivery of the water. Vernon Ravenscroft has represented to me that the diversion works are not an existing man-made irrigation facility, and option number 1 which states that the facility will "not utilize existing man-made irrigation facilities" should have been marked. Our concern, however, is directed towards ownership of the diversion works at the time the project is being initially proposed. As a result, there is no necessity for a new affidavit, but I will place a memorandum in the file explaining the circumstances.

With the submittal of the above documents, it appears that the provisions of Idaho Code § 42-207 have been complied with, in that Prudential Federal is authorized to do business in the State

MAR 05 1987
FILMED

of Idaho, and the permits are not being assigned for purposes of bad faith, speculation, or delay.

As I mentioned in a previous letter to Mr. Ravenscroft, this letter expressly excludes approval of certain contracts in developments alluded to in the amendment to loan documents:

1. This letter does not recognize the validity of the construction referred to in paragraph B of the recitals portion of the amendment to loan documents, nor does it authorize additional water over and above the diversion amount approved in the original permits.
2. This letter does not recognize the validity of the supplemental water agreement with the Big Wood Canal Company referred to in paragraph 3.1 in the agreement section of the amendment to loan documents.

Should you have further questions regarding this letter, please contact me at your earliest convenience.

Sincerely,

Gary Spackman

GARY SPACKMAN, Supervisor
Water Allocation Section

GS:jf

CC: Vernon Ravenscroft

State of Idaho)
County of Ada) ss.

On this 27th day of January, 1987, personally appeared before me the signer(s) of the above instrument, who duly acknowledged to me that he executed the same.

Lyle Glen Taylor
Notary Public residing at
Boise, Idaho

seal

My commission expires:

11-25-92

RECORDED

MAR 06 1987



State of Idaho

DEPARTMENT OF WATER RESOURCES

STATE OFFICE, 450 W. State Street, Boise, Idaho

JOHN V. EVANS

Governor

A. KENNETH DUNN

Director

Mailing address:

Statehouse

Boise, Idaho 83720

(208) 334-4440

January 21, 1987

Victor A. Taylor, Attorney at Law
185 South State Street, Suite 1300
Salt Lake City, UT 84111

Re: Ravenscroft hydropower project; Water Permit's Nos. 37-7857,
~~37-7865~~, & 37-7922.

Dear Mr. Taylor:

In response to our telephone conversation on January 20, 1987, enclosed you will find an assignment form and an affidavit of authority to conduct business in the State of Idaho. The affidavit should be completed by an officer of Prudential Federal Savings & Loan.

I understand that Prudential Leasing Company will assign its interest in the water rights listed above to Vernon F. Ravenscroft, Harriett B. Ravenscroft, and Bonneville Pacific Corporation. After the assignment, the principle of after acquired title will apply, and the assignment previously executed in February, 1986, will take effect, and the assignment and security interest given by the Ravenscrofts and Bonneville Pacific to Prudential Federal Savings & Loan will become effective.

If you have further questions don't hesitate to call.

Sincerely,

GARY SPACKMAN, Supervisor
Water Allocation Section

GS:jf

Enclosures

MICROFILMED

MAR 06 1987



State of Idaho

DEPARTMENT OF WATER RESOURCES

STATE OFFICE, 450 W. State Street, Boise, Idaho

JOHN V. EVANS

Governor

A. KENNETH DUNN

Director

Mailing address:
Statehouse
Boise, Idaho 83720
(208) 334-4440

January 16, 1987

Vernon F. Ravenscroft
P.O. Box 893
Boise, ID 83701

Re: Approval of Real Estate Mortgage and First Amendment to Loan Documents.

Dear Mr. Ravenscroft:

The Department has reviewed a real estate mortgage dated in January or February, 1986, an assignment and security agreement dated in January or February, 1986, and a proposed first amendment to loan documents which has not fully been executed. The Department finds that the documents partially satisfy the requirement of Section 42-207, Idaho Code, in that it appears that the proposed first amendment to loan documents which amends the previous real estate mortgage is in proper form, except for references to the Assignment and Security Agreement.

Ownership of Water Permits Nos. 37-7857, ~~37-7895~~, and 37-7922 is vested in the name of Prudential Leasing Company, pursuant to an assignment of permit executed by Vernon F. Ravenscroft, Harriett B. Ravenscroft, and Bonneville Pacific Corporation on May 1, 1984. The Assignment and Security Agreement executed by Vernon F. Ravenscroft, Harriett B. Ravenscroft, and Bonneville Pacific Corporation in favor of Prudential Federal Savings and Loan Association cannot be recognized because of the previous assignment to Prudential Leasing Company. Although the Department suspects that Prudential Leasing Company and Prudential Federal Savings and Loan may have some common ties, the independent integrity of the organizations must be maintained in Department files.

As of the date of this letter I am unable to determine that Prudential Federal Savings and Loan Association is currently licensed to do business in the State of Idaho. The files of the Department contain an affidavit executed in 1984, stating that Prudential Leasing Company was licensed to do business in the State at that time. There is no reference in the file to Prudential Federal Savings and Loan. Prior to final approval of the mortgage mentioned above, proof of authority to do business in the State of Idaho must be submitted to the Department of Water Resources.

This letter expressly excludes approval of certain contracts and developments alluded to in the amendment to loan documents:

NOT REFILED

MAR 06 1987

1. This letter does not recognize the validity of construction referred to in paragraph B of the recitals portion of the amendment to loan documents, nor does it authorize additional water over and above the diversion amount approved in the original permits.
2. This letter does not recognize the validity of the supplemental water agreement with the Big Wood Canal Company referred to in paragraph 3.1 in the agreement section of the amendment to loan documents.

Should you have further questions regarding this letter, please contact me at your earliest convenience.

Sincerely,


GARY SPACKMAN, Supervisor
Water Allocation Section

GS:jf

RECEIVED

MAR 06 1987

AFTER RECORDING, PLEASE RETURN TO:

PRUDENTIAL FEDERAL SAVINGS AND LOAN ASSOCIATION
c/o LARSEN, KIMBALL, PARR & CROCKETT
185 South State Street, Suite 1300
Salt Lake City, Utah 84111
Attention: Victor A. Taylor, Esq.

REAL ESTATE MORTGAGE

[Idaho]

THIS MORTGAGE is executed as of the 1st day of February, 1986, by VERNON F. RAVENSCROFT and HARRIETT B. RAVENSCROFT, husband and wife (the "Ravenscrofts"), whose address is P. O. Box 893, Boise, Idaho 83701, and BONNEVILLE PACIFIC CORPORATION, a Utah corporation ("Bonneville"), whose address is 200 East South Temple, Suite 300, Salt Lake City, Utah 84111 (the Ravenscrofts and Bonneville are sometimes hereinafter collectively referred to as "Mortgagor"), in favor of PRUDENTIAL FEDERAL SAVINGS AND LOAN ASSOCIATION, a corporation chartered under the laws of the United States of America, whose address is 127 East 3300 South, Salt Lake City, Utah 84115 (hereinafter referred to as "Mortgagee").

Recitals:

I. Mortgagor holds an interest in the real property situated in Gooding County, State of Idaho, which is described in Exhibit "A" attached hereto and by this reference made a part hereof. The interest of Mortgagor in said real property is more specifically described in Exhibit "A".

II. The Ravenscrofts have certain obligations to Mortgagee under a certain Promissory Note (hereinafter the "Note") of even date herewith in the principal sum of One Million One Hundred Seventy Thousand Dollars (\$1,170,000.00), maturing on February 1, 1991, made by the Ravenscrofts and payable to Mortgagee at the times and in the manner set forth in the Note.

III. Bonneville will benefit economically from the loan made by Mortgagee to the Ravenscrofts, evidenced by the Note, and Mortgagee has, as a condition to making such loan, required the execution hereof by Bonneville.

NOW, THEREFORE, IN ORDER TO SECURE: (A) The payment and performance of each and every obligation of the Ravenscrofts

MICROFILMED

MAR 06 1987

evidenced by the Note; (E) any extensions, renewals or modifications of the Note or of the obligations evidenced thereby, regardless of the extent of or the subject matter of any such extension, renewal or modification; (C) the payment and performance of each and every agreement and obligation of Mortgagor under this Mortgage and under any other instrument given to evidence or further secure the payment and performance of any obligation secured hereby, including, but not limited to, an Assignment and Security Agreement of even date herewith executed by Mortgagor for the benefit of Mortgagee covering certain personal property and fixtures situated on the above-described real property (the "Security Agreement"); (D) the payment of all sums expended or advanced by Mortgagee pursuant to the terms of this Mortgage, the Note, the Security Agreement or any other instrument further evidencing or securing any obligation secured hereby, together with interest thereon as herein and therein provided; and (E) all awards and payments, including interest thereon and the right to receive the same, which may be made with respect to the Property as the result of (i) the exercise or threat of exercise of the right of eminent domain or condemnation, or (ii) any other injury to or decrease in the value of the Property (the foregoing items (A) through (E) and the matters referred to therein being hereinafter collectively referred to as the "Obligations");

Mortgagor hereby GRANTS, BARGAINS, SELLS, CONVEYS, WARRANTS and MORTGAGES unto Mortgagee, its successors and assigns, WITH POWER OF SALE, the Gooding County, Idaho tract of real property described in Paragraph I above, TOGETHER WITH all improvements located therein or thereon or appurtenant thereto, and all additions, replacements and improvements hereafter made thereto or placed therein or thereon; all fixtures and equipment now or hereafter attached to and used in connection therewith; all water and water rights belonging to or used upon or in connection with said real property, however represented, including all shares of stock representing any such water or water rights, and also including the water rights and permits described in Exhibit "B" attached hereto and by this reference made a part hereof; all condemnation and similar awards or payments made in lieu thereof; all rights of way, easements, rents, issues, profits, income, tenements, hereditaments, privileges and appurtenances thereunto belonging, however evidenced which are used or enjoyed with said real property or belonging to the same or which hereafter may be acquired and so used or enjoyed, all of which real property, together with the rights and interests in this Paragraph described (which said tract of real property, rights and interests, are hereinafter collectively referred to as the "Property"), shall be deemed to constitute a portion of the security hereby given for the payment of the indebtedness and the

MICROFILMED

PRUD1(07)
01/23/86

MAR 06 1987

performance of the obligations evidenced and secured hereby.

IN CONNECTION WITH THIS MORTGAGE, THE PARTIES AGREE AS FOLLOWS:

1. Warranties of Title and Authority. Mortgagor hereby represents and warrants that it is lawfully seized of an interest in the Property as described in Exhibit "A" attached hereto, that it has the authority and right to execute and deliver this Mortgage, that the Property is free and clear of any and all liens, encumbrances and interest of third parties (except for those referred to or described in Exhibit "C") and that any and all obligations it may have incurred in connection with the Property are current and without default. Mortgagor hereby releases, waives and relinquishes all exemptions and homestead rights which may exist with respect to the Property, including all rights under or by virtue of the homestead exemption or similar laws of the State of Idaho.

2. Obligations Mandatory. Mortgagor shall promptly pay or cause to be paid to Mortgagee, or order, and shall promptly perform or cause to be performed each and every payment and obligation on the part of Mortgagor provided to be paid or performed in connection with any of the Obligations. All of such payments and obligations are mandatory, and Mortgagor's failure to accomplish any of the same shall constitute a default under this Mortgage.

3. Payments Protecting Against Liens. Mortgagor shall pay, at least ten (10) days before delinquent, all taxes, assessments and governmental, municipal or other charges or impositions levied against or affecting the Property, or which might become a lien thereon, and shall promptly deliver all receipts for such payments to Mortgagee upon request. Mortgagor shall also pay and keep current any and all sums constituting an encumbrance, charge or lien upon the Property, or any part thereof, which may be prior or superior to the interest of Mortgagee hereunder.

4. Maintenance and Use of Property. Mortgagor agrees to maintain the Property at all times in good condition and repair; to keep and maintain all improvements which may be or become part of the Property in good order and repair and to allow no nuisances to exist or be maintained; to keep and maintain abutting grounds, sidewalks, roads and parking areas in good order and repair; to comply with all federal, state, county, municipal and other governmental statutes, ordinances, laws and regulations affecting the Property or any condition or activity respecting the Property, including, but not limited to, any and

all laws, rules, regulations, orders and agreements affecting the Property by, with or from the Federal Energy Regulatory Commission, the Bureau of Land Management of the Department of Interior, the State of Idaho Department of Water Resources and the State of Idaho Public Services or Utilities Commission; to comply with the terms, provisions and conditions of any and all leases, agreements and other instruments affecting the Property, including, but not limited to, the Lease dated November 3, 1982 executed by Ben Slatter and Fae Slatter, husband and wife, as lessor, and Vernon F. Ravenscroft, as lessee, the Lease dated November 8, 1982 executed by Dean Shaffer and Eileen Shaffer, husband and wife, as lessor, and Vernon F. Ravenscroft and Harriett B. Ravenscroft, as lessee, the Bureau of Land Management right of way No. I-17053 granted March 5, 1982 to Vernon F. Ravenscroft, and the instruments listed or described in Exhibit "C" attached hereto; not to commit or permit waste upon the Property; to commence any necessary construction on the Property promptly and to pursue the same to completion with reasonable diligence; to restore promptly and in a good and workmanlike manner any improvement which may for any reason be damaged or destroyed; to allow Mortgagee to inspect the Property at all reasonable times during the term hereof; and to comply with all provisions of law concerning maintenance, use or improvement of the Property.

5. Insurance Coverage. Except and to the extent specifically waived in writing by Mortgagee, Mortgagor shall secure and at all times maintain an insurance policy or policies reasonably satisfactory to Mortgagee providing: (a) hazard insurance with coverage in an aggregate amount reasonably acceptable to Mortgagee, upon the fixtures and improvements now existing or hereafter erected or placed upon the Property, insuring against the perils of fire, extended coverage, vandalism and malicious mischief, and such other perils as Mortgagee may reasonably require; and (b) coverage against business interruption and loss of income resulting from any casualty, or resulting from the inability of Mortgagor to generate and sell electricity from the Property for any reason whatsoever, including low water, with the amount of coverage afforded at least sufficient to cover the monthly payments required to be made to Mortgagee under the Note for a period of six months. Also, said policies shall include the standard loss payable mortgagee clause in favor of and in a form acceptable to Mortgagee. None of the insurance policies or coverage obtained by Mortgagor pursuant hereto shall be such as result in either Mortgagor or Mortgagee being a co-insurer in the event of any loss. Each policy shall include a waiver of subrogation clause. Mortgagee shall have the right to review the forms, coverages, amounts and duration of all such insurance policies from time to

time and to require, upon thirty (30) days advance written notice thereof, that forms, coverages, amounts or duration of such policies be changed or modified so as reasonably to protect Mortgagee's interest in the Property. Such insurance shall be carried with companies approved by Mortgagee with loss payable clauses in favor of and in a form acceptable to Mortgagee. Mortgagor shall deliver to Mortgagee certificates duly executed by the insurers evidencing such insurance coverage.

In the event that the improvements on the Property are so damaged by fire or other casualty as to be unable to produce commercially marketable quantities of electricity for a term which Mortgagee reasonably estimates will be in excess of six months, then Mortgagee shall have the right to cause the obligations to become immediately due and payable upon sixty (60) days' written notice to Mortgagor. In such event, any and all proceeds of insurance shall be applied first to the payment of the Obligations and the remainder, if any, shall be available to Mortgagor.

6. Appearance in Proceedings Affecting Security. Mortgagor shall appear in and defend any action or proceeding purporting to or which might in any way affect the title to the Property or the security hereof. (The phrase "the security hereof" when used in this Mortgage shall mean the interest of Mortgagor and Mortgagee in the Property, the rights, powers, duties, covenants, representations, warranties and authority of Mortgagor and Mortgagee hereunder and under any instrument further evidencing or securing the Obligations, and the validity, enforceability and binding effect hereof and of any instrument further evidencing or securing the Obligations.) Should Mortgagee elect to appear in or defend any such action or proceeding, Mortgagor shall pay all costs and expenses incurred by Mortgagee in connection therewith, including costs of evidence of title, court costs and reasonable attorneys' fees.

7. Mortgagee's Performance in Mortgagor's Stead. Should Mortgagor fail to make any payment, to do any act or thing, or to perform any obligation herein provided to be paid, done or performed, at the time and in the manner so provided, Mortgagee may, but without any obligation to do so, and without notice to or demand upon Mortgagor, and without releasing Mortgagor from any obligation hereunder or thereunder, make, do, pay or perform the same in such manner and to such extent as Mortgagee may deem reasonably necessary or desirable to protect the security hereof or to protect any other legitimate interest of Mortgagee, Mortgagee for such purposes being authorized to enter upon the Property at all reasonable times and to commence, appear in, or defend any action or proceeding purporting to affect the security

hereof.

8. Repayment of Advances. The Ravenscrofts shall immediately repay to Mortgagee all sums, with interest thereon as hereafter provided, which at any time may be paid or advanced by Mortgagee for the payment of insurance, taxes, assessments, governmental, municipal or other charges or impositions, title searches, title reports or abstracts, any delinquent obligation secured by a prior lien upon or prior interest in the Property, and any other advances made by Mortgagee which are or appear to be necessary or desirable, in Mortgagee's discretion, to maintain this Mortgage as a valid and subsisting lien upon the Property, to preserve and protect Mortgagee's or Mortgagor's interest therein or hereunder, or to preserve, repair or maintain the Property. All such advances shall be wholly optional on the part of Mortgagee, and the Ravenscrofts' obligation to repay the same, with interest, to Mortgagee shall be secured by the lien of this Mortgage. The amount of each such advance shall, for the period during which it remains unpaid and both before and after judgment, bear interest at the rate of eighteen percent (18%) per annum.

9. Assignment of Rents and Profits. As additional security for the Obligations, Mortgagor hereby assigns to Mortgagee, for the term of this Mortgage, all rents, issues, royalties, income and profits derived from the Property, and all right, title and interest of Mortgagor under any lease covering any part of the Property. Until Mortgagor defaults in the Obligations, and except as otherwise provided in any instrument or document which constitutes a part of or is included in the Obligations, Mortgagor shall have the right to collect and use all rents, issues, royalties, income and profits derived from the Property. Upon any such default, Mortgagor's right to collect or use any of such proceeds shall cease, and Mortgagee shall have the right, with or without taking possession of the Property, and either in person, by agent, or through a court-appointed receiver (Mortgagor hereby consenting to the appointment of Mortgagee as such receiver) to sue for or otherwise collect all such rents, issues, royalties, income and profits, including those past due and unpaid. Any sums so collected shall, after the deduction of all costs and expenses of operation and collection, including reasonable attorneys' fees, be applied toward payment of the Obligations.

10. No Waiver of Rights by Collection of Proceeds. The entering upon and taking possession of the Property or the collection of rents, issues, royalty, income, profits, proceeds or compensation or awards for any taking or damaging of the Property or the application or release thereof shall not cure or waive any default or notice of default hereunder, shall not

invalidate any act done pursuant to such notice of default, and shall not operate to postpone or suspend any of the Obligations.

11. Application of Payments. If at any time during the term hereof Mortgagee receives or obtains a payment, installment or sum which is less than the entire amount then due in connection with the Obligations and in connection with all other instruments and transactions to which Mortgagor and Mortgagee are parties, Mortgagee shall, notwithstanding any instructions which may be given by Mortgagor, have the right to apply such payment, installment or sum or any part thereof, to such of the items or Obligations then due as Mortgagee may in its sole discretion determine.

12. Tax on Mortgage or Debt. Mortgagor shall pay to Mortgagee the amounts of all taxes, assessments or charges which may be levied by any governmental authority upon this Mortgage, upon the Obligations or upon Mortgagee, by reason of its interest under this Mortgage or in the Obligations; provided that no such payment shall be required with respect to any federal or state income tax paid by Mortgagee on any interest received under the Note.

13. Acceleration and Foreclosure. Time is of the essence hereof. In the event a payment or installment provided for herein or in the Note is not paid in full on or before its scheduled due date, or in the event Mortgagee discovers that any representation or warranty contained herein or in any other instrument evidencing or securing the Obligations is untrue in any material respect, or in the event of the occurrence of any other default hereunder or otherwise in connection with the Obligations, then, in such event, all of the Obligations shall, at the option of Mortgagee and without further notice or demand, immediately become due and payable and Mortgagee may proceed to foreclose this Mortgage in the manner provided by law for the foreclosure through judicial proceedings of mortgages covering real property. In connection with any such acceleration and foreclosure, Mortgagee shall have the right to appoint a receiver to take charge of the Property, collect the profits therefrom and otherwise use and utilize the Property. Mortgagor specifically agrees that the receiver may be appointed without any notice to Mortgagor whatsoever, and the court may appoint a receiver without any reference to the adequacy or inadequacy of security, or the solvency or insolvency of Mortgagor, and without reference to other matters normally taken into account by courts in the discretionary appointment of receivers, it being the intention of Mortgagor to hereby authorize the appointment of a receiver when Mortgagor is in default and Mortgagee has requested the appointment of a receiver. Mortgagor hereby agrees and consents

MICROFILMED

7- MAR 08 1987

to the appointment of the particular person or firm designated by Mortgagee as the receiver and hereby waives its rights to suggest or nominate any person as receiver in opposition to that designated by Mortgagee.

14. Foreclosure Through Judicial Proceedings. In any judicial proceeding brought to foreclose this Mortgage, Mortgagee shall be entitled to recover all costs and expenses incident to the realization of its rights hereunder, including attorneys' fees actually and reasonably incurred. Mortgagee shall be entitled to possession of the Property during any period of redemption. In the event of sale on foreclosure of this Mortgage, should the Property sell for less than the sum required to satisfy the entire indebtedness and all costs, the deficiency shall stand as a judgment against the Ravenscrofts and be collectible in the manner provided by law, and the Ravenscrofts further agree that the amount for which the Property may sell at foreclosure sale upon lawful notice shall be conclusively deemed in any foreclosure suit to be the reasonable value of such Property. The Ravenscrofts shall pay the deficiency immediately after determination of the amount thereof. Such deficiency shall, both before and after judgment therefor is entered, bear interest at the rate of eighteen percent (18%) per annum.

15. Rights Cumulative and Not Waived. The rights and remedies accorded by this Mortgage shall be in addition to, and not in substitution of, any rights or remedies available under now existing or hereafter arising applicable law. All rights and remedies provided for in this Mortgage or afforded by law or equity are distinct and cumulative and may be exercised concurrently, independently or successively. The failure on the part of Mortgagee to promptly enforce any right hereunder shall not operate as a waiver of such right and the waiver of any default shall not constitute a waiver of any subsequent or other default.

16. Nonassumption Provisions. Mortgagor agrees that, without the prior written consent of Mortgagee, Mortgagor will not sell, contract to sell, assign or convey the Property or any interest therein. Mortgagee's consent to one or more of the transactions described in the foregoing sentence shall not be deemed to be a waiver of the right to require such consent with respect to any future or successive transaction.

17. Binding on Successors. This Mortgage shall be binding upon and shall inure to the benefit of the respective grantees, transferees, heirs, devisees, personal representatives, successors and assigns of the parties hereto. The term "Mortgagee" as used herein shall mean the owner and holder,

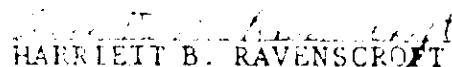
including any pledgee, of the Obligations.

18. Interpretation. The captions which precede the Paragraphs of this Mortgage are for convenience only and shall in no way affect the manner in which any provision hereof is construed. Whenever the context so requires, the singular shall include the plural, the plural shall include the singular, the whole shall include any part thereof, and any gender shall include both other genders. The liability of each of the undersigned shall be joint and several. The invalidity or unenforceability of any portion or provision of this Mortgage shall in no way affect the validity or enforceability of the remainder hereof. This instrument shall be governed by and be construed in accordance with the laws of the State of Idaho.

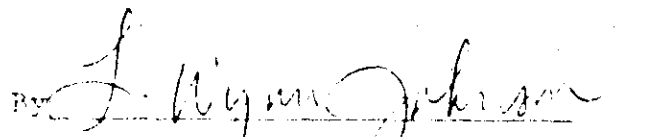
DATED the day and year first above written.

"Mortgagor":


VERNON F. RAVENSCROFT


HARRIETT B. RAVENSCROFT

BONNEVILLE PACIFIC
CORPORATION,
a Utah corporation

BY 
L. Wynn Johnson Vice President

MICROFILMED

PRUD1(07)
01/23/86

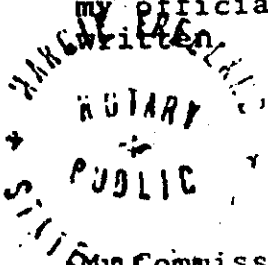
9-
MAR 06 1987

RECEIVED
MAR 10 1987

STATE OF Utah)
 : ss.
COUNTY OF Salt Lake)

On this 22 day of February, in the year 1986, before me, Notary Public, personally appeared VERNON F. RAVENSCROFT and HARRIETT B. RAVENSCROFT, husband and wife, known or identified to me to be the persons whose names are subscribed to the within instrument, and acknowledged to me that they executed the same.

In witness whereof, I have hereunto set my hand and affixed my official seal the day and year in this certificate first above written.



NOTARY PUBLIC
Residing at

My Commission Expires:

STATE OF Utah)
 : ss.
COUNTY OF Salt Lake)

On this 31st day of January, 1986, personally appeared before me, C. Wynn Johnson, the signer of the foregoing instrument, who being by me duly sworn, did say that he is the Vice President of BONNEVILLE PACIFIC CORPORATION, a Utah corporation, and that the foregoing instrument was signed on behalf of said corporation by authority of its bylaws or a resolution of its board of directors, and said C. Wynn Johnson acknowledged to me that said corporation executed the same.

C. Wynn Johnson
NOTARY PUBLIC
Residing at Centerville, Utah

My Commission Expires: 8-20-87

MICROFILMED

-10 MAR 06 1987

PRUD1(07)
01/23/86

Victor A. Taylor, E
Kimball, Parr, Crockett & Waddoups
P. O. Box 11019
Salt Lake City, Utah 84147

FIRST AMENDMENT TO LOAN DOCUMENTS

THIS FIRST AMENDMENT TO LOAN DOCUMENTS (the "Amendment") is entered into as of the _____ day of January, 1987, between PRUDENTIAL FEDERAL SAVINGS AND LOAN ASSOCIATION, a corporation chartered under the laws of the United States of America ("Lender"), whose address is 127 East 3300 South, Salt Lake City, Utah 84115, and VERNON F. RAVENSCROFT and HARRIETT B. RAVENSCROFT, husband and wife (collectively, the "Ravenscrofts"), whose address is P. O. Box 893, Boise, Idaho 83701, and BONNEVILLE PACIFIC CORPORATION, a Delaware corporation ("Bonneville"), whose address is 257 East 200 South, Suite 800, Salt Lake City, Utah 84111. (The Ravenscrofts and Bonneville are hereinafter collectively referred to as "Borrower.")

RECITALS:

A. On or about February 1, 1986, Lender made a loan (the "Loan") to the Ravenscrofts in the original principal amount of One Million One Hundred Seventy Thousand and 00/100 Dollars (\$1,170,000.00), which was evidenced and secured by the following documents, instruments and agreements (collectively, the "Loan Documents"):

(i) Promissory Note (the "Note"), in the principal amount of One Million One Hundred Seventy Thousand and 00/100 Dollars (\$1,170,000.00), dated February 1, 1986, executed by the Ravenscrofts, collectively as maker, and payable to the order of Lender, as holder, evidencing the obligation of the Ravenscrofts to repay the Loan;

(ii) Real Estate Mortgage, dated February 1, 1986, recorded in the Official Records of Gooding County, State of Idaho on February 4, 1986 as microfilm instrument No. 119483, executed by Borrower, as mortgagor, in favor of Lender, as mortgagee, securing repayment of the Note and encumbering certain real property (the "Property") located in Gooding County, State of Idaho, more particularly described on the attached Exhibit A, incorporated herein by this reference; and

(iii) Assignment and Security Agreement, dated February 1, 1986, executed by Borrower, as assignor, in favor of Lender, as assignee, assigning to Lender for security purposes certain contracts, equipment and other personalty and fixtures related to the Property.

B. Borrower desires for Lender to increase the amount of the Loan by an additional Three Hundred Thirty Thousand and 00/100 Dollars (\$330,000.00) (or to an aggregate amount of One Million Five Hundred Thousand and 00/100 Dollars (\$1,500,000.00)), to provide financing which will be used to add a fourth production unit by rebuilding and reinstalling a presently owned turbine, acquiring the necessary related accessories and making certain improvements to the tailrace access and canal systems related to the hydroelectric power generation facility located on the Property, and to retire certain short-term debt. In connection therewith, Lender's lien position will improve and Borrower will grant to Lender a security interest in certain collateral which will provide additional security for repayment of the Loan.

C. Lender is willing to increase the Loan for such purposes if, but only if, Borrower, among other things, enters into this Amendment, which is intended to modify and amend the Loan Documents to reflect the increased amount of the Loan and the additional collateral to serve as security therefor.

RECORDED

MAR 06 1987

D. Borrower desires to enter into this Amendment in order to induce Lender to so increase the Loan.

AGREEMENT:

NOW, THEREFORE, for the above purposes and in consideration of Ten Dollars (\$10.00) and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, Lender and Borrower hereby agree as follows, and the Loan Documents are hereby amended to the extent necessary to reflect all of the matters set forth herein:

1. Outstanding Principal. As of the date hereof, the total outstanding principal balance due under the Loan Documents is One Million Four Hundred Seventy-Three Thousand Seven Hundred Eighty-Three and 65/100 Dollars (\$1,473,783.65). All references to the principal amount of the Loan in the Loan Documents are hereby revised to read "One Million Four Hundred Seventy-Three Thousand Seven Hundred Eighty-Three and 65/100 Dollars (\$1,473,783.65)."

2. Interest; Monthly Payments. The outstanding balance of the original principal amount of One Million One Hundred Seventy Thousand and 00/100 Dollars (\$1,170,000.00) shall continue to bear interest at the rate of twelve and 36/100 percent (12.36%) per annum, both before and after judgment, and shall, with all accrued interest thereon and all other amounts due in connection therewith, be payable in full on February 1, 1991. The additional principal amount of Three Hundred Thirty Thousand and 00/100 Dollars (\$330,000.00) being loaned by Lender to the Ravenscrofts in connection herewith shall bear interest at the rate of eleven and one-quarter percent (11.25%) per annum, both before and after judgment, and shall, with all accrued interest thereon and all other amounts due in connection therewith, be payable in full on February 1, 1991. Borrower shall make a monthly payment to Lender on February 1, 1987 of Fourteen Thousand Three Hundred Fourteen and 08/100 Dollars (\$14,314.08). Thereafter, until repaid in full, principal of and interest on the Loan shall be paid in equal monthly installments of Eighteen Thousand Two Hundred Forty-Two and 45/100 Dollars (\$18,242.45) on the first day of each month, commencing on March 1, 1987 and continuing until and including February 1, 1991, at which time the remaining principal balance of the Loan, all accrued interest thereon and all other amounts due in connection therewith shall be paid in full. All interest payable on the Loan shall accrue daily and shall be calculated on the basis of a three hundred sixty (360) day year and the actual number of days elapsed in any partial calendar month. The foregoing provisions with respect to payment of principal and interest due under the Loan shall be in substitution of and not in addition to similar provisions contained in the Note.

3. Additional Collateral.

3.1 Contracts. Exhibit A to the Assignment is hereby amended as follows:

(a) Paragraph (1) of said Exhibit A is hereby deleted in its entirety and is replaced with the following new Paragraph (1):

(1) Power Sales Agreement, dated September 2, 1982, entered into between Vernon F. Ravenscroft and Harriett B. Ravenscroft, husband and wife (the "Ravenscrofts"), and Idaho Power Company, a Maine corporation ("Idaho Power"), relating to Idaho Power Company Facility No. 31515009, as amended by Amendment No. 1, dated March 7, 1984, entered into

between the Ravenscrofts and Bonneville Pacific Corporation, a Delaware corporation ("Bonneville"), and Idaho Power, and as further amended by Amendment No. 2, dated July 10, 1986, entered into between the Ravenscrofts and Bonneville and Idaho Power.

(b) The following new Paragraph (8) is hereby added to said Exhibit A:

(8) Supplemental Water Agreement, Contract No. 1986-001(A), dated December 5, 1986, entered into between Big Wood Canal Company, an Idaho corporation, and American Falls Reservoir District No. 2, an Irrigation District created under Idaho law, and the Ravenscrofts.

3.2 Equipment. Exhibit C to the Assignment is hereby amended by adding to said Exhibit C the equipment listed below in items 1 through 3, inclusive, and by deleting from said Exhibit C the equipment listed below in item 4:

	<u>Model Number</u>	<u>Serial Number</u>
1.	U.S. 450 KW Generator HV4 (Frame No. 5808P)	Pending
2.	450 KW Capacitor Pending	Pending
3.	1500 KVA Transformer Pending	Pending
4.	G. E. Transformer 750/840 KVA	AN N64885-3

4. Ratification. Except as expressly set forth in this Amendment, the Loan Documents and each provision thereof are hereby ratified and affirmed in their entirety. This Amendment modifies and amends, but does not in any manner cancel, repeal, extinguish, replace, satisfy or release, the obligations evidenced and secured by the Loan Documents. Except as specifically set forth herein, (a) the terms and conditions of this Amendment shall in no manner impair, limit, restrict or otherwise affect the liens, security interests, assignments or other rights, benefits, remedies or prerogatives created and evidenced by the Loan Documents; and (b) such liens, security interests, assignments and other rights, benefits, remedies and prerogatives are valid and subsisting and shall continue with their original priority until all of the obligations under the Loan Documents, as modified and amended hereby, are paid and performed in full. Borrower covenants, represents and warrants that the Loan Documents, as modified and amended hereby, are valid and binding obligations of Borrower, enforceable in accordance with their respective terms, and that there are no claims, defenses or offsets against any of the obligations of Borrower thereunder.

5. Miscellaneous. In the event that either Lender or Borrower brings suit to enforce or interpret this Amendment or for damages on account of the breach of a covenant, representation or warranty contained herein, the prevailing party shall be entitled to recover from the other party its reasonable attorneys' fees and costs incurred in any such action or in any appeal from such action, in addition to the other relief to which such prevailing party is entitled. If any provision of this Amendment is determined by a court to be void, voidable or unenforceable, such determination shall have no effect on the Loan Documents as heretofore executed, or on any other provision of this Amendment. This Amendment shall be binding upon and inure to the benefit of the parties hereto and their respective successors, assigns and legal representatives. This Amendment shall be governed by and construed in accordance with the laws of the State of Idaho. This Amendment may be executed in several

counterparts, each of which shall be deemed to be an original but which together shall constitute one and the same instrument.

IN WITNESS WHEREOF, Lender and Borrower have entered into this Amendment as of the date first set forth above.

RECORDED

MAR 06 1987

EXECUTED this _____ day of January, 1987, by PRUDENTIAL
FEDERAL SAVINGS AND LOAN ASSOCIATION, a corporation chartered
under the laws of the United States of America.

LENDER:

PRUDENTIAL FEDERAL SAVINGS AND LOAN
ASSOCIATION, a corporation chartered
under the laws of the United States of
America

By _____

Its _____

STATE OF UTAH)

: ss.

COUNTY OF SALT LAKE)

On this _____ day of January, in the year 1987, before me,
the undersigned, a Notary Public in and for said State,
personally appeared _____, known or identified to
me to be the _____ of Prudential Federal
Savings and Loan Association, a corporation chartered under the
laws of the United States of America, the corporation that
executed the above instrument or the person who executed the
instrument on behalf of said corporation, and acknowledged to me
that such corporation executed the same.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed
my official seal the day and year in this certificate first above
written.

NOTARY PUBLIC
Residing at _____

My Commission Expires:

[Seal]

RECEIVED

MAY 08 1987

EXECUTED this 15th day of January, 1987, by VERNON F. RAVENSCROFT and HARRIETT B. RAVENSCROFT, husband and wife.

THE RAVENSCROFTS:

Vernon F. Ravenscroft
VERNON F. RAVENSCROFT

Harriett B. Ravenscroft
HARRIETT B. RAVENSCROFT

STATE OF IDAHO)
COUNTY OF _____ : ss.
)

On this _____ day of January, in the year 1987, before me, the undersigned, a Notary Public in and for said State, personally appeared Vernon F. Ravenscroft and Harriett B. Ravenscroft, husband and wife, known or identified to me to be the persons whose names are subscribed to the within instrument, and acknowledged to me that they executed the same.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal the day and year in this certificate first above written.

NOTARY PUBLIC
Residing at _____

My Commission Expires:

[Seal]

SIGNATURE

MICROFILMED

MAR 05 1987



re of Idaho
DEPARTMENT OF WATER RESOURCES
STATE OFFICE, 450 W. State Street, Boise, Idaho

JOHN V. EVANS
Governor

A. KENNETH DUNN
Director

Mailing address:
Statehouse
Boise, Idaho 83720
(208) 334-4440

July 2, 1986

Vernon Ravenscroft
P.O. Box 893
Boise, ID 83701

Re: Field Exam for Permit Nos. 37-7865 and 37-7922

Dear Mr. Ravenscroft:

On June 5, 1986, you advised this office that Cecil Thomas had been retained as a certified water right examiner to conduct the field examinations in connection with the above-referenced permits. To date, Cecil Thomas has called this office a couple of times, but has not applied for appointment as a certified water right examiner.

The purpose of this letter is to follow-up my phone call to your office on July 26, 1986, which advised that beginning on June 29, 1986, the permits would lapse one day of priority for each day after June 29, 1986 that the application for appointment of Mr. Thomas is late. On June 26, 1986, your office advised me that Mr. Thomas would be contacted relative to the matter.

Appointment as a certified water right examiner should be coordinated through Bob Fleenor of this office.

Sincerely,

L. GLEN SAXTON
Chief, Operations Bureau

Is

cc: Bob Fleenor

MICROFILMED
MAR 06 1987



State of Idaho
DEPARTMENT OF WATER RESOURCES
STATE OFFICE, 450 W. State Street, Boise, Idaho

JOHN V. EVANS
Governor

A. KENNETH DUNN
Director

Mailing address:
Statehouse
Boise, Idaho 83720
(208) 334-4440

June 12, 1986

Cecil Thomas
3775 N. Locust Grove
Meridian, ID 83642

Dear Mr. Thomas:

Enclosed is an application for appointment as a certified water right examiner which needs to be completed and returned to the department with a filing fee in the amount of \$200.00

Also enclosed is a copy of the Beneficial Use rules and regulations for your use.

If you have any questions, please contact Bob Fleenor at 334-4407.

Sincerely,

L. Glen Saxton
L. GLEN SAXTON
Chief, Operations Bureau

LGS:rf

Enclosure

MICROFILMED

MAR 06 1987

4/86

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
EXAMINATION FEE INFORMATION

For Office Use Only
Fee Received _____
Date _____
Receipt # _____
Receipt by _____
Sent to S.O. _____

RECEIVED

JUN 9 1986

no incl. AS

1. Permit No. 138743 377865

ONE OF THE FOLLOWING BOXES SHOULD BE MARKED TO DESIGNATE YOUR CHOICE:

☐ I choose to have the department make the field examination of this permit; attached is the examination fee. (If this box is marked, complete items 1 thru 8.)

2. Permit Holder: Terran Ravenscroft (assigned to Bonville Pac. Corp.)

3. Post Office Address: P.O. 893 Boise, Idaho 83701

Telephone No. 345-2670

4. Source of Water: Malad River

5. Extent of Use:

Domestic _____ (No. of households) Stockwater _____ (No. and type of stock)

Irrigation _____ (acres) Other/Remark Hydro-Generation

6. Total rate &/or volume for which proof is submitted *' cfs _____ acre-feet

7. Show the date water was first diverted and beneficially used under this permit:

Dec. 1, 1983

8. Person to contact to accompany the department representative during the field examination:

(Name)

MICROFILMED

(Address)

MAR 06 1986

(Telephone Number)

☒ *² I choose to have the field examination conducted by a certified water right examiner. Attached is a statement from the certified examiner I have selected verifying that he has been retained to conduct the examination. (If this box is marked, complete items 1 thru 7.)

Date

6/5/86

Signature of Permit Holder (and title, if appropriate)

Terran Ravenscroft

*' This permit combined with two (2) others total 200 C.F.S.
Another new permit will add another 50 C.F.S. for a
Grand total of 250 C.F.S.

INTER-DEPARTMENT MEMO — 1

FROM *Glen*

DATE *6-26-86*

TO *Files 37-7865 & 37-7922*

SUBJECT

- I called Ravencroft's office today & advised the Cecil Thomas has not yet applied to Dept as a cert. water int examiner. & that permits were about ready to start issuing priority (6-29-86)

MICROFILMED

MAR 06 1987

- His office will contact Thomas.

SIGNATURE



Consulting Associates, Incorporated

BOISE OFFICE
VERNON RAVENSCROFT
HELEN CHENOWETH

PHONE (208) 345-2670
P.O. BOX 893
BOISE, IDAHO 83701

RECEIVED
JUN 9 1986

June 5, 1986

Department of Water Resources

L.Glen Saxton
Chief, Operations Bureau
State of Idaho
Department of Water Resources
Statehouse
Boise, Idaho 83720

37-7865
37-7922

Dear Mr. Saxton,

I have arranged with Cecil Thomas to make a private inspection and certification of the Water Rights for the Ravenscroft project.

You will find attached, the two forms of the Water Permit pertaining to the project.

I have asked Cecil Thomas to send you a verification of his employment.

Sincere Regards,

Vernon Ravenscroft
Vernon Ravenscroft

VFR:di
attachments

RECEIVED

MAR 10 1987



State of Idaho

DEPARTMENT OF WATER RESOURCES

STATE OFFICE, 450 W. State Street, Boise, Idaho

JOHN V. EVANS

Governor

A. KENNETH DUNN

Director

Mailing address:
Statehouse
Boise, Idaho 83720

Bonneville Pacific Corp. &
Vernon F. Ravenscroft
200 S. Temple, Suite 300
Salt Lake City, UT 84111

138743

April 30, 1986

CERTIFIED MAIL

EXAMINATION FEE NOTICE

Dear Permit Holder:

Department records show that proof of beneficial use has been submitted for the above-referenced permit, but that a field examination has not yet been conducted to determine the extent of beneficial use of the water for licensing purposes.

House Bill 671 (effective April 4, 1986) enacted by the 1986 Idaho Legislature requires the payment of a fee before this department can conduct the field examination needed to issue a license confirming use of water under the permit. This letter is notification that the license examination fee is due within sixty (60) days of the date of this letter. The examination fee information sheet (enclosed) must be returned with the fee.

As an alternative to submitting the fee, the department will accept a field examination report completed by a certified water right examiner from the private sector. If you choose to have the examination done by a certified water right examiner, you need not submit the license examination fee to the department, but you must within sixty (60) days of the date of this letter return to the department, the examination fee information sheet showing appropriate information together with a statement from the certified examiner to verify that you have retained a certified examiner to conduct the field examination. If you choose this alternative, a completed field examination report must be submitted within one year of the date of this letter. You cannot later change your decision to use this alternative and submit the fee needed for the department to conduct the field examination, but you may change to another certified examiner.

Certified water right examiners are licensed engineers, geologists, or land surveyors certified by the department to conduct water right examinations. The procedure for certifying examiners results from the recently enacted HB 671 and is being developed. A listing

MICROFILMED

MAR 06 1987

of certified water right examiners will be available from this department when examiners have been certified.

If your permitted use, in fact, has already been examined by the department and you have not asked to have the examination repeated, the fee requirement is not applicable to your permit. If you believe this is the case, please contact the department.

The license examination fee is to be based on the amount of water you indicate you have developed, as listed in item 6 on the examination fee information sheet. The amount of water on which the examination fee is based can be less than the permitted amount, if less water has been diverted and beneficially used. The licensed amount of water, however, will not exceed the amount you claim on the examination fee information sheet. The enclosed license examination fee schedule shows a listing of applicable fees.

FAILURE TO SUBMIT WITHIN THE SIXTY (60) DAY PERIOD, THE FEE OR THE STATEMENT THAT A CERTIFIED EXAMINER HAS BEEN RETAINED TO MAKE THE FIELD EXAMINATION, WILL BE CAUSE TO ADVANCE THE PRIORITY OF THE PERMIT ONE DAY FOR EACH DAY THAT THE FEE SUBMITTAL IS LATE.

FAILURE TO SUBMIT THE FEE OR THE COMPLETED FIELD EXAMINATION REPORT WITHIN A YEAR WILL BE CAUSE TO CONSIDER THE PROOF OF BENEFICIAL USE TO BE INCOMPLETE AND TO LAPSE THE PERMIT.

The attached examination fee information sheet and the fee may be submitted to the following department offices.

Northern Region

Idaho Dept. of Water Resources
4055 Government Way
Coeur d'Alene, ID 83814
Phone: 765-4639

Eastern Region

Idaho Dept. of Water Resources
150 Shoup Ave., Suite 15
Idaho Falls, ID 83401
Phone: 525-7161

Southern Region

Idaho Dept. of Water Resources
1041 Blue Lakes Blvd. North
Twin Falls, ID 83301
Phone: 734-3578

Western Region

Idaho Dept. of Water Resources
450 W. State St., (Third Floor)
Boise, ID 83720
Phone: 334-2190

Sincerely,



L. GLEN SAXTON
Chief, Operations Bureau

Enclosures

RECEIVED

MAR 06 1987

November 20, 1985

Bonneville Pacific Corporation and
Vernon F. Ravenscroft
200 S. Temple, Suite 300
Salt Lake City, UT 84111

Gentlemen:

Re: Permit No. 37-7857, 37-7865 and 37-7922

Returned are three proof of beneficial use forms submitted on the above referenced permits.

Please be advised that proof has been submitted previously by Prudential Leasing Company in September of 1984. It is not necessary to submit proof again even though the permits have changed ownership.

If you have any questions concerning this matter, please feel free to contact me.

Sincerely,

RITA I. FLECK
Secretary/Records Manager

Enclosures

MICROFILMED

MAR 06 1987

WATER RIGHT NUMBER 37-7865

VERIFIED DJ

4-26-85

OWNER LAST NAME - RAVENSCROFT FIRST NAME - VERNON F. ORIG OWNER - D
OWNER LAST NAME - PRUDENTIAL LEASING COMPANY FIRST NAME - ORIG OWNER -
ADDRESS LINE 1 - 155 E. 3300 S. ADDRESS LINE 2 -
ADDRESS LINE 3 - CITY - SALT LAKE CITY STATE - UT ZIP CODE - 84115
SOURCE - MALAD RIVER TRIBUTARY OF - SNAKE RIVER
STAGE - PERMIT STATUS - PRIORITY - 11-05-1980 COUNTY - GOODING TOTAL DIV. RATE - 130.0000 -CFS
TOTAL DIV. VOLUME - .00 AFA TRFR/AMEND - WATER DIST. - 37 DLE/CAREY ACT - RIGHT BASIS -
DIVERSION POINT - SESE 29 06S 14E LOT REDIV - 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
FROM - 01-01 TO - 12-31 USE - POWER USE DIV. RATE - 130.0000 CFS USE DIV. VOLUME - .00 AFA
USE - POWER PLACE OF USE - TWN 06S RNG 14E SEC 29 TRACT SWSW LOT AC
DECREE NAME - DATE - TOTAL ACRES 0
REMARKS - REINSTATED 10-23-1984.
THE PROPOSED ROCK WASHING IN THE STREAM COULD BE CONDUCTED DURING
LOW FLOW PERIODS WHEN THE FLOW OF THE RIVER DOES NOT EXCEED
50 CFS.
NON IRRIG USE -
OTHER RIGHTS FOR SAME USE - 37-7857
PROOF DUE - 09-01-1984 PERMIT/DENIED - PROTESTED - HEARING - OLD NO. -
PROOF MADE - P FLD EXAM - COND. OF APPROVAL - 08A 17 04 05 16 01E 25
DIVERSION MEANS - CONTROL GATE

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
Southern Region

1041 Blue Lakes Blvd. N.
Twin Falls, Idaho 83301
(208) 734-3578

OCTOBER 30, 1984

PRUDENTIAL LEASING CO.
155 EAST 3300 SOUTH
SALT LAKE CITY UT 84115

RE: Permit No. 37-7865

Dear Permit Holder:

We acknowledge receipt of your statement submitted as proof of beneficial use for the above referenced permit.

Enclosed please find a copy of an order involving your permit.

Before a license can be issued, a field examination must be made by a representative of this department.

A field examiner will contact you to arrange to examine your system.

If you have any questions regarding the field examination, please contact this office by phone at 734-3578 or in person at our office at 1041 Blue Lakes Blvd. N. Twin Falls, Idaho.

Sincerely,
s/Mary A. Newby
Secretary

Enclosure

MICROFILMED
MAR 06 1987

^ALCULATION OF NEW PRIORITY DATE

FROM: RITA FLECK

TO: FILE # 37-7865

DATE: 10-16-84

Date proof received

250

Sept. 7

Proof due

-244

Sept. 1

Number of day proof late

6

Priority date

+303

Oct 30, 1980

New priority date

309

Nov. 5, 1980

Remarks:

MICROFILMED

PLACE
13 CENT
STAMP
HERE

RECEIVED

SEP 17 1984



IDAHO DEPARTMENT OF WATER RESOURCES
STATEHOUSE

BOISE, IDAHO 83720

Department of Water Resources
Department of Water Resources

RECEIVED

DEPARTMENT OF WATER RESOURCES

The Idaho Department of Water Resources will consider this card as a statement that the permit holder(s) has completed development to the extent shown below of Permit No. 37-7865

Name(s) of Permit Holder: Prudential Leasing Co.

Post Office Address: 155 East 3300 South, Salt Lake City, UT 84115

contact V. Ravenscroft for inspection 208-345-2670
Tel. No. 37-7922

Source of Water: Malad River other permits - 37-7857

Extent of Use: ☐ Domestic (number of households)
☐ Stockwater (number and type of stock)
☐ Irrigation (acres)
☒ Other power

Measuring Device: Required? ☒ Yes ☐ No Installed? ☒ Yes ☐ No
Access Port: Required? ☐ Yes ☒ No Installed? ☐ Yes ☐ No

The above information is a true statement of the extent to which the above numbered permit has been developed.

Sept 4, 1984
Date

MICROFILMED

[Signature]
Signature of Permit Holder Pres



Prudential Leasing Company

Larry R. Stevens
President

155 East 33rd South
Salt Lake City, Utah 84115
(801) 487-8951

an affiliate of

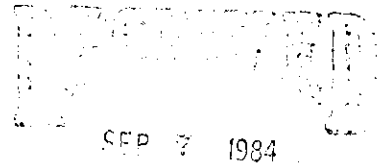


Prudential Financial Services Corporation

and affiliates

- Prudential Federal Savings
- Prudential Commercial Lending Company
- Prudential Mortgage Company
- Prudential Leasing Company
- Prudential Risk Management Company
- Prudential Development Company
- Prudential Securities Company
- Prudential Contract Administration Company
- Olympus Capital Corporation
- Wasatch Management Corporation

September 6, 1984



Department of Water Resources

Idaho Water Resources Department
450 West State
Boise, Idaho 83720

Gentlemen:

Enclosed please find 3 executed cards for water permit 37-7857, 37-7865, 37-7922 indicating that we have completed the development indicated.

If you have any questions concerning these, please contact the undersigned.

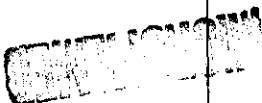
Very truly yours,

Larry R. Stevens

LRS/tb

Enclosures

CC: Consulting Associates, Inc.



S T A T E O F I D A H O
D E P A R T M E N T O F W A T E R R E S O U R C E S

STATEHOUSE
BOISE, IDAHO 83720
(208) 334-4440
CERTIFIED MAIL

138915

Prudential Leasing Co.
155 East 3300 South
Salt Lake City, UT 84115

P R O O F D U E N O T I C E

J U N E 30, 1984

DEAR PERMIT HOLDER:

ONE OF THE CONDITIONS OF APPROVAL OF YOUR WATER PERMIT NO. 37-7865 WAS THAT PROOF OF THE EXTENT OF YOUR BENEFICIAL USE MUST BE SUBMITTED TO THIS OFFICE ON OR BEFORE SEPTEMBER 01, 1984. (SEE LAST PAGE OF YOUR APPROVED PERMIT OR YOUR LAST APPROVED EXTENSION REQUEST). ENCLOSED IS A POSTCARD WHICH MAY BE USED TO SUBMIT THE REQUIRED PROOF.

IF YOU HAVE NOT FULLY COMPLETED YOUR PROJECT, AND YOU OR A PREVIOUS OWNER OF THIS PERMIT HAVE NOT RECEIVED A PRIOR EXTENSION OF TIME, YOU MAY REQUEST AN EXTENSION OF TIME IF THE DELAY IS FOR REASONABLE CAUSE AS PROVIDED IN SECTION 42-204, IDAHO CODE. IF YOU HAVE BEEN PREVENTED FROM PROCEEDING BY A GOVERNMENTAL AGENCY OR BY LITIGATION, MORE THAN ONE EXTENSION OF TIME CAN BE GRANTED. AN EXTENSION OF TIME REQUEST FORM IS ENCLOSED FOR YOUR CONVENIENCE.

EITHER THE BENEFICIAL USE POSTCARD OR A REQUEST FOR AN EXTENSION OF TIME MUST BE RECEIVED BY THIS DEPARTMENT ON OR BEFORE THE ABOVE DESCRIBED PROOF DUE DATE. IF NEITHER IS RECEIVED, THE DEPARTMENT WILL SEND YOU A LAPSE NOTICE. WITHIN SIXTY (60) DAYS OF THE MAILING OF THE LAPSE NOTICE, THE PERMIT WILL NO LONGER BE OF ANY FORCE NOR EFFECT.

SINCERELY,

RITA FLECK
SECRETARY/RECORDS MANAGER

ENCLOSURES

RECORDED
INDEXED

June 15, 1984

RE: Permit Nos. 37-7857, 37-7865 & 37-7922

Prudential Leasing Co.
155 East 3300 South
Salt Lake City, UT 84115

Dear Permit Holder:

This office acknowledges receipt of the Assignment of the above referenced permits to you.

Enclosed for your records are copies of the permits. Be sure to note the special conditions of approval on the fourth pages that identify requirements necessary for developing the permits into licensed water rights.

If you have any questions on this matter, please feel free to contact us.

Sincerely,

KAY WALKER
Chief Clerk

KW:sc
Enclosures

MICROFILMED

Permit No. 37-7865

ASSIGNMENT REVIEW CHECK LIST

1. Signature of Permit Holder? ✓
2. Notary? ✓
3. a. Full Assign?
b. Partial Assign?
4. "No assignment" condition on permit? yes - ok
5. Commencement of works received? - yes
6. Affidavit of Residency required? yes - rec'd

1. Type Permit Summary sheet ✓
2. Coding sheet ✓
3. Acknowledgement letter type | p
4. Copy to region ✓

Date: 6-13-84

Employee

Employee: Ray Walker

100-443887-100

LAW OFFICES OF
ROOKER, LARSEN, KIMBALL & PARR
A PROFESSIONAL CORPORATION

SUITE 1300
185 SOUTH STATE STREET
SALT LAKE CITY, UTAH 84111
TELEPHONE (801) 532-7840

C. KEITH ROOKER
KENT W. LARSEN
DALE A. KIMBALL
CLAYTON J. PARR
STEPHEN G. CROCKETT
DOUGLAS J. PARRY
DAVID E. GEE
CLARK WADDOWS
ROBERT J. GROW
ROBERT A. JOHNSON
SCOTT W. LOVELESS
JAMES E. CANNON
PATRICIA W. CHRISTENSEN
DAVID K. REDD
ROBERT G. HOLT

JAMES C. SWINDLER
ROBERT B. LOCKHEAD
STEPHEN J. HULL
GARY A. DODGE
JAMES D. GORDON III
BRIAN C. JOHNSON
ROBERT S. CLARK
THOMAS B. GREEN
RICHARD D. CLAYTON
PAUL D. ELLSWORTH
JONATHAN M. RUGA
MICHAEL M. LATER
CAROLYN B. McHUGH
VICTOR A. TAYLOR

OF COUNSEL
MAAK & MAAK
CHARLES L. MAAK
BRUCE A. MAAK

RECEIVED
JUN 8 1984

June 5, 1984

Department of Water Resources

Mr. Jim Johnson
Water Distribution Supervisor
State of Idaho
Department of Water Resources
State House
Boise, ID 83720

RE: Permit Nos. 37-7857, 37-7865 and 37-7922

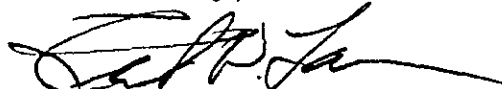
Dear Mr. Johnson:

Pursuant to your letter of May 25, 1984 concerning the above mentioned Permits, I am enclosing the following:

1. The copy of the Assignment of Permits which you sent to us.
2. Three Affidavits for Water Rights which have been executed on behalf of Prudential Leasing Company.
3. A copy of a Certificate of Authority issued by the Idaho Secretary of State concerning the authority of Prudential Leasing Company to transact business in Idaho.

If you require any additional information or documents with respect to the Agreements or the Permits, I would appreciate your calling me.

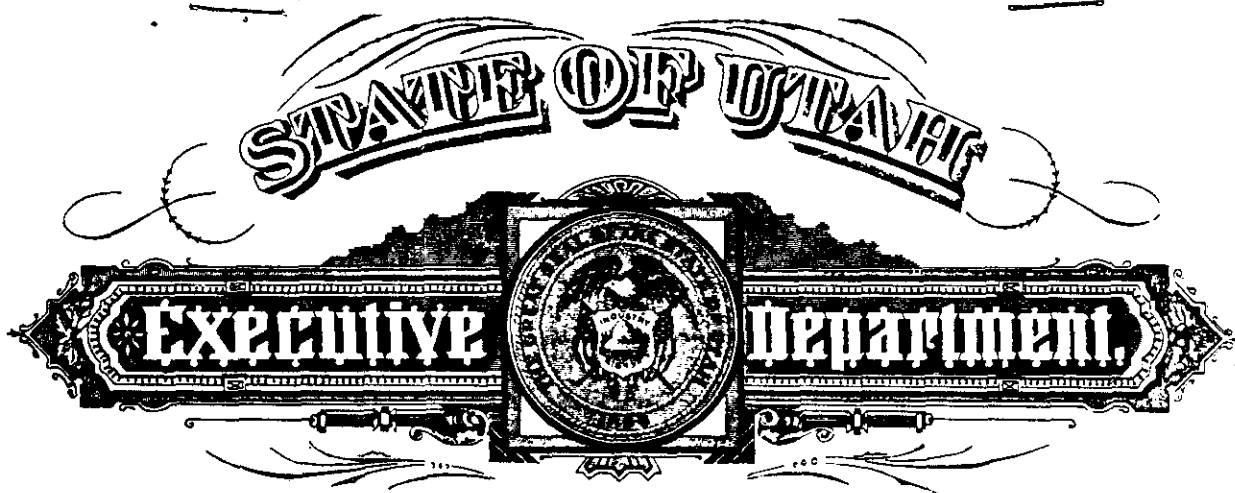
Sincerely,



Kent W. Larsen

KWL:kh
Enclosures: 7

RECEIVED
JUN 13 1984



Office of the Lieutenant Governor

CERTIFICATE OF INCORPORATION

OF

PRUDENTIAL LEASING COMPANY

I, DAVID S. MONSON, LIEUTENANT GOVERNOR OF THE STATE OF UTAH, HEREBY CERTIFY THAT DUPLICATE ORIGINALS OF ARTICLES OF INCORPORATION FOR THE INCORPORATION OF

PRUDENTIAL LEASING COMPANY

DULY SIGNED AND VERIFIED PURSUANT TO THE PROVISION OF THE UTAH BUSINESS CORPORATION ACT, HAVE BEEN RECEIVED IN MY OFFICE AND ARE FOUND TO CONFORM TO LAW.

ACCORDINGLY, BY VIRTUE OF THE AUTHORITY VESTED IN ME BY LAW, I HEREBY ISSUE THIS CERTIFICATE OF INCORPORATION OF

PRUDENTIAL LEASING COMPANY

AND ATTACH HERETO A DUPLICATE ORIGINAL OF THE ARTICLES OF INCORPORATION. 103530.



IN TESTIMONY WHEREOF, I have hereunto
set my hand and affixed the Great Seal of the
State of Utah, at Salt Lake City, this 25 day
of APRIL, 19 83

David S. Monson

*not for
Idaho*

MICROFILMED



State of Idaho
DEPARTMENT OF WATER RESOURCES
STATE OFFICE, 450 W. State Street, Boise, Idaho

JOHN V. EVANS
Governor

A. KENNETH DUNN
Director

Mailing address:
Statehouse
Boise, Idaho 83720
(208) 334-4440

May 25, 1984

RE: Permit Nos. 37-7857, 37-7865 & 37-7922

Kent W. Larsen
185 S. State Street, Suite 1300
Salt Lake City, UT 84111

Dear Mr. Larsen:

We are in receipt of the Assignment of Permit form whereby Vernon S. Ravenscroft, Harriet B. Ravenscroft and Bonneville Pacific Corp. assigned to Prudential Leasing Company their right, title and interest in the above referenced permits.

Please be advised, however, that this assignment has not fulfilled the requirements of Sections 42-207 through 42-210, Idaho Code. The provisions of Section 42-207, Idaho Code, require that the Director of the Department of Water Resources receive the assignment together with a statement that the assignee is a bonafide resident of the State of Idaho or a statement that a corporation is qualified to do business in and under the laws of the State of Idaho.

This statement was not received with the assignment document and therefore, the Department cannot yet accept the assignment as a document changing the ownership of the above mentioned permits from Vernon Ravenscroft and Bonneville Pacific Corp. to Prudential Leasing Company.

The said assignments are being returned for each of the permits and enclosed are three blank affidavit of residency forms which should be filled out by a representative of Prudential Leasing Company.

Once these forms have been completed, please return them with the assignment of permit forms and the Department will then be able to formally acknowledge that all requirements for changing ownership of said permits have been fulfilled.

RECEIVED

Kent W. Larsen
May 25, 1984
Page 2

If you have any questions on this matter, please let us know.

Sincerely,

JIM JOHNSON
Water Distribution Supervisor

JJ:sc

Enclosures

04/25/84

LAW OFFICES OF
ROOKER, LARSEN, KIMBALL & PARR
A PROFESSIONAL CORPORATION

C. KEITH ROOKER
KENT W. LARSEN
DALE A. KIMBALL
CLAYTON J. PARR
STEPHEN G. CROCKETT
DOUGLAS J. PARRY
DAVID E. GEE
CLARK WADDUPS
ROBERT J. GROW
ROBERT A. JOHNSON
SCOTT W. LOVELESS
JAMES E. CANNON
PATRICIA W. CHRISTENSEN
DAVID K. REDD
ROBERT G. HOLT

JAMES C. SWINDLER
ROBERT S. LOCHHEAD
STEPHEN J. HULL
GARY A. DODGE
JAMES D. GORDON III
BRIAN C. JOHNSON
ROBERT S. CLARK
THOMAS S. GREEN
RICHARD D. CLAYTON
PAUL D. ELLSWORTH
JONATHAN M. RUGA
MICHAEL M. LATER
CAROLYN B. McHUGH
VICTOR A. TAYLOR

SUITE 1300
185 SOUTH STATE STREET
SALT LAKE CITY, UTAH 84111
TELEPHONE (801) 532-7840

OF COUNSEL
MAAK & MAAK
CHARLES L. MAAK
BRUCE A. MAAK

RECEIVED
MAY 21 1984

Department of Water Resources

May 17, 1984

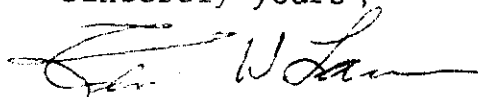
State of Idaho
Department of Water Resources
State Office
450 West State Street
Bosie, Idaho 83720

re: Water Permit No.'s 37-7857, 37-7865, 37-7922

Gentlemen:

Enclosed is an original executed copy of an Assignment of Permit whereby Vernon S. Ravenscroft, Harriet B. Ravenscroft and Bonneville Pacific Corporation assigned to Prudential Leasing Company their interest in Permit No.'s 37-7857, 37-7865, 37-7922. This Assignment has been made solely for security purposes to secure payment of a loan made by Prudential Leasing Company to the assignors. Please note in your records the interest of Prudential Leasing Company in these Permits.

Sincerely yours,



Kent W. Larsen

cc: Craig B. Terry Esq.

KL/mbk

67-123000

April 19, 1984

Consulting Associates, Inc.
P. O. Box 893
Boise, ID 83701

Dear ~~Mr.~~ Ravenscroft:

Re: Permit Nos. 37-7857, 37-7865 and 37-7922

This office acknowledges receipt of your letter dated April 18, 1984 in which you advise that construction of the diverting works under the above-referenced permits was started in compliance with provisions of Section 42-204, Idaho Code. A copy of your letter will be made a part of each of the above-referenced water right files.

Sincerely,

L. GLEN SAXTON
Chief, Operations Bureau

LGS:rf

cc: Bonneville Pacific Corp.

MICROFILMED



Consulting Associates, Incorporated

BOISE OFFICE
VERNON RAVENSCROFT
HELEN CHENOWETH

PHONE (208) 345-2670
P.O. BOX 863
BOISE, IDAHO 83701

April 18, 1984

RECEIVED

APR 19 1984

Mr. Glen Saxton
IDAHO DEPT. OF WATER RESOURCES
Statehouse Mail
Boise, ID 83720

Department of Water Resources

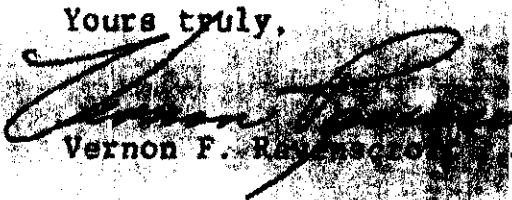
RE: Water Permit No. 37-7857, 7865, 7922

Dear Mr. Saxton:

The purpose of this letter is to advise the State of Idaho Department of Water Resources that construction of the diverting works contemplated by Permit Nos. 37-7857, 37-7865, and 37-7922 was commenced on January 12, 1983, and was substantially completed on December 23, 1983. As you can see, the commencement of construction occurred prior to the deadline of August 9, 1983, contemplated by Section 42-204 of the Idaho Statutes.

I request that you send to me a letter acknowledging your receipt of this letter. Please indicate in such letter that Mr. & Mrs. Ravenscroft and Bonneville Pacific Corporation have now complied with the requirements of Permit No. 37-7857, 7865, and 7922.

Yours truly,


Vernon F. Ravenscroft

VFR:sh

cc: Bonneville Pacific

RECEIVED



State of Idaho
DEPARTMENT OF WATER RESOURCES
STATE OFFICE, 450 W. State Street, Boise, Idaho

JOHN V. EVANS
Governor

A. KENNETH DUNN
Director

Mailing address:
Statehouse
Boise, Idaho 83720
(208) 334-4440

February 13, 1984

Prudential Leasing Co.
155 East 3300 South
Salt Lake City, UT 84115

Attention: Larry Stevens

RE: Assignment of Water Permit Nos. 37-7857, 37-7865 & 37-7922

Gentlemen:

The purpose of this letter is to clarify the first paragraph of the Department's February 7, 1984 letter in connection with the above referenced permits.

The first paragraph of the February 7, 1984 letter should read as follows:

"The purpose of this letter is to confirm that the State of Idaho Department of Water Resources has previously approved the assignment of Water Permit Nos. 37-7857, 37-7865 and 37-7922 (hereafter referred to as the "permits") from Vernon Ravenscroft to Vernon F. Ravenscroft and Harriett B. Ravenscroft and Bonneville Pacific Corporation. Such assignment is valid and has been confirmed as reflected in the attached letter dated January 28, 1983."

Also, enclosed is a copy of my February 7, 1984 letter to Vernon F. Ravenscroft, Harriett B. Ravenscroft and Bonneville Pacific Corp. clarifying the season of use for permit 37-7865.

If this office can be of further assistance, please contact us.

Sincerely,

L. GLEN SAXTON
Chief, Operations Bureau

LGS:sc

Enclosure

cc: Craig B. Terry

RECEIVED
FEB 14 1984

February 7, 1984

Prudential Leasing Company
155 East 3300 South
Salt Lake City, UT 84115

Attention: Larry Stevens

Gentlemen:

Re: Assignment of Water Permit Nos. 37-7857, 37-7865 and 37-7922

The purpose of this letter is to confirm that the State of Idaho Department of Water Resources has previously approved the assignment of Water Permit Nos. 37-7857, 37-7865 and 37-7922 (hereinafter referred to as the "permits") from Vernon Ravenscroft and Bonneville Pacific Corporation. Such assignment is valid and has been confirmed as reflected in the attached letter dated January 28, 1983.

This office has been advised that in connection with certain financing to be obtained by Vernon Ravenscroft, Harriet B. Ravenscroft and Bonneville Pacific Corporation, Mr. and Mrs. Ravenscroft and Bonneville Pacific Corporation intend to assign to Prudential Leasing Company as collateral security their rights under the permits. This letter shall confirm to Prudential Leasing Company that the collateral assignment by Mr. and Mrs. Ravenscroft and Bonneville Pacific Corporation to Prudential Leasing Company of their rights under the permits will not affect the validity of the permits for the continued use thereof by Mr. and Mrs. Ravenscroft and Bonneville Pacific Corporation assuming Prudential Leasing Company is qualified to do business under the laws of the State of Idaho. An original of the assignment together with evidence showing Prudential's qualifications to do business in Idaho should be filed with the Department of Water Resources before the Department will consider Prudential Leasing Company to be the owner of the permit.

I would like to point out that Permit No. 37-7857 is subject to the provisions of Section 42-204, amended in 1982, which requires the start of construction of the diverting works within one (1) year of permit issuance unless the permit holder is interrupted by circumstances over which he has no control. Since Permit No. 37-7857 was issued on August 9, 1982 and the file

RECEIVED

February 7, 1984

does not show that construction work has started, a letter for the Department's file addressing this issue is appropriate. I have enclosed a copy of Section 42-204 for your information.

Please feel free to contact this office if you have questions.

Sincerely,

NORMAN C. YOUNG

Enclosures 2

cc: Craig B. Terry

RECEIVED



State of Idaho

DEPARTMENT OF WATER RESOURCES

STATE OFFICE, 450 W. State Street, Boise, Idaho

JOHN V. EVANS

Governor

A. KENNETH DUNN

Director

Mailing address:

Statehouse

Boise, Idaho 83720

(208) 334-4440

February 7, 1984

Vernon F. Ravenscroft
Harriett B. Ravenscroft
Bonneville Pacific Corporation
200 East South Temple, Suite 310
Salt Lake City, UT 84111

Gentlemen:

Re: Water Permit No. 37-7865

The purpose of this letter is to confirm that Permit No. 37-7865, a copy of which is attached hereto, permits the use of water from January 1 to December 31 (both dates inclusive). A typographical error appears on the face of Permit No. 37-7865, which incorrectly indicates that the water may be used from January 1 to December 1 (both dates inclusive).

Sincerely,

L. Glen Saxton
L. GLEN SAXTON
Chief, Operations Bureau

LGS:rf

Enclosure

MICROFILMED

LAW OFFICES OF
PARSONS, BEHLE & LATIMER

A PROFESSIONAL CORPORATION

185 SOUTH STATE STREET, SUITE 700
POST OFFICE BOX 11898
SALT LAKE CITY, UTAH 84147
TELEPHONE (801) 532-1234
TELECOPIER (801) 521-9868

1101 SIXTEENTH STREET, N.W.
WASHINGTON, D.C. 20036
TELEPHONE (202) 659-0862

FORMERLY
DICKSON, ELLIS, PARSONS & McCREA
1882-1959

C.C. PARSONS
1907-1968

CALVIN A. BEHLE
1947-

OF COUNSEL
GEORGE W. LATIMER
CONSTANCE K. LUNDBERG

VAL R. ANTCHAK
PATRICK J. GARVER
SPENCER E. AUSTIN
JOHN B. WILSON
ROBERT C. HYDE
CRAIG B. TERRY
DAVID A. ANDERSON
KENT O. ROCHE
PATRICIA J. WINMILL
JAN R. BENSON
RANDY M. GRIMSHAW
J. STEPHEN RUSSELL
T. PATRICK CASEY
ALICE L. HEARST
HENRY D. MARSH
D. R. CHAMBERS
BYRON W. MILSTEAD
LOIS A. BAAR
JAMES E. MORTON
MICHAEL L. LARSEN
JONATHAN K. BUTLER
SUSAN R. POULTER

KEITH E. TAYLOR
JAMES B. LEE
JOHN A. DAHLSTROM
GORDON L. ROBERTS
F. ROBERT REEDER
WILLIAM L. CRAWFORD
LAWRENCE E. STEVENS
DANIEL M. ALLRED
HOWARD J. MARSH
YAN M. ROSS
ERIE V. BOORMAN
DAVID S. DOLOWITZ
KENT W. WINTERHOLLER
KATHLENE W. LOWE
BARBARA K. POLICH
RANDY L. DRYER
CHARLES H. THRONSON
DAVID R. BIRD
RAYMOND J. ETCHEVERRY
FRANCIS M. WIKSTROM
DAVID W. TUNDERMANN
KREGE B. CHRISTENSEN
JAMES M. ELEGANTE
DAVID P. HIRSCHI

January 27, 1984

Mr. Norman C. Young,
Administrator
Resources Administration Division
State of Idaho
Department of Water Resources
Statehouse
Boise, Idaho 83720

Re: Water Permits Nos. 37-7857, 37-7865 and 37-7922

Dear Mr. Young:

Pursuant to our telephone conversation, I am enclosing a draft of a letter requested by Vernon F. Ravenscroft, Harriett B. Ravenscroft and Bonneville Pacific Corporation in connection with certain financing being obtained by said parties from Prudential Leasing Company. Please return to me at your earliest convenience a letter in the form attached hereto on State of Idaho, Department of Water Resources letterhead. If you have any problems with any of the statements contained in the attached letter, please telephone me so that we may discuss them.

Also enclosed is a draft of a letter regarding the typographical error that appears on Permit No. 37-7865. If you find this letter to be acceptable, please cause it to be prepared on State of Idaho, Department of Water Resources letterhead and return it to me.

CEATT 1/27/84

State of Idaho
Department of Water Resources
January 27, 1984
Page 2

Thank you very much for your cooperation in connection
with this request.

Very truly yours,

Craig B. Terry

Craig B. Terry
of and for
PARSONS, BEHLE & LATIMER

CBT/mp
enc
4422M

1984



34274365

CONSIGNEE

FORWARDER AIRBILL NO.



A 3 4 2 7 4 3 6 5

DEST. N.	DATE
B01	1/27
PIECES	WEIGHT
1	0.1

SHIPPER'S ACCOUNT NO.

SHIPPER'S REFERENCE

ORIGIN

923-0110

0972.2

SLC

FROM (SHIPPER) SENT BY:

PARKS PEOPLE AND LATIMER

Craig B. Terry

12500 STATE

SALT LAKE CITY, UT

84115

PLEASE USE FULL ADDRESSES
NO. P.O. BOX

TELEX/PHONE

180115321234

TO (CONSIGNEE) ATTN. OF:

Mr. Norman C. Young, Administrator
Resources Administration Division
Idaho State Dept. of Water Resources
Statehouse

Boise, Idaho

83720

TELEX/PHONE

SERVICE

CHARGE

WEIGHT

SMALL PARCEL
EXPRESS

HANDLING

VISA PAK

FOR INTERNATIONAL
SMALL PARCEL EXPRESSTOTAL DECLARED
VALUE(FOR CUSTOMS
PURPOSES ONLY)

ONFWD

DUTY

OTHER

INSUR

TOTAL

Legal Documents

MICROFILMED

34274365

INSURANCE: DO YOU REQUIRE
INSURANCE COVERAGE?

YES

☐

NO

☐INSURED
AMOUNT*

* NOT TO EXCEED \$10,000 OR EQUIVALENT

THIS IS A NON-NEGOTIABLE AIRBILL SUBJECT TO THE TERMS AND CONDITIONS SET FORTH ON THE REVERSE OF SHIPPER'S COPY. IN TENDERING THIS SHIPMENT, SHIPPER AGREES THAT DHL SHALL NOT BE LIABLE FOR SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING FROM THE CARRIAGE HEREOF. DHL DISCLAIMS ALL WARRANTIES, EXPRESS OR IMPLIED, WITH RESPECT TO THIS SHIPMENT. THE LIABILITY OF DHL FOR ANY LOSS OR DAMAGE SHALL BE LIMITED TO US \$100.00. INSURANCE COVERAGE IS AVAILABLE UPON SHIPPER'S REQUEST AND PAYMENT THEREFOR.

SHIPPER'S
SIGNATURE XI WARRANT THAT ALL DETAILS GIVEN HEREIN
ARE TRUE AND CORRECT.

PICKED UP BY DHL - NAME

DATE

TIME

AM
PMMETHOD
OF
PAYMENT☐ CASH☐ CHECK☐ BILL
RECIPIENT☐ CREDIT CARD
NUMBER →VISA ☐AMEX ☐MASTER ☐EXPIRY
DATECONSIGNEE'S
SIGNATURE

RECEIVED IN GOOD ORDER AND CONDITION

PLEASE PRINT NAME

DATE

TIME

AM
PM

COPYRIGHT © DHL AIRWAYS, INC. 1982, 1983

FOLD HERE

FORWARDER AIRBILL - NON NEGOTIABLE

January 28, 1983

David P. Hirschi
Parsons, Behle & Latimer
185 S. State St.
Box 11898
Salt Lake City, UT 84147

Re: Assignment of Permits Nos. 37-7857, 37-7865 and 37-7922

Dear Mr. Hirschi:

The purpose of this letter is to confirm our telephone conversation of this date in which I indicated that we have indeed received all the documentation that we need to process the assignment of the above-referenced permits from Vernon Ravenscroft to Vernon Ravenscroft and Harriett B. Ravenscroft and Bonneville Pacific Corporation. Please consider the assignment to be valid and confirmed.

Sincerely,

DAVID R. TUTTILL, JR., P.E.
Supervisor, Water Allocation Section

DRT:ac

cc: Vernon Ravenscroft

UNRECORDED

January 19, 1983

David P. Hirschi
Parsons, Behle & Latimer
185 S. State St.
Box 11898
Salt Lake City, UT 84147

Re: Assignment of Permits Nos. 37-7857, 38-7865 and 37-7922 in the name
of Vernon Ravenscroft

Dear Mr. Hirschi:

This office has reviewed your letter dated November 23, 1982, and the associated proposed Assignment of Water Rights, relating to the above-referenced permits.

At this time, the proposed assignment as drafted appears to be acceptable. Our file contains evidence that the Bonneville Pacific Corporation has registered with the office of the Secretary of State. Therefore, the corporation is qualified to do business in Idaho, and as such can complete and return the enclosed Form 205/206 when the assignment is submitted. If the Assignment has not yet been signed, you may want to consider modification of item 4(a) on page 2, which appears to prematurely state that all conditions of the permit have already been met.

If you wish to discuss the assignment procedure, please feel free to contact me.

Sincerely,

Per telecon on

DAVID R. TUTHILL, JR., P.E.
Supervisor, Water Allocation Section

DRT:ac

Enclosure

cc: Vernon Ravenscroft

MICROFILMED

POOR QUALITY ORIGINAL

November 30, 1982

Ravenscroft Ranch Hydro Electric Project
c/o Vernon F. Ravenscroft
P. O. Box 893
Boise, ID 83701

Bonneville Pacific Corporation
200 East South Temple, Suite 310
Salt Lake City, UT 84111

Gentlemen:

The Department of Water Resources has reviewed the proposed Assignment of Water Rights and Permits pertaining to Permit Nos. 37-7837, 37-7805 and 37-7922, as amended, relating to the Ravenscroft Ranch Hydro Electric Project in Gooding County, Idaho.

You have filed the information required under Sections 42-206 and 42-207, Idaho Code, and the Director of the Department of Water Resources is satisfied that you have complied with the requirements of said sections.

Very truly yours,

NORMAN C. YOUNG
Administrator
Resources Administration Division

NCY:alw

MICROFILMED

RECEIVED
NOV 23 1982

LAW OFFICES OF
PARSONS, BEHLE & LATIMER

A PROFESSIONAL CORPORATION

185 SOUTH STATE STREET
POST OFFICE BOX 11898
SALT LAKE CITY, UTAH 84147
TELEPHONE (801) 532-1234
TELECOPIER (801) 521-9868

1101 SIXTEENTH STREET, N.W.
WASHINGTON, D.C. 20036
TELEPHONE (202) 659-0862

FORMERLY
DICKSON, ELLIS, PARSONS & McCREA
1882-1959

KEITH E. TAYLOR
JAMES B. LEE
JOHN A. DAHLSTROM
GORDON L. ROBERTS
F. ROBERT REEDER
WILLIAM L. CRAWFORD
CONSTANCE K. LUNDBERG
LAWRENCE E. STEVENS
DANIEL M. ALLRED
HOWARD J. MARSH
YAN M. ROSS
ERIE V. BOORMAN
DAVID S. DOLOWITZ
KENT W. WINTERHOLLER
KATHLENE W. LOWE
BARBARA K. POLICH
RANDY L. DRYER
CHARLES H. THRONSON
DAVID R. BIRD
RAYMOND J. ETCHEVERRY
FRANCIS M. WIKSTROM
DAVID W. TUNDERMANN*
KREGE B. CHRISTENSEN
JAMES M. ELEGANTE
DAVID P. HIRSCHI

C.C. PARSONS
1907-1968

CALVIN A. BEHLE
1947-

OF COUNSEL
GEORGE W. LATIMER
WAYNE OWENS

Department of State
VAL R. ANTOSZAK
PATRICK J. GARVER
SPENCER E. AUSTIN
JOHN B. WILSON
ROBERT C. HYDE
CRAIG B. TERRY
DAVID A. ANDERSON
KENT O. ROCHE
PATRICIA J. WINMILL
MARY BETH WALZ
JAN P. BENSON
MICHAEL D. DAZEY
RANDY M. GRIMSHAW
JOHN F. WALDO
J. STEPHEN RUSSELL
DANIEL W. HINDERT
T. PATRICK CASEY
ALICE L. HEARST
HENRY D. MARSH
D. R. CHAMBERS
BYRON W. MILSTEAD
MICHAEL M. LATER
THOMAS J. MCCORMICK
LOIS A. BAAR

*ADMITTED IN WASHINGTON, D.C. ONLY

November 23, 1982

Norman C. Young, Administrator
Dept. of Water Resources
State House
Boise, Idaho 83720

Re: Ravenscroft Ranch Hydro-Electric Project -
Assignment of Water Rights

Dear Norman:

Enclosed herewith please find a proposed Assignment of Water Rights relating to the Ravenscroft Ranch Hydro-Electric Project to be located in Gooding, Idaho.

Bonneville Pacific Corporation has made application for Certificate of Authority and hopefully will receive the same within the near future. Conditioned upon Bonneville Pacific Corporation becoming qualified to do business in the State of Idaho, we will appreciate your review and approval of the enclosed Assignment for use in our formation of the Joint Venture during the first week of December, 1982.

Please contact me with your questions or comments at your earliest convenience. I will likely be in Boise commencing

MICROFILMED

Norman C. Young, Administrator
November 23, 1982
Page Two

November 29, 1982 until such time as the Joint Venture is in place. You can contact me in Boise through Michael Chaney at Idaho First National Bank, telephone No. 383-7334.

Very truly yours,

PARSONS, BEHLE & LATIMER


David P. Hirschi

DPH:dk

Enclosure

cc: Bonneville Pacific Corp. (w/encl.)
Vernon F. Ravenscroft (w/encl.)
Phillip J. Rassier (w/encl.)



ASSIGNMENT OF WATER RIGHTS AND PERMITS

This Assignment, made and entered into this ____ day of _____, 1982, by and between VERNON F. RAVENSCROFT and HARRIETT B. RAVENSCROFT, husband and wife, hereinafter referred to as "Assignors", and BONNEVILLE PACIFIC CORPORATION, a Utah corporation qualified to do business in the State of Idaho, and VERNON F. RAVENSCROFT and HARRIETT B. RAVENSCROFT, as "Assignees,"

W I T N E S S E T H:

WHEREAS, Assignors have obtained approved Permits for the use of water resources in the State of Idaho, Permit Nos. 37-7857, 37-7865 and 37-7922, hereinafter referred to as "Permits," copies of which are attached hereto as Schedule I and by this reference made a part hereof; and

WHEREAS, in connection with that certain Joint Venture Agreement between Assignors and Assignees, of even date herewith and incorporated herein by this reference, Assignors desire hereby to assign to Assignees all of their right, title and interest in and to said Permits for the purpose of holding said Permits for and on behalf of said Joint Venture.

NOW, THEREFORE, for TEN DOLLARS (\$10.00) and other good and valuable consideration, the receipt and adequacy of which are hereby acknowledged, the parties hereto agree as follows:

[Handwritten signature]

1. Assignors hereby assign to Assignees all of their right, title and interest in and to said Permits as contained in Schedule I attached hereto to hold for and on behalf of the said Joint Venture during the entire term of the Joint Venture.

2. Assignees hereby accept the assignment of said Permits as contained in Schedule I attached hereto in accordance with the terms hereof.

3. Assignees agree to allow the rights and interests referred to in said Permits to be used in connection with that certain Joint Venture Agreement, of even date herewith, between Assignors and Assignees.

4. That to induce the Assignees to accept this Assignment and the rights and obligations pursuant thereto, the Assignors hereby represent to the Assignees as follows:

(a) That the Assignors have duly performed all of the conditions presently required under said Permits;

(b) That said Permits are in full force and effect;

(c) That upon approval by the Department of Water Resources, State of Idaho, said Permits are assignable; and

(d) That Assignors agree to defend, indemnify and hold Assignees harmless from and against any loss, cost, expense, cause of action, claim or fee, including reasonable attorneys fees, which may be incurred by Assignees in connection with this Assignment provided any such loss or fee is not the result of and breach or negligence on the part of Assignees.

MICROFILMED

5. That in consideration of the Assignors' executing and delivering this Assignment, the Assignees covenant with the Assignors as follows:

(a) That the Assignees will duly keep, observe and perform all of the terms, conditions and provisions of said Permits that are to be kept, observed and performed by the Assignors;

(b) That Assignees will not further assign the rights or Permits conveyed hereunder without the prior written consent of Assignors and the prior written consent of the Director or Administrator of the Department of Water Resources, State of Idaho; and

(c) That at the end of the Joint Venture Term as defined in the Joint Venture Agreement, Assignees will assign the Permits to Assignors and this Agreement shall thereafter be null and void.

IN WITNESS WHEREOF, the parties hereunto set their hands the day and year first above written.

ASSIGNORS:

VERNON F. RAVENSCROFT

HARRIETT B. RAVENSCROFT

RECEIVED

ASSIGNEES:

BONNEVILLE PACIFIC CORPORATION

By _____
Its _____

VERNON F. RAVENSCROFT

HARRIETT B. RAVENSCROFT

RECEIVED
JAN 10 1964

SCHEDULE I



CONFIDENTIAL



State of Idaho
DEPARTMENT OF WATER RESOURCES
STATE OFFICE, 450 W. State Street, Boise, Idaho

JOHN V. EVANS
Governor

A. KENNETH DUNN
Director

Mailing address:
Statehouse
Boise, Idaho 83720
(208) 334-4440

RECEIVED
AUG 20 1982

August 18, 1982

RE: Permit Nos. 37-7857, 37-7865 and 37-7922

Vernon Ravenscroft
P.O. Box 893
Boise, ID 83701

Dear Mr. Ravenscroft:

Enclosed are copies of your approved applications for permit. We direct your attention to the conditions of approval on the fourth pages.

Be sure to note the special condition requiring you to install a measuring device and lockable controlling works that will enable the watermaster to control your rate of diversion.

The 1982 Idaho Legislature added a requirement that as a permit holder you must commence the excavation or construction of diverting works within one year of the date the permit was issued, and must proceed diligently until the project is completed. The enclosed blue cards must be completed and returned to this office as soon as you commence construction, no later than one year from the date the permit was approved.

We have enclosed a form entitled "Making Proof of Beneficial Use". Please read the instructions carefully since you must take further action to develop these permits into licenses.

Sincerely,

DAVID R. TUTHILL, JR., P.E.
Supervisor, Water Allocation Section

DRT:kw
Enclosures

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
APPLICATION FOR PERMIT

Date: 10/30/8

APPROVED

To appropriate the public waters of the State of Idaho

1. Name of applicant Vernon F. Ravenscroft Phone 345-2670

Post office address P.O. Box 893, Boise, ID 83701

2. Source of water supply Malad River which is a tributary of Snake River

3. Location of point of diversion is SE $\frac{1}{4}$ of SE $\frac{1}{4}$ of Section 29 Township 6-S

Range 14E B.M. Gooding County, additional points of diversion if any: _____

Product of irrigation drainage from Shoestring district which enters natural dry bed in NW $\frac{1}{4}$ NE $\frac{1}{4}$ Section 32-Township 6S-Range 14E. See Map.

4. Water will be used for the following purposes:

Amount 130 for Electric Generator purposes from Jan 1 to Dec. 1 (both dates inclusive)
(cfs or acre-feet per annum)

Amount _____ for _____ purposes from _____ to _____ (both dates inclusive)
(cfs or acre-feet per annum)

Amount _____ for _____ purposes from _____ to _____ (both dates inclusive)
(cfs or acre-feet per annum)

Amount _____ for _____ purposes from _____ to _____ (both dates inclusive)
(cfs or acre-feet per annum)

5. Total quantity to be appropriated:

a. 130 cubic feet per second and/or b. _____ acre-feet per annum.

6. Proposed diverting works:

a. Description of ditches, flumes, pumps, headgates, etc. Natural overflow dry bed need cleaned and a control gate established to regulate flow.

b. Height of storage dam none feet, active reservoir capacity _____ acre-feet; total reservoir capacity _____ acre-feet, materials used in storage dam: _____

Period of year when water will be diverted to storage _____ to _____ inclusive.
(Month/Day) (Month/Day)

c. Proposed well diameter is _____ inches; proposed depth of well is _____ feet.

7. Time required for the completion of the works and application of the water to the proposed beneficial use is two years (minimum 1 year - maximum 5 years).

8. Description of proposed uses:

a. If water is not for irrigation:

(1) Give the place of use of water: SW $\frac{1}{4}$ of SW $\frac{1}{4}$ of Section 29 Township 6-S

Range 14-E B.M.

(2) Amount of power to be generated: 275 KW horsepower under 30 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: Electric Generation

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

[illegible]

Total number of acres to be irrigated

c. Describe any other water rights used for the same purposes as described above. Application
pending for 20 C.F.S. made as of September 1980

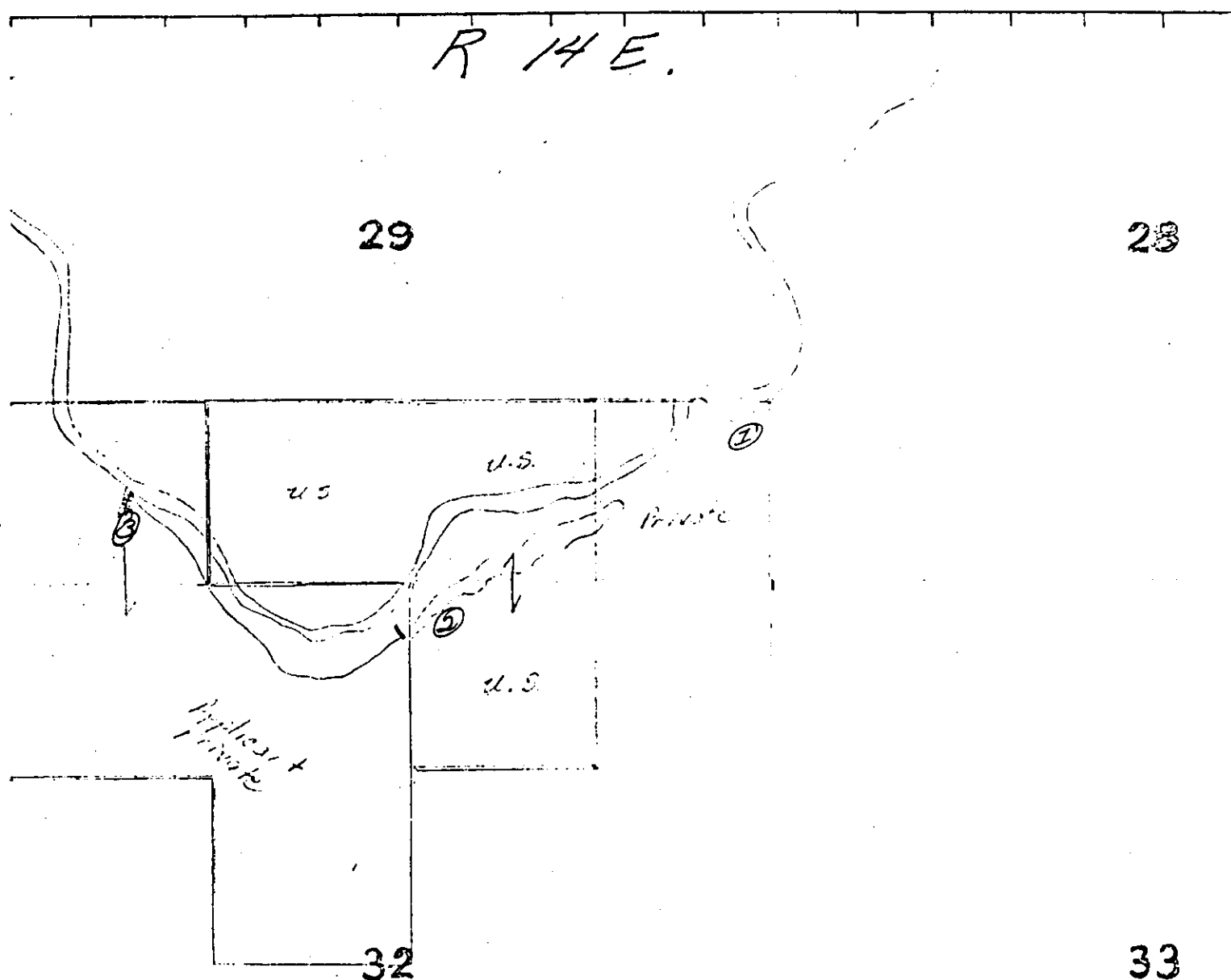
9. a. Who owns the property at the point of diversion Dean Shaeffer, Gooding, ID

b. Who owns the land to be irrigated or place of use Vernon Ravenscroft - Applicant

c. If the property is owned by a person other than the applicant, describe the arrangement enabling the applicant to make this filing Applicant already has a right of way established for livestock water diverted at same point. Additional right of way will be negotiated for this project.

10. Remarks (none)

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



1. Point of diversion
 2. Point of West point drainage ditch entry for added flow
 3. Plant site
- Elevation of diversion 3,329
Aproximate Elevation at proposed generator 3,293

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.

Ernest J. Jernstedt
(Applicant)

Proposed Priority 10/30/1980

Received by macya ab Date 11-4-80 Time 2:30 pm
Preliminary check by _____ Fee \$ 155.00 (1525.00) refunded 150.00
Receipted by macya Date 11/5/80
Publication prepared by macya Date 11/19/80
Published in Gooding County Leader
Publication dates 12/3 + 12/10/80
Publication approved macya Date 11/24/80
Protests filed by: Hagerman Valley Citizens Alert, Inc
Withdrawn 4/30/81

Copies of protests forwarded by _____
Hearing held by BF & LH Date 4/23/81
Recommended for approval denial by SL

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. 37-7865, 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 84.

c. The rate of diversion, if water is to be used for irrigation under this permit, when combined with all other water rights for the same land shall not exceed 0.02 cubic feet per second for each acre of land.

d. Other: A measuring device and lockable controlling works of a type acceptable to the Department shall be permanently installed and maintained as part of the diverting works.

This permit is subject to the provisions of Sections 42-205 through 42-210, Idaho Code, restricting the sale, transfer, assignment, or mortgage of this permit. Failure to comply with these provisions is cause for immediate cancellation of this permit.

This project shall be operated in a manner that will not conflict or interfere with the future diversion of water for irrigation or other beneficial consumption.

The issuance of this permit in no way grants any right-of-way or easement across the land of another.

Use of water under this permit is subject to control by the watermaster of State Water District No. 37, Big Wood River.

This permit does not constitute Idaho Public Utilities Commission or Federal Energy Regulatory Commission approval that may be required.

The proposed rock blasting in the stream should be conducted during low flow periods when the flow of the river does not exceed 50 cfs.

Witness my hand this 9th day of August, 1982.

L. Glen Saxton
Chief, Operations Bureau

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
APPLICATION FOR PERMIT

APPROVED
JUL 3 1981

To appropriate the public waters of the State of Idaho

1. Name of applicant Vernon F. Ravenscroft Phone 345-2670
Post office address (Business Address) P.O. Box 893, Boise, ID 83701
and wastewater tributary of Malad River JJ 3/17/82
2. Source of water supply Malad River which is a tributary of Snake River
3. Location of point of diversion is SE $\frac{1}{4}$ of SE $\frac{1}{4}$ of Section 29 Township 6-S
Range 14E B.M. Gooding County, additional points of diversion if any: Waste water drain North Side Canal Co. in SE $\frac{1}{4}$ - NE $\frac{1}{4}$ Section 32 Township 6-S, Range 14E
4. Water will be used for the following purposes:
Amount 50 cfs for Electric generation purposes from Jan. 1 to Dec. 31 (both dates inclusive)
(cfs or acre-feet per annum)
Amount _____ for _____ purposes from _____ to _____ (both dates inclusive)
(cfs or acre-feet per annum)
Amount _____ for _____ purposes from _____ to _____ (both dates inclusive)
(cfs or acre-feet per annum)
Amount _____ for _____ purposes from _____ to _____ (both dates inclusive)
(cfs or acre-feet per annum)
5. Total quantity to be appropriated:
a. 50 cubic feet per second and/or b. _____ acre-feet per annum.
6. Proposed diverting works: Natural channel to be cleaned to take the flow from present river.
a. Description of ditches, flumes, pumps, headgates, etc. This is a supplemental filing to complete the feasible development initiated in two earlier filings #37-7857 and #37-7865 the diversion will be identical to that described in those f.
b. Height of storage dam none feet, active reservoir capacity _____ acre-feet; total reservoir capacity none acre-feet, materials used in storage dam: _____
Period of year when water will be diverted to storage _____ to _____ inclusive.
(Month/Day) (Month/Day)
c. Proposed well diameter is no inches; proposed depth of well is _____ feet.
7. Time required for the completion of the works and application of the water to the proposed beneficial use is 3 years (minimum 1 year - maximum 5 years).
8. Description of proposed uses:
a. If water is not for irrigation:
(1) Give the place of use of water: SW $\frac{1}{4}$ of SW $\frac{1}{4}$ of Section 29 Township 4S
Range 14E B.M.
(2) Amount of power to be generated: 150 KW horsepower under 43 feet of head.
(Total combined installed capacity - 600 KW.)
(3) List number of each kind of livestock to be watered _____
no
(4) Name of municipality to be served no, or number of families to be supplied with domestic water _____
(5) If water is to be used for other purposes describe: no

RECEIVED

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

Not irrigation

TWP	RANGE	SEC.	NE¼				NW¼				SW¼				SE¼				TOTALS
			NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	

Total number of acres to be irrigated _____

c. Describe any other water rights used for the same purposes as described above. Two earlier
filings described in #6A previous.

9. a. Who owns the property at the point of diversion Mr. Dean Shaffer

b. Who owns the land to be irrigated or place of use Applicant

c. If the property is owned by a person other than the applicant, describe the arrangement enabling the applicant to make this filing I have negotiated an option for a
permanent easement for right-of-way at point of diversion.

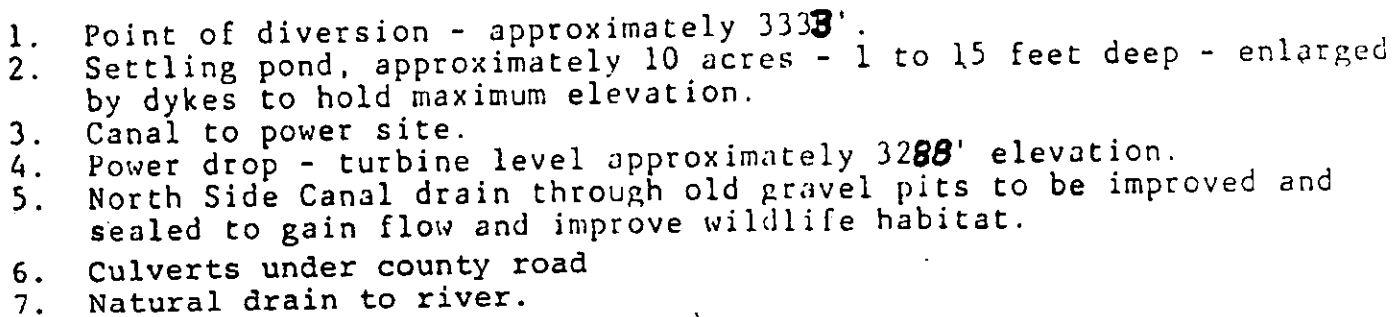
10. Remarks Check for \$725⁰⁰ attached

20 C.F.S. --- \$425.00

30 extra C.F.S. -- 300.00

\$725.00

Range 14 E



Vernon J. Ravencroft
(Applicant)

Proposed Priority 7/10/1981

Received by maria Date 7/10/81 Time 3:01 pm
Preliminary check by LH Fee \$ 125.00
Received by maria Date 7/14/81 # 18692
Publication prepared by maria Date 7/2/81
Published in Grading County Leader
Publication dates 7/9 & 8/5/81
Publication approved maria Date 8/3/81
Protests filed by: None

Copies of protests forwarded by _____
Hearing held by _____ Date _____
Recommended for approval denial by ADM RC

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. 37-7922, 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 85.

c. The rate of diversion, if water is to be used for irrigation under this permit, when combined with all other water rights for the same land shall not exceed 0.02 cubic feet per second for each acre of land.

d. Other: A measuring device and lockable controlling works of a type acceptable to the Department shall be permanently installed and maintained as part of the diverting works.

Use of water under this permit is subject to control by the watermaster of State Water District No. 37, Big Wood River.

This permit is subject to the provisions of Sections 42-205 through 42-210, Idaho Code, restricting the sale, transfer, assignment, or mortgage of this permit. Failure to comply with these provisions is cause for immediate cancellation of this permit.

This project shall be operated in a manner that will not conflict or interfere with the future diversion of water for irrigation or other beneficial consumption.

This permit does not constitute Idaho Public Utilities Commission or Federal Energy Regulatory Commission approval that may be required.

The issuance of this permit in no way grants any right-of-way or easement across the land of another.

The proposed rock blasting in the stream should be conducted during low flow periods when the flow of the river does not exceed 50 cfs.

Witness my hand this 9th day of August, 1982.

J. Glen Saxton
Chief, Operations Bureau

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
APPLICATION FOR PERMIT **APPROVED**

To appropriate the public waters of the State of Idaho

1. Name of applicant Vernon Ravenscroft Phone 345-2670

Post office address P. O. Box 893, Boise, ID 83701

2. Source of water supply Malad River which is a tributary of Snake River

3. Location of point of diversion is SE $\frac{1}{4}$ of SE $\frac{1}{4}$ of Section 29 Township 6-S

Range 14E B.M. Gooding County, additional points of diversion if any:

None

4. Water will be used for the following purposes:

Amount 20 cfs for Electrical Generation purposes from Jan. 1 to Dec. 31 (both dates inclusive)
(cfs or acre-feet per annum)

Amount for purposes from to (both dates inclusive)
(cfs or acre-feet per annum)

Amount for purposes from to (both dates inclusive)
(cfs or acre-feet per annum)

Amount for purposes from to (both dates inclusive)
(cfs or acre-feet per annum)

5. Total quantity to be appropriated:

a. 20 cubic feet per second and/or b. acre-feet per annum.

6. Proposed diverting works:

a. Description of ditches, flumes, pumps, headgates, etc. Natural overflow dry bed needs to be cleaned and a control gate established to regulate flow.

b. Height of storage dam none feet, active reservoir capacity acre-feet; total reservoir capacity acre-feet, materials used in storage dam:

Period of year when water will be diverted to storage to inclusive.
(Month/Day) (Month/Day)

c. Proposed well diameter is none inches; proposed depth of well is feet.

7. Time required for the completion of the works and application of the water to the proposed beneficial use is two years (minimum 1 year — maximum 5 years).

8. Description of proposed uses:

a. If water is not for irrigation:

(1) Give the place of use of water: SW $\frac{1}{4}$ of SW $\frac{1}{4}$ of Section 29 Township 6-S
Range 14-E B.M.

(2) Amount of power to be generated: 40 KW ~~horsepower~~ under 30 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:

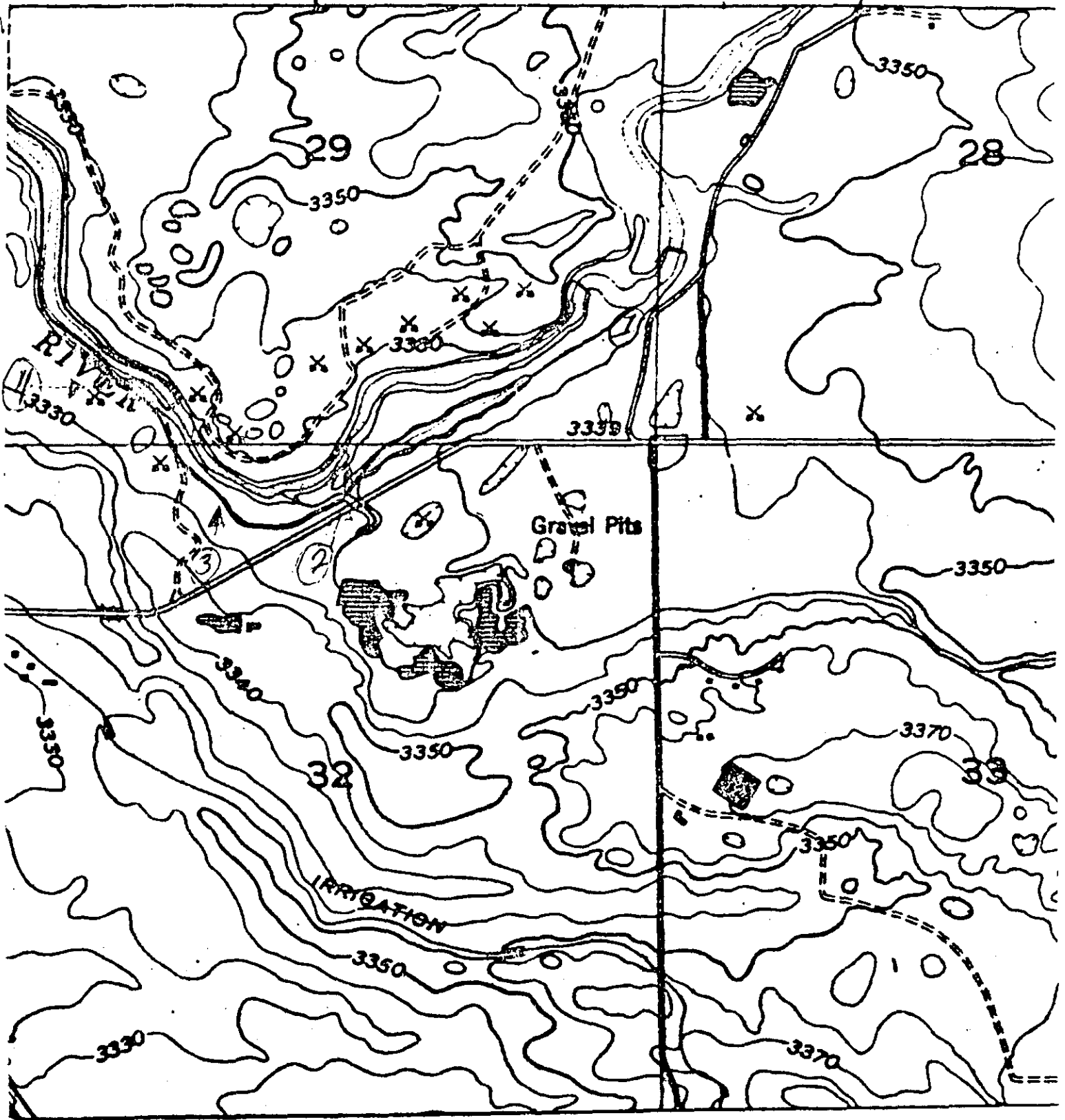
APPROVED

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

765 - R-14 E. BM.

3009 IV NE
(GOODING BUTTE) 679

4 M. TO U.S. 26



1. Dry Bed Natural Diversion
2. Diversion Dam in Natural Dry Bed
3. Constructed Canal or Pipe Syphons
4. Power Plant Site

BEFORE KNOWN AND PROPOSED PROJECTS ARE APPLIED FOR, PERMIT TO APPROPRIATE THE PUBLIC WATERS OF THE STATE OF IDAHO AS HEREIN SET FORTH.

Thomas R. Brown
(Applicant)

9/19/1980,

9-28-80

2:30 PM

Received by MA Date 9-19-80 Time 4: PM

Preliminary check by _____ Fee \$ 425.00 # 16608

Receipted by maria Date 9/29/80

Publication prepared by maria Date 10/3/80

Published in Gooding County Leader

Publication dates 10/9 & 10/16/80

Publication approved maria Date 10/8/80

Protests filed by: Hagerman Valley Citizens Alert - Withdrawn 4/30/81

Copies of protests forwarded by _____

Hearing held by BF & LH Date 4/23/81

Recommended for approval denial by LF

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. 37-7857, 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 84.

c. The rate of diversion, if water is to be used for irrigation under this permit, when combined with all other water rights for the same land shall not exceed 0.02 cubic feet per second for each acre of land.

d. Other: A measuring device and lockable controlling works of a type acceptable to the Department shall be permanently installed and maintained as part of the diverting works.

Use of water under this permit is subject to control by the watermaster of State Water District No. 37, Big Wood River.

This permit is subject to the provisions of Sections 42-205 through 42-210, Idaho Code, restricting the sale, transfer, assignment, or mortgage of this permit. Failure to comply with these provisions is cause for immediate cancellation of this permit.

The issuance of this permit in no way grants any right-of-way or easement across the land of another.

This project shall be operated in a manner that will not conflict or interfere with the future diversion of water for irrigation or other beneficial consumption.

This permit does not constitute Idaho Public Utilities Commission or Federal Energy Regulatory Commission approval that may be required.

The proposed rock blasting in the stream should be conducted during low flow periods when the flow of the river does not exceed 50 cfs.

Witness my hand this 9th day of August, 1982.

J. Glen Sartor
Chief, Operations Bureau

FROM

Ralph Carlson

DATE

11/22/82

TO

Files

SUBJECT

37-7922, 37-7857 & 37-7865 ✓

A representative from Vernon Ravenscroft's office picked up the approved copies of the Amendment For Permit. Therefore no cover letter was done.



SIGNATURE

October 29, 1982

RE: Water Permit Nos. 37-7857
37-7865
37-7922

Vernon P. Ravenscroft
P. O. Box 893
Boide, ID 83701

Dear Vern:

This letter is in response to your question of the need for a stream alteration permit to cover the removal of rock reefs and gravel down stream from the proposed project. A separate stream channel alteration permit is not required by the department. The water permits condition the blasting to low flow periods.

I would recommend that when you have determined the extent of work to be done that you contact the Twin Falls office for a field review.

Sincerely,

A. KENNETH DUNN
Director

AKD:alw



State of Idaho

DEPARTMENT OF WATER RESOURCES

STATE OFFICE, 450 W. State Street, Boise, Idaho

JOHN V. FRANKS

Governor

A. KENNEDY SMITH

Director

Mailing address:
Storehouse
Boise, Idaho 83720
(208) 334-4440

August 18, 1982

RE: Permit Nos. 37-7857, 37-7865 and 37-7922

Vernon Ravenscroft
P.O. Box 893
Boise, ID 83701

Dear Mr. Ravenscroft:

Enclosed are copies of your approved applications for permit. We direct your attention to the conditions of approval on the fourth pages.

Be sure to note the special condition requiring you to install a measuring device and lockable controlling works that will enable the watermaster to control your rate of diversion.

The 1982 Idaho Legislature added a requirement that as a permit holder you must commence the excavation or construction of diverting works within one year of the date the permit was issued, and must proceed diligently until the project is completed. The enclosed blue cards must be completed and returned to this office as soon as you commence construction, no later than one year from the date the permit was approved.

We have enclosed a form entitled "Making Proof of Beneficial Use". Please read the instructions carefully since you must take further action to develop these permits into licenses.

Sincerely,

DAVID R. TUTHILL, JR., P.E.
Supervisor, Water Allocation Section

DRT:kw
Enclosures

RECEIVED

INTER-DEPARTMENT MEMO — 1

FROM Loten Holmes

JUL 3 1982

DATE

7/16/82
put
copy of this memo
in file.

TO Glen Saxton

DEPARTMENT OF THE INTERIOR

SUBJECT 37-7857, 7865, 7922 - Ravenscroft

I Called Peter Bowler in regard to his late Protest.
I explained that a Conference had already been held prior
to my response to his late Protest, & I asked if he had
further concerns with the project.

He said he did not object to the project, provided
that the FERC Approval had been granted & the stream was protected
from complete dewatering.

LH

SIGNATURE

State of Idaho
Department of Water Resources

APPLICATION FOR PERMIT ANALYSIS SHEET

RAVENSCROFT, Vernon F.

INITIAL REVIEW BY: T. G. Blau

APPLICATION NUMBER: 37-7865

CHECK:

- ☒ Source.
☒ Point of diversion.
☒ County.
☒ Quantity of water and period of use.
☒ Description of diverting works.
☒ Time required for beneficial use of water.
☒ Place of use or acres irrigated.
☒ Map.
☒ Signature.
☐ Fee. income schedule 1375
☒ Yes ☐ No Field check required.
☐ Yes ☒ No Critical groundwater area.
☐ Yes ☒ No Request dam safety information. Sent by: _____ Date: _____
☒ Yes ☐ No* In form to receipt.

Field check by: _____

Date: _____

Comments: _____

*REQUEST THE FOLLOWING ADDITIONAL INFORMATION FROM THE APPLICANT:

Affidavit of Residence
Financial Statement
Cost of Construction
Plans
Proof of ownership
Letter dated 11-1-80

SEND COPIES TO:

- ☐ Idaho State Health Department. Copies sent by: _____ Date: _____
☒ Idaho Fish and Game Department. murphy 11/17/80
☐ Idaho Department of Lands. _____
☐ U.S. Bureau of Land Management. _____
☐ U.S. Forest Service. _____
☒ Other Bigwood River Watermaster - N. M. M. Murphy 11/17/80

PROCESSING:

- ☐ Yes ☒ No Platted by: _____ Map No. AA 76
☐ Yes ☐ No Other rights on same place of use. _____
☒ Yes ☐ No* In form for advertising.
Final date for protests: 12/22/80
☒ Yes ☐ No Protests received. If yes, record information on 4th page of application.

FINAL REGIONAL PROCESSING REVIEW:

- ☒ Affidavit of publication received. Date: 12-16-80
☒ Application published correctly. If not, record action taken: _____
☒ Fee amount, receipt date & number, recorded on application.
☒ Publication dates and paper, recorded on application.
☒ Protests, dates, withdrawal, etc., recorded on application.
☒ Recommendation & initial, recorded on application.
☒ Yes ☐ No Measuring device required.
☐ Yes ☒ No Access port required.
☒ Yes ☐ No Will water be delivered by watermaster? If yes, what district? 37
10/30/80 Date of priority recommended.
Special conditions of approval or cover letter. 01E, 05, 08A

THIS PERMIT DOES NOT CONSTITUTE IDAHO PUBLIC UTILITIES COMMISSION
OR FEDERAL ENERGY REGULATORY COMMISSION APPROVAL THAT MAY BE REQUIRED.

By: Loren O. Halmer Date: 5/11/81
STATE OFFICE REVIEW:
01E, 08A, 17, 04, 05 (37 Big W.R.)
LOH

☒ See attached sheet for more information.
By: Jim Date: 3/17/82

RECEIVED

INTER-DEPARTMENT MEMO — 1

FROM Loten Holmes

JUL 8 1982

DATE 7/2/82

TO Glenn Saxton

Department of Water Resources

SUBJECT Ravenscroft 37-7857, 7865, 7922

Attached are Agency Comments.

Alex Schaefer indicated by phone that he had no comments

LH

SIGNATURE



STATE OF IDAHO

DEPARTMENT OF LANDS

STATEHOUSE, BOISE, IDAHO 83720

GORDON C. TROMBLEY
DIRECTOR

RECEIVED

APR 14 1982

Department of Water Resources
Southern District Office

April 12, 1982

Department of Water Resources
Southern Region
1041 Blue Lakes Blvd. North
Twin Falls, ID 83301

RE: Ravenscroft, Vernon
37-7865, 37-7857,
37-7922

Gentlemen:

The work proposed in the above numbered applications will not affect state land or a navigable stream. A permit from this Department will not be required.

Thank you for sending the applications for our review.

Very truly yours,

William A. Scribner
WILLIAM A. SCRIBNER, Chief
Bureau of Navigable Waters

WAS:bv

IDAHO DEPARTMENT OF FISH AND GAME
REGION 4

868 East Main • Box 428
Jerome • Idaho • 83338

RECEIVED

July 1, 1982

JUL 2 1982

Department of Water Resources
Southern District Office

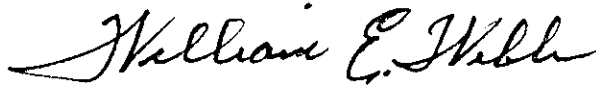
Mr. Loren O. Holmes
Southern Region Supervisor
Department of Water Resources
1041 Blue Lakes Blvd. North
Twin Falls, Idaho 83301

Re: Application for Permit #'s 37-7865, 37-7857 and 37-7922
Big Wood River, Vernon Ravenscroft

Dear Loren:

The Department of Fish and Game has reviewed the above described project. We have no objection to the proposed work provided blasting in the stream is conducted during a low flow period. Our recommendation is work should be done at flows not exceeding 50 cfs.

Sincerely,



William E. Webb
Regional Supervisor

cc: Bureau of Program Coordination



STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
SOUTHERN REGION

John V. Evans
Governor

C. Stephen Allred
Director

1041 Blue Lakes Blvd. North
Twin Falls, Idaho 83301
(208) 734-3578

April 6, 1982

Mr. Alex Schaefer
Idaho Department Health & Welfare
Division of Environment
P. O. Box 1626
Twin Falls, Idaho 83301

Re: Application for Permit 37-7865 - 37-7857 - 37-7922

Dear Mr. Schaefer:

The attached material describes a stream alteration proposed for the Malad River in the SW $\frac{1}{4}$, Sec. 29, T6S, R14E.

The alteration is proposed by Vernon F. Ravenscroft, P. O. Box 893, Boise, Idaho 83701, and is associated with water right applications 37-7857, 37-7865 and 37-7922, copies of which are attached.

The Department has determined that a permit to make the alteration is required under the Stream Channel Protection Act. (IDAHO CODE, Title 42, Chapter 38).

Following the required review under the Stream Channel Act, the Department proposes to incorporate any approval given into the conditions of approval on the associated water right permit.

Please review the proposed stream alteration and submit comments to this office within 30 days.

Very truly yours,

Loren O. Holmes
Southern Region Supervisor

l:marya

lcl:

RECEIVED
APR 10 1982
SOUTHERN REGION



STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
SOUTHERN REGION

John V. Evans
Governor

1041 Blue Lakes Blvd. North
Twin Falls, Idaho 83301
(208) 734-3578

C. Stephen Allred
Director

April 6, 1982

Mr. Bill Scribner
Idaho Department of Lands
Statehouse
Boise, Idaho 83720

Re: Application for Permit 37-7865 - 37-7857 - 37-7922

Dear Mr. Scribner:

The attached material describes a stream alteration proposed for the Malad River in the SW1, Sec. 29, T6S, R14E.

The alteration is proposed by Vernon F. Ravenscroft, P. O. Box 893, Boise, Idaho 83701, and is associated with water right applications 37-7857, 37-7865 and 37-7922, copies of which are attached.

The Department has determined that a permit to make the alteration is required under the Stream Channel Protection Act. (IDAHO CODE, Title 42, Chapter 33).

Following the required review under the Stream Channel Act, the Department proposes to incorporate any approval given into the conditions of approval on the associated water right permit.

Please review the proposed stream alteration and submit comments to this office within 30 days.

Very truly yours,

Loren O. Holmes
Southern Region Supervisor

LOH:marya

encl:



STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
SOUTHERN REGION

John V. Evans
Governor

C. Stephen Allred
Director

1041 Blue Lakes Blvd. North
Twin Falls, Idaho 83301
(208) 734-3578

April 6, 1982

Mr. Bob Bell,
Regional Fisheries Biologist
Idaho Department Fish & Game
Region 4
P.O. Box 428
Jerome, Idaho 83338

Re: Application for Permit 37-7865 - 37-7857 - 37-7922

Dear Mr. Bell:

The attached material describes a stream alteration proposed for the Palad River in the SW $\frac{1}{4}$, Sec. 29, T6S, R14E.

The alteration is proposed by Vernon F. Ravenscroft, P. O. Box 893, Boise, Idaho 83701, and is associated with water right applications 37-7857, 37-7865 and 37-7922, copies of which are attached.

The Department has determined that a permit to make the alteration is required under the Stream Channel Protection Act. (IDAHO CODE, Title 42, Chapter 38).

Following the required review under the Stream Channel Act, the Department proposes to incorporate any approval given into the conditions of approval on the associated water right permit.

Please review the proposed stream alteration and submit comments to this office within 30 days.

Very truly yours,

Loren O. Holmes
Southern Region Supervisor

LOH:marya



OR

UNITED STATES
DEPARTMENT OF THE ARMY
CORPS OF ENGINEERS

3069 IV NE
(GOODING BUTTE) 679

4 MI TO U.S. 26

680

47'30"

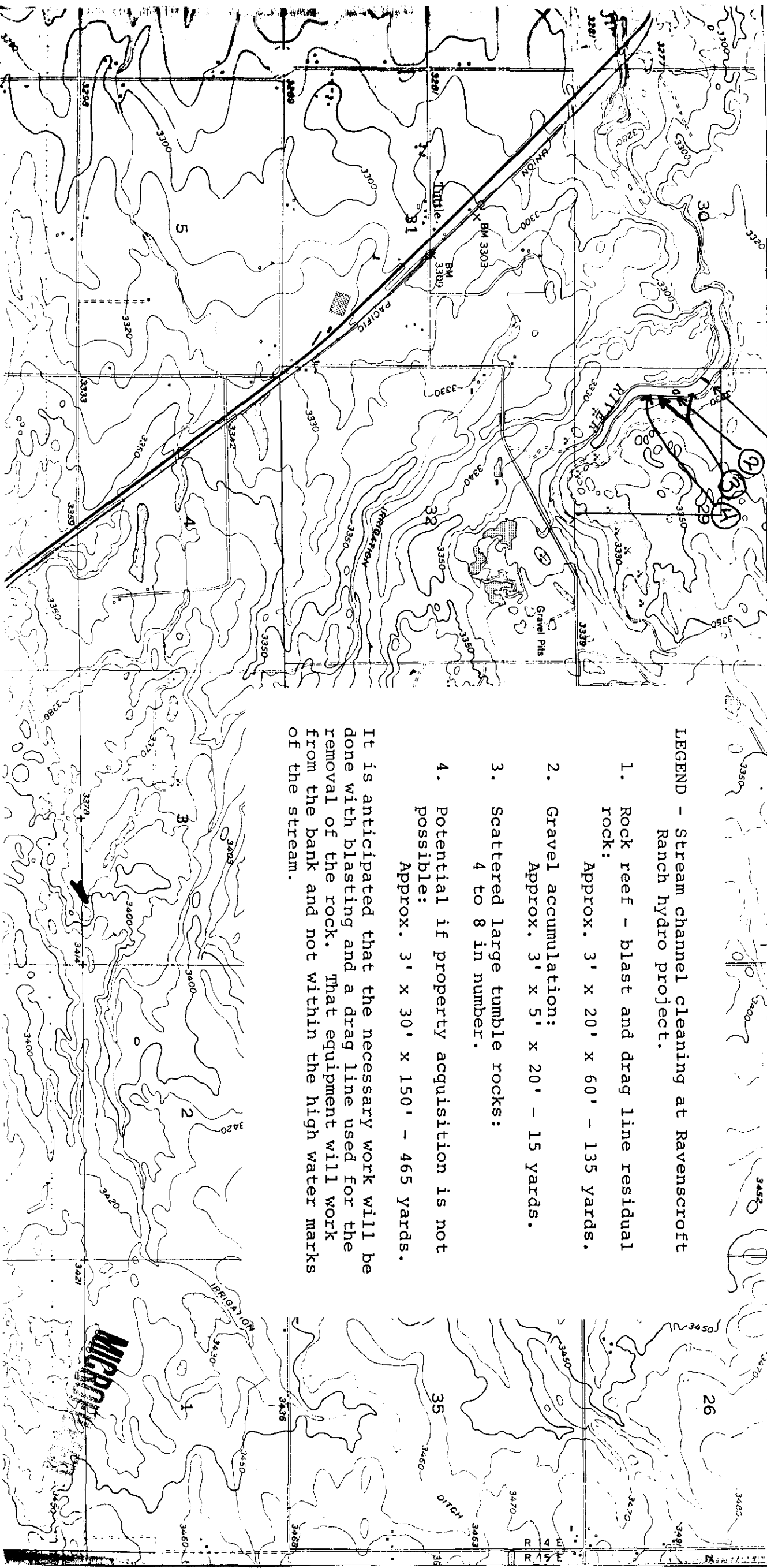
290,000 FEET

3.6 MI TO U.S. 26

683

66,700 FT 6 MI 111

TUTTLE QUADRANGLE
IDAHO
7.5 MINUTE SERIES (TOPOGRAPHIC)



LEGEND - Stream channel cleaning at Ravenscroft Ranch hydro project.

1. Rock reef - blast and drag line residual rock:
Approx. 3' x 20' x 60' - 135 yards.
2. Gravel accumulation:
Approx. 3' x 5' x 20' - 15 yards.
3. Scattered large tumble rocks:
4 to 8 in number.
4. Potential if property acquisition is not possible:
Approx. 3' x 30' x 150' - 465 yards.

It is anticipated that the necessary work will be done with blasting and a drag line used for the removal of the rock. That equipment will work from the bank and not within the high water marks of the stream.

INTER-DEPARTMENT MEMO — 1

FROM Glen S

DATE March 8 2

TO File

37-7857 & 37-7865

SUBJECT

Microfilm
- The Director advised that conditions of approval on the water rt permit could include conditions that normally would appear on an stream alteration approval.

- ∴ I asked Southern Region to determine agency comments WJ

SIGNATURE

INTER-DEPARTMENT MEMO — 1

FROM Glen S

DATE March 82

TO File 37-78574 37-7865

SUBJECT - I called Ravencroft's office and advised that a separate stream alteration permit would be required for work in the channel thru a distance of $\frac{1}{4}$ mi below tailrace.

- I referred him to W. Region.

[Signature]

SIGNATURE



State of Idaho

DEPARTMENT OF WATER RESOURCES

STATE OFFICE, 450 W. State Street, Boise, Idaho

JOHN V. EVANS

Governor

A. KENNETH DUNN

Director

Mailing address:
Statehouse
Boise, Idaho 83720
(208) 334-4440

MEMORANDUM

TO: 37-7857, 37-7865, 37-7922

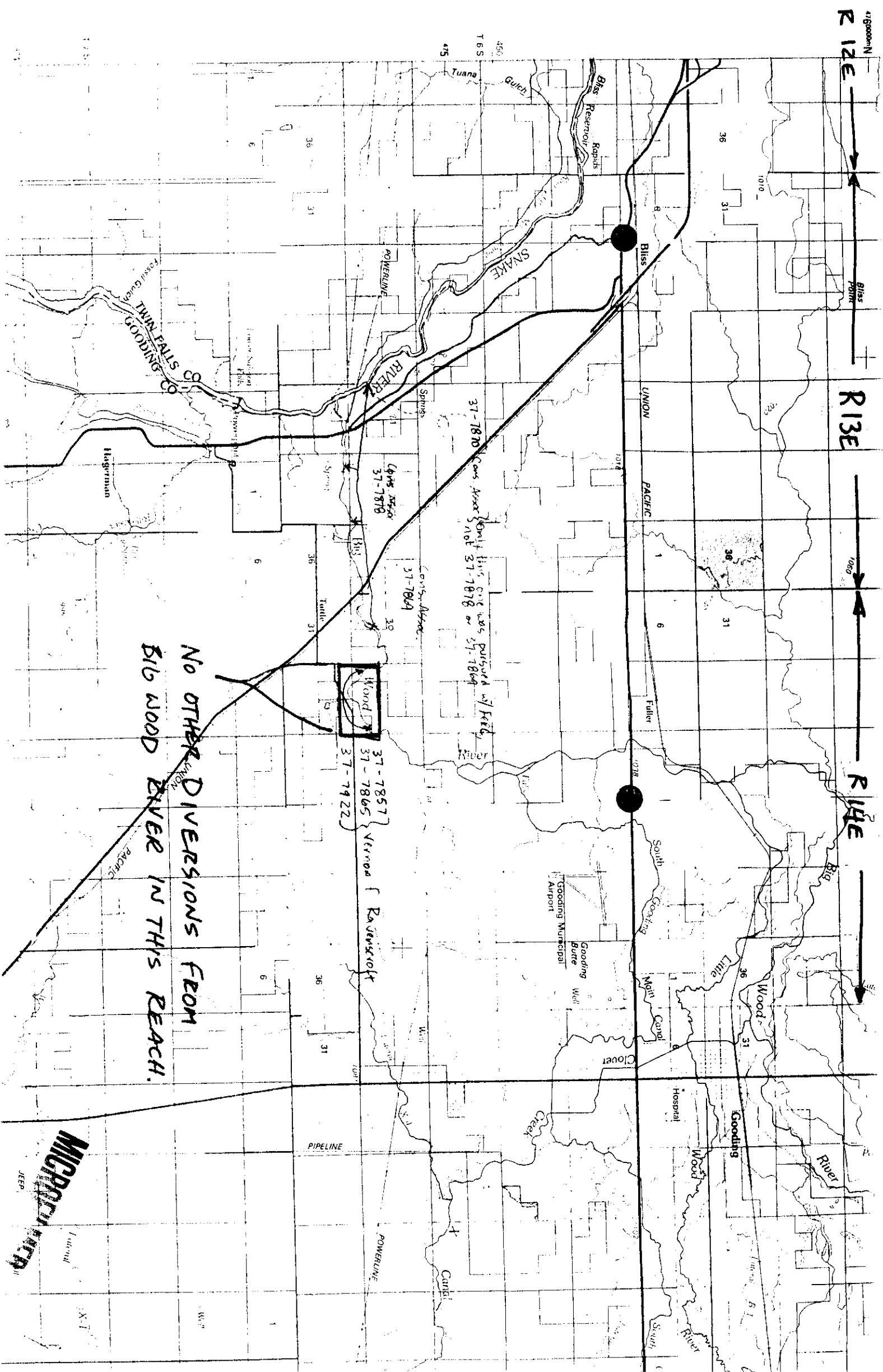
FROM: Dave Tuthill *DT*

DATE: March 2, 1982

RE: Impact on other Water Rights

The above referenced water right applications propose to divert from the Big Wood River in the SE $\frac{1}{4}$ SE $\frac{1}{4}$ Sec. 29, T. 6 S., R. 14 E., and propose return the water to the river in the SW $\frac{1}{4}$ SW $\frac{1}{4}$ Sec. 29, T. 6 S., R. 14 E. No other water rights divert in this reach so the proposed system would result in virtually no impact on other water rights.

MICROFILMED





Consulting Associates, Incorporated

BOISE OFFICE
VERNON RAVENSCROFT
HELEN CHENOWETH

RECEIVED
1982
Department of Water Resources
PHONE 333-3879
P.O. BOX 193
BOISE, IDAHO 83701

February 23, 1982

Mr. Ken Dunn
IDAHO DEPARTMENT OF WATER RESOURCES
Statehouse Mail
Boise, ID 83720

Dear Ken,

As follow-up to our conversation of February 19th, I am attaching a copy of my F.E.R.C. exemption issued February 5, 1982. It is my understanding that this documentation will now enable the final processing of the pending water permits needed for my hydro project at Tuttle, Idaho.

I request that these permits be issued with the provision that we have the usual authority to make our diversion and an additional authority to clean the river bed below the point of return for a distance of not to exceed one-quarter mile (1,320 ft.). By removing two rock reefs and one small gravel deposit we can lower the tailrace (increase the head) by as much as four feet. This will increase the efficiency of the site.

Sincerest personal regards,

Vernon F. Ravenscroft

VFR:sh

Enc.

857
4265
37-11829
MICROFILMED

37-11872
37-11878
37-11869

UNITED STATES OF AMERICA
FEDERAL ENERGY REGULATORY COMMISSION

Vernon F. Ravenscroft) Project No. 4055-002

NOTICE OF APPLICATION FOR EXEMPTION FOR SMALL HYDROELECTRIC
POWER PROJECT UNDER 5 MW CAPACITY

(August 31, 1981)

Take notice that on July 24, 1981, Vernon F. Ravenscroft (Applicant) filed an application under Section 408 of the Energy Security Act of 1980 (Act) (16 U.S.C. §§2705 and 2708 as amended), for exemption of a proposed hydroelectric project from licensing under Part I of the Federal Power Act. The proposed small hydroelectric project, Project No. 4055-002 would be located on the Malad River in Gooding County, Idaho. Correspondence with the Applicant should be directed to: Vernon F. Ravenscroft, Consulting Associates, Inc., P.O. Box 893, Boise, Idaho 83701.

Project Description - The proposed project would consist of: (1) a small diversion structure; (2) a 50-foot long and 30-inch diameter penstock; (3) a powerhouse containing four generating units, each rated at 175 kW; and (4) a transmission line. The Applicant estimates that the average annual energy output would be 3.0 million kWh.

Purpose of Project - The energy produced by the proposed project would be sold to a local utility.

Agency Comments - The U.S. Fish and Wildlife Service, The National Marine Fisheries Service, and the Idaho Dept. of Fish & Game are requested, for the purposes set forth in Section 408 of the Act, to submit within 60 days from the date of issuance of this notice appropriate terms and conditions to protect any fish and wildlife resources or to otherwise carry out the provisions of the Fish and Wildlife Coordination Act. General comments concerning the project and its resources are requested; however, specific terms and conditions to be included as a condition of exemption must be clearly identified in the agency letter. If an agency does not file terms and conditions within this time period, that agency will be presumed to have none. Other Federal, State, and local agencies are requested to provide any comments they may have in accordance with their duties and responsibilities. No other formal requests for comments will be made. Comments should be confined to substantive issues relevant to the granting of an exemption. If an agency does not file comments within 60 days from the date of issuance of this notice, it will be presumed to have no comments. One copy of an agency's comments must also be sent to the Applicant's representatives.

DC-2-10

-2-

Competing Application - Any qualified license applicant desiring to file a competing application must submit to the Commission, on or before **OCT 10 1981** either the competing license application that proposes to develop at least 7.5 megawatts in that project, or notice of intent to file such a license application. Submission of a timely notice of intent allows an interested person to file the competing license application no later than 120 days from the date that comments, protests, etc. are due. Applications for preliminary permit will not be accepted.

A notice of intent must conform with the requirements of 18 C.F.R. §4.33(b) and (c) (1980). A competing license application must conform with the requirements of 18 C.F.R. §4.33(a) and (d) (1980).

Comments, Protests, or Petitions to Intervene - Anyone may submit comments, a protest, or a petition to intervene in accordance with the requirements of its Rules of Practice and Procedure, 18 C.F.R. §1.8 or §1.10 (1980). In determining the appropriate action to take, the Commission will consider all protests or other comments filed, but only those who file a petition to intervene in accordance with the Commission's Rules may become a party to the proceeding. Any comments, protests, or petitions to intervene must be received on or before **OCT 10 1981**.

Filing and Service of Responsive Documents - Any filings, must bear in all capital letters the title "COMMENTS", "NOTICE OF INTENT TO FILE COMPETING APPLICATION", "COMPETING APPLICATION", "PROTEST", or "PETITION TO INTERVENE", as applicable, and the Project Number of this notice. Any of the above named documents must be filed by providing the original and three copies required by the Commission's regulations to: Kenneth F. Plumb, Secretary, Federal Energy Regulatory Commission, 425 North Capitol Street, N.E., Washington, D.C. 20426. An additional copy must be sent to: Fred E. Springer, Chief, Applications Branch, Division of Hydropower Licensing, Federal Energy Regulatory Commission, Room 268 NE, 425 North Capitol Street, N.E., Washington, D.C. 20426. A copy of any notice of intent, competing application, or petition to intervene must also be served upon each representative of the Applicant specified in the first paragraph of this notice.

Kenneth F. Plumb
Secretary

MICROFILMED

§ 4.106 Standard terms and conditions of exemption from licensing.

Any exemption from licensing granted under this subpart for a small hydroelectric power project is subject to the following standard terms and conditions:

(a) Article 1. The Commission reserves the right to conduct investigations under sections 4(g), 306, 307, and 311 of the Federal Power Act with respect to any acts, complaints, facts, conditions, practices, or other matters related to the construction, operation, or maintenance of the exempt project. If any term or condition of the exemption is violated, the Commission may revoke the exemption, issue a suitable order under section 4(g) of the Federal Power Act, or take appropriate action for enforcement, forfeiture, or penalties under Part III of the Federal Power Act.

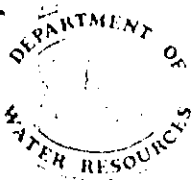
(b) Article 2. The construction, operation, and maintenance of the exempt project must comply with any terms and conditions that any Federal or state fish and wildlife agencies have determined are appropriate to prevent loss of, or damage to, fish or wildlife resources or otherwise to carry out the purposes of the Fish and Wildlife Coordination Act, as specified in Exhibit E of the application for exemption from licensing or in the comments submitted in response to the notice of the exemption application.

(c) Article 3. The Commission may accept a license application by any qualified license applicant and revoke this exemption if actual construction or development of any proposed generating facilities has not begun within 18 months, or been completed within four years, from the date on which this exemption was granted. If an exemption is revoked, the Commission will not accept a subsequent application for exemption within two years of the revocation.

(d) Article 4. This exemption is subject to the navigation servitude of the United States if the project is located on navigable waters of the United States.

(e) Article 5. This exemption does not confer any right to use or occupy any Federal lands that may be necessary for the development or operation of the project. Any right to use or occupy any Federal lands for those purposes must be obtained from the administering Federal land agencies. The Commission may accept a license application by any qualified license applicant and revoke this exemption, if any necessary right to use or occupy Federal lands for those purposes has not been obtained within one year from the date on which this exemption was granted.

MICROFILMED



State of Idaho

DEPARTMENT OF WATER RESOURCES

STATE OFFICE, 450 W. State Street, Boise, Idaho

JOHN V. EVANS

GOVERNOR

A. KENNETH DUNN

COMMISSIONER

RECEIVED

OCT 15 1981

Mailing address:
Statehouse
Boise, Idaho 83720
(208) 334-4440

Department of Water Resources

October 5, 1981

RECEIVED

OCT 6 1981

RE: Applications for Permit Nos. 37-7857, 37-7865 and 37-7922

Vernon Ravenscroft
P.O. Box 893
Boise, ID 83701

Dear Mr. Ravenscroft:

We have completed a preliminary review of the above referenced application. This review has included advertising by the regional office and a verification that all required preliminary information has been provided.

For power projects that are under the jurisdiction of the Federal Energy Regulatory Commission (FERC), we withhold final action on the application pending FERC approval of (1) a preliminary permit, or (2) an exemption. If you have not yet contacted FERC, the address below is a good starting point:

Federal Energy Regulatory Commission
Regional Engineer's Office
Attn: Mr. Jerry Leach
6th Floor, 333 Market Street
San Francisco, CA 94105
(Tel. No. (415) 764-7150)

The continued validity of this application is contingent on your proceeding with due diligence toward obtaining an approval or an exemption from FERC. Please keep this office informed of progress in this regard.

Sincerely,

L. Glen Saxton

L. GLEN SAXTON
Chief, Operations Bureau

kw

- Application for
accepted for
filing Aug. 20, 1981
by F.E.R.C.

RECEIVED

WATER RIGHT NUMBER 37-7865

OWNER LAST NAME - RAVENSCROFT

FIRST NAME - VERNON F.

ORIG OWNER -

ADDRESS LINE 1 - P.O. BOX 893

ADDRESS LINE 2 -

ADDRESS LINE 3 -

CITY - BOISE

STATE - ID ZIP CODE - 83701

SOURCE - MALAD RIVER

TRIBUTARY OF - SNAKE RIVER

STAGE - APPLICATION

STATUS -

PRIORITY - 10-30-1980

COUNTY - GOODING

TOTAL DIV. RATE -

130.0000 -CFS

TOTAL DIV. VOLUME -

.00 AFA

TRFR/AMEND -

WATER DIST. -

DLE/CAREY ACT -

RIGHT BASIS -

DIVERSION POINT - SESE 29 06S 14E LOT

REDIV -

FROM - 01-01 TO - 12-31

USE - POWER

USE DIV. RATE -

130.0000 CFS

USE DIV. VOLUME -

.00 AFA

USE - POWER

PLACE OF USE - TWN 06S RNG 14E SEC 29 TRACT SWSW LOT

AC

DECREE NAME -

DATE -

TOTAL ACRES

0

REMARKS -

NON IRRIG USE -

OTHER RIGHTS FOR SAME USE - 37-7857

PROOF DUE -

PERMIT/DENIED -

PROTESTED -

HEARING -

OLD NO. -

PROOF MADE -

FLD EXAM -

COND. OF APPROVAL -

DIVERSION MEANS - CONTROL GATE



State of Idaho

DEPARTMENT OF WATER RESOURCES

STATE OFFICE, 450 W. State Street, Boise, Idaho

JOHN V. EVANS

Governor

A. KENNETH DUNN

Director

Mailing address:

Statehouse

Boise, Idaho 83720

(208) 334-4440

October 5, 1981

RE: Applications for Permit Nos. 37-7857, 37-7865 and 37-7922

Vernon Ravenscroft
P.O. Box 893
Boise, ID 83701

Dear Mr. Ravenscroft:

We have completed a preliminary review of the above referenced application. This review has included advertising by the regional office and a verification that all required preliminary information has been provided.

For power projects that are under the jurisdiction of the Federal Energy Regulatory Commission (FERC), we withhold final action on the application pending FERC approval of (1) a preliminary permit, or (2) an exemption. If you have not yet contacted FERC, the address below is a good starting point:

Federal Energy Regulatory Commission
Regional Engineer's Office
Attn: Mr. Jerry Leach
6th Floor, 333 Market Street
San Francisco, CA 94105
(Tel. No. (415) 764-7150)

The continued validity of this application is contingent on your proceeding with due diligence toward obtaining an approval or an exemption from FERC. Please keep this office informed of progress in this regard.

Sincerely,

GLEN SAXTON
Chief, Operations Bureau

LGS:kw

MICHAEL
SAXTON
10/10/81



State of Idaho

DEPARTMENT OF WATER RESOURCES

STATE OFFICE, 450 W. State Street, Boise, Idaho

Copy

JOHN V. EVANS
Governor

A. KENNETH DUNN
Director

Mailing address:
Statehouse
Boise, Idaho 83720
(208) 334-4440

37-7865

July 24, 1981

RE: Application for Permit No.

Dear Applicant:

The 1981 Idaho Legislature made a change in Section 42-205, Idaho Code, that may affect the above referenced application. The change requires that if a proposed hydropower project will use existing irrigation facilities, the approval of the owner of the facilities must be obtained before an application for permit to develop a water right can be approved.

Please find enclosed an affidavit which we must receive before we can complete the review of your application. Please complete the affidavit, sign it before a notary, and return it to this office at your earliest convenience, no later than August 15, 1981.

Sincerely,

DAVID R. TUTHILL JR., P. E.
Supervisor, Water Allocation Section

DRT:jg

Enclosure

MICROFILMED

BEFORE THE DIRECTOR OF THE DEPARTMENT OF WATER RESOURCES
OF THE
STATE OF IDAHO

IN THE MATTER OF PROTESTS AGAINST APPROVAL)
OF APPLICATIONS FOR PERMIT NO. 37-7857 and)
37-7865 IN THE NAME OF VERNON RAVENSCROFT)

NOTICE OF CONFERENCE
AND/OR HEARING

On September 25, 1980, Vernon Ravenscroft filed with the Department of Water Resources an application to appropriate the public waters of the State of Idaho. On October 23, 1980, the Department received protest against approval of said application from S. G. Carleton, president, Hagerman Valley Citizens' Alert, Inc.

On October 30, 1980, Vernon Ravenscroft filed with the Department of Water Resources an application to appropriate the public waters of the State of Idaho. On December 10, 1980, the Department received protest against approval of said application from S. G. Carleton, president, Hagerman Valley Citizens' Alert, Inc.

The Department has set the matter of protests for conference and/or hearing for Thursday, April 23, 1981, at 10:00 a.m., in Gooding City Hall, 308 Fifth Avenue West, Gooding, Idaho. Any hearing will be held in accordance with provisions of Chapter 2, Title 42, and Chapter 52, Title 67, of the Idaho Code and adopted Rules of Practice and Procedure of the Department of Water Resources. Opportunity shall be afforded all parties to respond and present evidence and argument on all issues involved.

In accordance with Idaho Code, Section 42-203, the following issues are involved in the consideration of the application and protests:

- 1) Will the proposed use reduce the quantity of water under existing water right?
- 2) Is the proposed water supply insufficient for the purpose intended?
- 3) Is the application made in good faith or for delay or speculative purposes?
- 4) Has the applicant sufficient financial resources with which to complete the project?
- 5) Will the proposed use conflict with the local public interest?

Any party may request in writing five (5) days before any hearing that the proceedings thereof be taken in the form of stenographic notes at the expense

MICROFILMED

of the requesting party. Any party may have such stenographic notes of the oral proceedings, or part thereof, transcribed at his own expense. A taped record of the proceedings will be maintained for the appeal period.

If the hearing is conducted by a hearing officer appointed by the Director, rather than the Director himself, a proposed decision will be submitted to the parties and the parties will be afforded an opportunity to file exceptions to the proposed decision and present briefs and oral arguments to the Director prior to the issuance of a final decision by the Director. This procedure is required by Idaho Code Section 67-5211.

By written stipulation, the parties may waive compliance with Idaho Code, Section 67-5211. If the hearing is conducted by a hearing officer, the hearing officer will ask the parties at the close of the hearing whether they would like to make such a stipulation.

Failure to waive compliance with Idaho Code, Section 67-5211 will not prejudice the Director's review of a party's evidence and arguments. However, such a waiver will shorten the decision-making process and may expedite substantially the issuance of a final decision. Whether compliance with Section 67-5211 is waived will not effect a party's right to petition for a rehearing of the final decision pursuant to Rule 11 of the Department's Rules of Practice and Procedure or affect a party's right to appeal the final decision to the District Court.

Failure to appear at the time and place set for hearing by the applicant or protestants may allow the Department to dismiss without prejudice the protests or the application. Any and all cost incurred by reason of such non-appearance may be assessed against such non-appearing parties.

DATED This 1 day of April, 1981.

Loren O. Holmes

LOREN O. HOLMES
Southern Region Supervisor

MICROFILMED



STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
SOUTHERN REGION

John V. Evans
Governor

C. Stephen Allred
Director

1041 Blue Lakes Blvd. North
Twin Falls, Idaho 83301
(208) 734-3578

May 11, 1981

Peter A. Bowler
Star Route
Bliss, Idaho 83314

Re: Application for Permit No. 37-7857, 37-7865 - Vernon Ravenscroft
Application for Permit No. 37-7869, 37-7870, 37-7878 - Consulting Associates, Inc.

Dear Mr. Bowler:

Receipt of your letter of protest against the above referenced applications on April 20, 1981 did not give sufficient notice to allow you to intervene in a hearing in the matter of applications 37-7857, and 37-7865 which was held April 23, 1981.

The final date for filing protests on applications 37-7869, 37-7870 and 37-7878 had also passed. However, since there are other protests in the matter, your protest has been accepted and a copy sent to the applicant with the understanding that the timeliness of your protest may be an issue in the matter.

You will be notified when a date for conference and/or hearing is set. At such a conference and/or hearing the following are the principal items the Department can consider in approving or denying an application for permit, Section 42-203, IDAHO CODE:

- 1) Will the proposed use reduce the quantity of water under existing water rights?
- 2) Is the proposed water supply insufficient for the purposes intended?
- 3) Is the application made in good faith or for delay or speculative purposes?
- 4) Has the applicant sufficient financial resources with which to complete the project?
- 5) Will the proposed use conflict with the local public interest?

If you need further assistance, please contact this office.

Sincerely,
truly yours,

LOREN O. HOLMES
Southern Region Supervisor

LOH:marya

RECEIVED

April 15, 1981

APR 20 1981

Mr. Loren O. Holmes
Department of Water Resources
1041 Blue Lakes Blvd. North
Twin Falls, Idaho 83301

Department of Water Resources
Southern District Office

RE: Application Ident. Nos. 37-7857, 37-7865, 37-7869, 37-7870, and 37-7878
from Mr. Vernon Ravenscroft or Consulting Associates, Inc. on the Malad
River in Gooding County

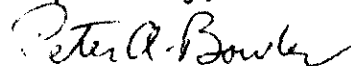
Dear Mr. Holmes:

The dewatering of a navigable river is a public interest matter which requires data-based evaluation. The diversion and dewatering of the Malad River would impact the Malad Gorge State Park, the potential Malad Canyon National Natural Landmark, and a Unique Wildlife Ecosystems Program site (U.S. Fish and Wildlife Service). On these grounds and other considerations, this clearly constitutes a major action and requires compliance with the National Environmental Policy Act of 1969 and the preparation of an Environmental Impact Statement.

The Idaho Department of Fish and Game and the Idaho Department of Parks and Recreation have compiled instream flow research on the impacted segment of the Malad River, and in fact the Department of Parks and Recreation has filed a public interest minimum streamflow request. Should the river be entirely dewatered, as is proposed by the Applicant, the water filled holes along the river in the Malad Gorge State Park would become stagnant with smallmouth bass habitat being sacrificed. This would detract from the Malad Gorge State Park and diminish the recreational attractiveness of the upper Park area. Only through the Environmental Impact Process can adequate analysis be accomplished to allow accurate determination of how much, if any, water can be removed from the streambed without deteriorating the public resources present.

Please include my name as a Protestant in the above filings. I would appreciate receiving a copy of the Environmental Impact Statement draft should the granting of one of these filings be considered further. The dewatering of sites like this river segment which is in a State Park and a site of national significance is clearly contrary to the true public interest.

Respectfully,



Peter A. Bowler
Star Route
Bliss, Idaho
83314

cc. Hagerman Valley Citizen's Alert
Heritage Conservation and Recreation Service
U.S. Fish and Wildlife Service
Idaho Department of Fish and Game
Idaho Department of Parks and Recreation

MICROFILMED

April 28, 1981

Loren Holmes
Department of Water Resources
1041 Blue Lakes Blvd. North
Twin Falls, ID 83301

Re: Application No. 37-7857 and No. 37-7865
Vernon Ravenscroft

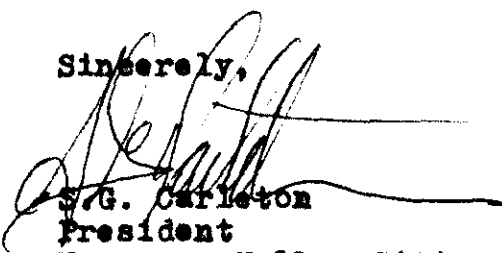
RECEIVED
APR 30 1981
Department of Water Resources
Southern District Office

Dear Mr. Holmes:

As a result of the informal hearing held on April 23, 1981, regarding the above-referenced applications to divert the Malad River for hydroelectric development, Hagerman Valley Citizens' Alert, Inc. hereby formally withdraws its protest of both applications.

Thank you for your consideration.

Sincerely,


S.G. Carlston
President
Hagerman Valley Citizens' Alert, Inc.
P.O. Box 32
Hagerman, ID 83332

Original in file 37-7857

LH

MICROFILMED

$$HP = \frac{QH}{8}$$

Applicant

4-23-81

37-7857

Vernon Ravenscroft

Protestant

Hagerman Valley Citizens Alert, Inc.

S.G. Carleton, Pres.

37-7857

20 cfs

Sept

9-19-80

37-7865

130 cfs

Oct

10-30-80

Issues -

- Mr Ravenscroft not ready to present or defend other applications
speculation?

Conference

Head available 39⁵ ft at site 1

" " 45⁵ ft. at site 2

Ponds will be sealed to establish a fishery in the ponds

Ponds from northside drains will also be sealed

He claims the project will improve the flow in the River -

USGS gage 1 mile above P.D

150 cfs available 8 months

always over 100 cfs -

Survey is complete

Question about Kilowatts

$$HP = \frac{QH}{8}$$

.746 =

$$150 \pm \frac{40}{8.8} = 154.5$$

$$V \times H \cdot .7 \text{ eff} = \text{installed Kilowatt Capacity}$$

Need to file -
on the Drain -



MICROFILMED

Is there a contract with Idaho Power — Feasibility?

Power Co. will pay for energy plus avoided cost = to \$0.00/kwh

Issue is if speculation since return is less than 5%
→ Cost ~~\$0.04~~ \$0.04 plus/kwh

Profit: \$0.02/kwh $\times$ 500kwh —

Local Public Interest

Will levels of oxygen or nitrogen

Ravenscroft —

No nitrogen supersaturation with this low head —

No effect of oxygen caused by generating plant —

Condition →

MICROFILMED

37-7857, 37-7865 Ravenscroft

Informal Cont.

Ravenscroft: R.D.W. Agreement in works for improvement
of Gravel Pits on BLM.

Loss of irrigation return would be reduced,
adding to river flow

Cattlemen Q: Conversion kW to HP

Contractual arrangements: Has IPCO been contacted with?

Ravenscroft: Resale value of PWT is $\approx 6¢/kwh$ — No Contract Yet
Cost = $4¢/kwh$

Cattlemen Q: Local Pub. Interest — water quality

Ravenscroft: No Nitrogen Saturation, O_2 dependent on upstream water quality

HUCA — Agrees to w/draw protest.

MICROFILMED

37-7857 - 37-7865 - VERNON RAVENSCROFT -

Meeting Room - Gooding City Hall - Gooding, Idaho

Thursday - April 23, 1981 - 10:00 a.m.

ROSTER OF ATTENDANCE

Hearing Officer _____

Assisted By _____

Name	Address	Representing
S. G. Carleton	Hagerman	Citizen Alert
Irvin Cedar	"	"
Mary E. Joseph	"	"
Judy E. Louren	"	"
Margaret McColloch	"	"
~~W. F. McColloch~~		
Bob Bell	Jerome	Idaho Fish & Game
Charlotte V. Hamilton	Hagerman	Citizen Alert
Thomas M. Hamilton	Hagerman	"
Aldrich Bowler	Blue	"
Alan Ball	Swain Falls	Idaho Power Co
Jan Burns	Gooding	Idaho Power
Tom Anderson	Hagerman	
Don Harrison		Malad Gorge S.P.
Kick Bowen		MALAD GORGE S.P.
Vernon Ravenscroft	title	Applicant
John T. Weaver	Buhl	Applicant

NOTED

BEFORE THE DIRECTOR OF THE DEPARTMENT OF WATER RESOURCES
OF THE
STATE OF IDAHO

IN THE MATTER OF PROTESTS AGAINST APPROVAL)
OF APPLICATIONS FOR PERMIT NO. 37-7857 and)
37-7865 IN THE NAME OF VERNON RAVENSCROFT)

NOTICE OF CONFERENCE
AND/OR HEARING

On September 25, 1980, Vernon Ravenscroft filed with the Department of Water Resources an application to appropriate the public waters of the State of Idaho. On October 23, 1980, the Department received protest against approval of said application from S. G. Carleton, president, Hagerman Valley Citizens' Alert, Inc.

On October 30, 1980, Vernon Ravenscroft filed with the Department of Water Resources an application to appropriate the public waters of the State of Idaho. On December 10, 1980, the Department received protest against approval of said application from S. G. Carleton, president, Hagerman Valley Citizens' Alert, Inc.

The Department has set the matter of protests for conference and/or hearing for Thursday, April 23, 1981, at 10:00 a.m., in Gooding City Hall, 308 Fifth Avenue West, Gooding, Idaho. Any hearing will be held in accordance with provisions of Chapter 2, Title 42, and Chapter 52, Title 67, of the Idaho Code and adopted Rules of Practice and Procedure of the Department of Water Resources. Opportunity shall be afforded all parties to respond and present evidence and argument on all issues involved.

In accordance with Idaho Code, Section 42-203, the following issues are involved in the consideration of the application and protests:

- 1) Will the proposed use reduce the quantity of water under existing water right?
- 2) Is the proposed water supply insufficient for the purpose intended?
- 3) Is the application made in good faith or for delay or speculative purposes?
- 4) Has the applicant sufficient financial resources with which to complete the project?
- 5) Will the proposed use conflict with the local public interest?

Any party may request in writing five (5) days before any hearing that the oral proceedings thereof be taken in the form of stenographic notes at the expense

MICROFILMED

of the requesting party. Any party may have such stenographic notes of the oral proceedings, or part thereof, transcribed at his own expense. A taped record of the proceedings will be maintained for the appeal period.

If the hearing is conducted by a hearing officer appointed by the Director, rather than the Director himself, a proposed decision will be submitted to the parties and the parties will be afforded an opportunity to file exceptions to the proposed decision and present briefs and oral arguments to the Director prior to the issuance of a final decision by the Director. This procedure is required by Idaho Code Section 67-5211.

By written stipulation, the parties may waive compliance with Idaho Code, Section 67-5211. If the hearing is conducted by a hearing officer, the hearing officer will ask the parties at the close of the hearing whether they would like to make such a stipulation.

Failure to waive compliance with Idaho Code, Section 67-5211 will not prejudice the Director's review of a party's evidence and arguments. However, such a waiver will shorten the decision-making process and may expedite substantially the issuance of a final decision. Whether compliance with Section 67-5211 is waived will not effect a party's right to petition for a rehearing of the final decision pursuant to Rule 11 of the Department's Rules of Practice and Procedure or affect a party's right to appeal the final decision to the District Court.

Failure to appear at the time and place set for hearing by the applicant or protestants may allow the Department to dismiss without prejudice the protests or the application. Any and all cost incurred by reason of such non-appearance may be assessed against such non-appearing parties.

DATED This 1 day of April, 1981.



LOREN O. HOLMES
Southern Region Supervisor

MICROFILMED



STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
SOUTHERN REGION

John V. Evans
Governor

C. Stephen Allred
Director

1041 Blue Lakes Blvd. North
Twin Falls, Idaho 83301
(208) 734-3578

April 1, 1981

Sue Wilson
Gooding City Hall
308 Fifth Avenue West
Gooding, Idaho 83338

Dear Ms. Wilson:

This is to confirm the use of the meeting room in the Gooding City Hall for conference and/or hearing to be held by this office Thursday, April 23, 1981 at 10:00 a.m., and 1:00 p.m.

Thank you for your cooperation in this matter.

Very truly yours,

Mary A. Hill
Sr. Secretary

for

Loren O. Holmes
Southern Region Supervisor

MICROFILMED
SERIALIZED
APR 1 1981
FBI - TWIN FALLS



STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
SOUTHERN REGION

John V. Evans
Governor

C. Stephen Allred
Director

1041 Blue Lakes Blvd. North
Twin Falls, Idaho 83301
(208) 734-3578

December 23, 1980

Vernon F. Ravenscroft
P. O. Box 893
Boise, Idaho 83701

Re: Application for Permit No. 37-7865

Dear Mr. Ravenscroft:

Enclosed is a copy of a protest filed against the issuance of a permit pursuant to your Application No. 37-7865. The Department suggests you contact the protestant directly in an effort to determine the nature of the protest and to attempt to resolve the protest.

If you do not advise us within twenty (20) days that the protest has been resolved, the matter will be scheduled for conference and/or hearing. At such a conference and/or hearing, the following are the principle items the Department can consider in either approving or denying an application for permit (Section 42-203, Idaho Code):

1. Will the proposed use reduce the quantity of water under existing water rights?
2. Is the proposed water supply insufficient for the purposes intended?
3. Is the application made in good faith or for delay or speculative purposes?
4. Has the applicant sufficient financial resources with which to complete the project?
5. Will the proposed use conflict with the local public interest?

If this office can be of further assistance, please contact us.

Very truly yours,

LOREN O. HOLMES
Southern Region Supervisor

LOH:marya

Encl:

MICROFILMED



STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
SOUTHERN REGION

John V. Evans
Governor

1041 Blue Lakes Blvd. North
Twin Falls, Idaho 83301
(208) 734-3578

C. Stephen Allred
Director

December 23, 1980

S. G. Carleton, President
Hagerman Valley Citizens' Alert, Inc.
P. O. Box 32
Hagerman, Idaho 83332

Re: Application for Permit No. 37-7865

Dear Mr. Carleton:

Your protest against the approval of the above-referenced application submitted in behalf of Hagerman Valley Citizens' Alert, Inc., has been received and a copy has been sent to the applicant. The Department suggests you contact the applicant directly in an effort to determine what is proposed by the application and to attempt to resolve the protest.

If you do not advise us within twenty (20) days that the protest has been resolved, the matter will be scheduled for conference and/or hearing. At such a conference and/or hearing, the following are the principle items the Department can consider in either approving or denying an application for permit (Section 42-203, Idaho Code):

- 1) Will the proposed use reduce the quantity of water under existing water rights?
- 2) Is the proposed water supply insufficient for the purpose intended?
- 3) Is the application made in good faith or for delay or speculative purposes?
- 4) Has the applicant sufficient financial resources with which to complete the project?
- 5) Will the proposed use conflict with the local public interest?

If this office can be of further assistance, please contact us.

Sincerely,

REN O. HOLMES
Southern Region Supervisor

COH:marya

RECEIVED
DEC 24 1980

December 8, 1980

Loren Holmes
Supervisor
Department of Water Resources
1041 Blue Lakes Blvd. North
Twin Falls, ID 83301

RECEIVED
DEC 10 1980
Department of Water Resources
Southern District Office

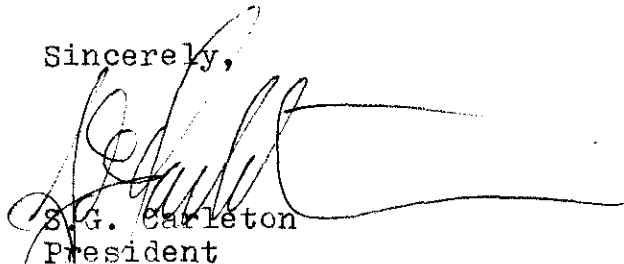
Re: Application No. 37-7865
Vernon Ravenscroft

Dear Mr. Holmes:

Hagerman Valley Citizens' Alert, Inc. objects to the above-referenced application. We concur with the applicant's November 3, 1980 letter to you wherein he suggests a public hearing on this application and No. 37-7837 be held at the same time. Such hearing will enable us to enter into the public record what impact diversion of 150 cfs will have on existing water rights, if the water supply is sufficient, if the application is speculative, what the design for the project is and if the applicant has sufficient financial resources for its completion.

Thank you for your attention to this letter.

Sincerely,



S.G. Carleton
President
Hagerman Valley Citizens' Alert, Inc.
P.O. Box 32
Hagerman, ID 83332

MICROFILMED

NOTICE OF APPLICATION FOR WATER RIGHT

Notice is hereby given that the following application(s) have been submitted for permit to appropriate the public waters of the State of Idaho:

32-2865-

RAVENSCROFT, VERNON F.

P.O. BOX 893, BOISE, ID 83701

Source: MALAD RIVER tributary to SNAKE RIVER

Date Filed: 10/30/1980

Amount: 130.00 CFS

Diversion Point: SESE Sec 29 T 06S R 14E, GOODING Co.

Use: POWER (130.00 CFS) from 01/01 to 12/31

Place of Use: SWSW Sec 29 T 06S R 14E

Diversion Means: CONTROL GATE

If issued, the permit(s) will be subject to all prior water rights. Protests against the granting of any permit must be filed with the Director of the Idaho Department of Water Resources, 1041 Blue Lakes Blvd. North, Twin Falls, Idaho 83301 and received on or before DECEMBER 22, 1980.

C. STEPHEN ALLRED

Director

Published 12/3 & 12/10/80.

MICROFILMED
1981

**NOTICE OF APPLICATION
FOR WATER RIGHT**

Notice is hereby given
that the following applica-
tion(s) have been submitted
for permit to appropriate the
public waters of the State of
Idaho:

37-7865

RAVENSCROFT, VERNON
F.

P.O. BOX 893, BOISE, ID
83701

Source: MALAD RIVER
tributary to SNAKE RIVER

Date Filed: 10/30/1980

Amount: 130.00 CFS

Diversion Point: SESE Sec
29 T 06S R 14E, GOOD-
ING Co.

Use: POWER (130.00 CFS)
from 01/01 to 12/31

Place of Use: SWSW Sec 29 T
06S R 14E

Diversion Means: CON-
TROL GATE

*ok
mays
11/24/80*

MICROFILMED

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
Southern Region

1041 Blue Lakes Blvd N.
Twin Falls, Idaho 83301
(208) 734-3578

NOVEMBER 20, 1980

Goodins County Leader
P.O. Box 56
Goodins, Idaho 83330

Gentlemen:

Enclosed you will find a legal notice which we wish to have published on the dates indicated (once a week for two consecutive weekly issues) in your newspaper. We have allowed ample time for you to submit a galley proof to this office for review before the first publication date. If you cannot publish the notice on the proposed dates, please contact us immediately.

An affidavit of publication must be submitted to the Department along with the publication bill. Your cooperation is appreciated.

Please send the affidavit of publication and publication billing to this office before DECEMBER 22, 1980.

Yours truly,

Mary A. Hill
Secretary

Encl.

RECEIVED
NOV 22 1980

IDENT. NO. 21-7865

WATER RIGHT
DATA ENTRY LOG

Item

11/19/80

maps

11/19/80

Key punched by State Office

RC

1-31-83

Key punched by State Office
Assignment coded & entered



STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
SOUTHERN REGION

John V. Evans
Governor

C. Stephen Allred
Director

1041 Blue Lakes Blvd. North
Twin Falls, Idaho 83301
(208) 734-3578

November 17, 1980

Mr. Bob Bell, Regional Fisheries Biologist
Idaho Fish & Game Department
Region #4
P. O. Box 428
Jerome, Idaho 83338

Re: Application for Permit No. 37-7865

Dear Mr. Bell:

Please find enclosed a copy of the above referenced application for permit for your information and files.

Sincerely,

Mary A. Hill
Secretary

for

Loren O. Holmes
Southern Region Supervisor

Encl:

RECEIVED
NOV 20 1980
SOUTHERN REGION



STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
SOUTHERN REGION

John V. Evans
Governor

C. Stephen Allred
Director

1041 Blue Lakes Blvd. North
Twin Falls, Idaho 83301
(208) 734-3578

November 17, 1980

Mr. Reid Newby
Watermaster District 37
Box T
Shoshone, Idaho 83352

Re: Application for Permit No. 37-7865

Dear Mr. Newby:

Enclosed is a copy of the above referenced application for permit which was received in this office November 4, 1980, for your information and files.

Sincerely,

Mary A. Hill
Secretary

for

Loren O. Holmes
Southern Region Supervisor

Encl:

MICROFILMED



STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
SOUTHERN REGION

John V. Evans
Governor

C. Stephen Allred
Director

1041 Blue Lakes Blvd. North
Twin Falls, Idaho 83301
(208) 734-3578

November 17, 1980

Mr. Vernon F. Ravenscroft
P. O. Box 893
Boise, Idaho 83701

Re: Application for Permit No. 37-7865

Dear Mr. Ravenscroft:

Enclosed is your receipt No. 16660 for check No. 92-38 in the amount of \$1,525.00 for the above reference application for permit which was received in this office November 5, 1980.

As per our letter of November 13, 1980, a refund of \$150.00 will be sent to you from our state office for overpayment of application.

If you have any questions concerning this matter, please feel free to contact this office.

Sincerely,

Mary A. Hill
Secretary

for

Loren O. Holmes
Southern Region Supervisor

Encl:

RECEIVED
NOV 20 1980
SOUTHERN REGION
DEPARTMENT OF WATER RESOURCES
STATE OF IDAHO



STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
SOUTHERN REGION

John V. Evans
Governor

C. Stephen Allred
Director

1041 Blue Lakes Blvd. North
Twin Falls, Idaho 83301
(208) 734-3578

November 13, 1980

Mr. Vernon F. Ravenscroft
P. O. Box 893
Boise, Idaho 83701

Re: Application for Permit

Dear Mr. Ravenscroft:

We are in receipt of your application for 130 cfs of water from the Malad River for the purpose of power generation.

We have commenced processing of your application, however, since your application is over 25 cfs and is for power production the following items must be submitted for inclusion with your application before it can be forwarded for final action by the Director:

- 1) A completed affidavit of residency (form enclosed).
- 2) A detailed estimate of the construction costs. This must include estimated costs of each major component of the construction plans.
- 3) A statement of applicants financial resources and the means by which the funds necessary to construct the facility are to be provided. This information will be reviewed in confidence and returned to you.
- 4) Preliminary plans for the project showing proposed locations and elevations of intake generating unit, and location of discharge back to stream.
- 5) Proof of possessory interest in the land upon which the water is to be used. This may be in the form of a copy of a warranty deed, title report, sale or lease agreement, or tax notice, giving ownership and legal description of the property.

It is estimated that the advertising and protest period, as required by statute, will take until December 15, 1980.

If the necessary information is received before that date, there should be no additional delay.

RECEIVED
NOV 15 1980
TWIN FALLS, IDAHO

The fee submitted with your application was for \$150.00 more than the statutory requirement. A refund of the excess amount will be sent to you in the near future.

If you have any questions, please feel free to contact this office.

Sincerely,

Terry G. Blau
Senior Water Resource Agent

TGB:

Encl:

Microfilm

INTER-DEPARTMENT MEMO — 1

FROM Terry Blau

DATE 11-12-80

TO Randi Sanders

SUB Filing Fee Refund

ON 10-30-80 the state office received an application from Vernon Ravenscroft for 130 EFS for Power Production. Enclosed was a check for 1525.⁰⁰ The filing fee for that amount should be 1375.⁰⁰ I talked with Mr. Ravenscroft and found that he had used the wrong formula on the Fee Schedule to calculate the required fee. I am enclosing a copy of the application & the receipt. Please make a refund of 150.⁰⁰ to Mr. Ravenscroft.

Terry

SIGNATURE