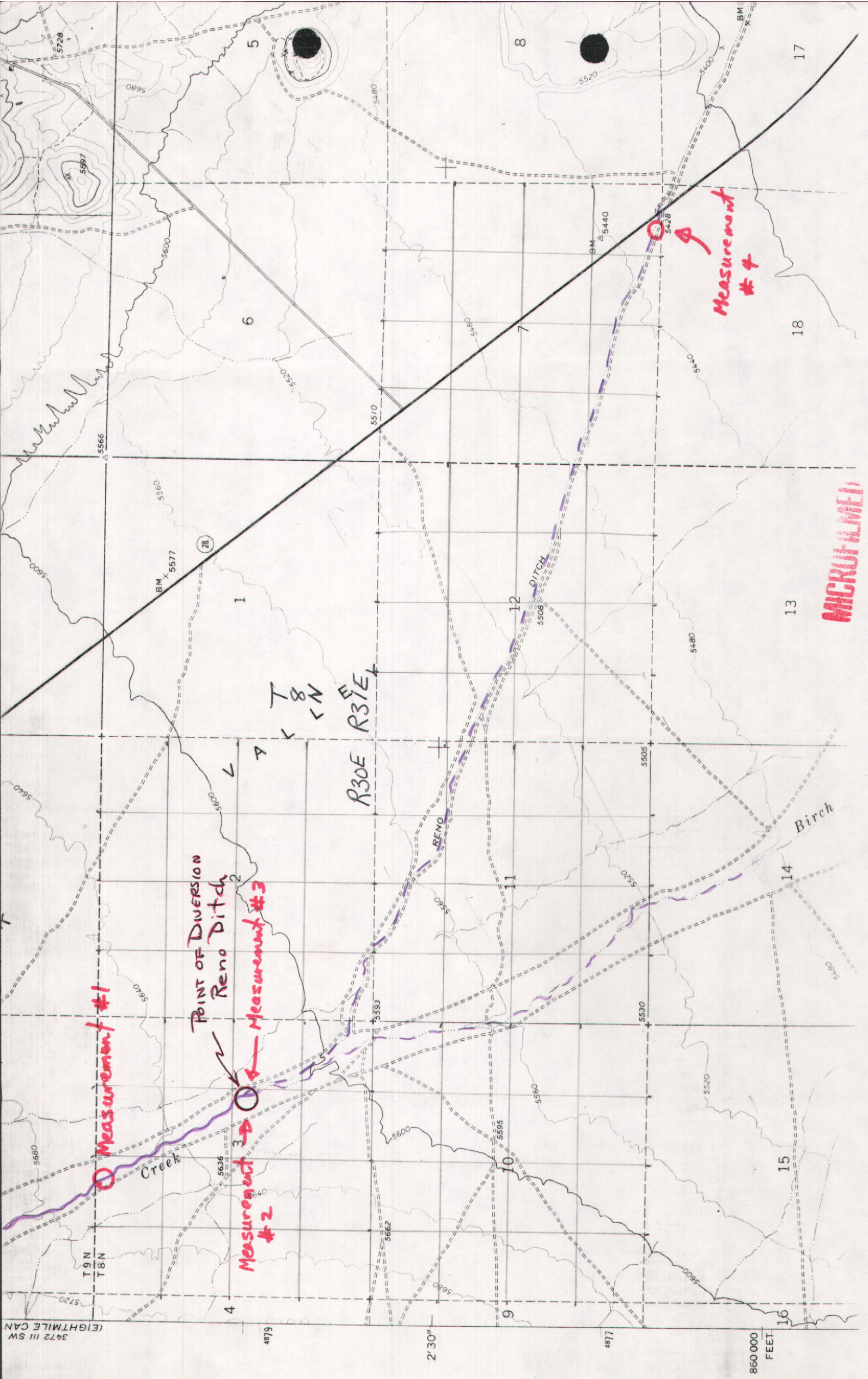




The REXBURG STANDARD and
The REXBURG JOURNAL
REXBURG, IDAHO

Affidavit of Publication

STATE OF IDAHO }
County of Madison } ss.

I, Terry Weatherston,
being first duly sworn, depose and say,
that I am the printer of THE REXBURG

Journal, a newspaper printed and
published weekly at Rexburg, Madison
County, Idaho; and I do solemnly swear
that the

Notice of Claims to Water Rights

a copy of which notice appears attached
hereto, was published in the regular and
entire issue of said newspaper, and not in

any supplement issue thereof for two
consecutive issues, the first publication hav-

ing been made on May 17, 1984
and the last publication having been made

on May 24, 1984

Further, that said newspaper is one of
general circulation in said county; that it
is a legal newspaper, conforming to legal
specifications under the Idaho Statutes; that
it has at least two hundred bona fide sub-
scribers living within the county of publica-
tion; and that it has been continuously and
uninterruptedly published in said county dur-
a period of seventy-eight consecutive weeks
prior to the first publication of the said not-
ice.

Terry Weatherston

Subscribed to and sworn to before me

this 25 May 1984

Jeri Garner
(SEAL) Notary Public.

My commission expires Life

**NOTICE OF CLAIMS
TO WATER RIGHTS**

The following claim(s) have been filed on
water right(s) created by diversion and
beneficial use:

31-4133

HAGENBARTH, MARGARET &/or DAVID
J. &/or JAMES F.

P.O. BOX 1128, DILLON, MT 59725

Source: WOODY HEADQUARTERS
SPRING trib. to SINKS

Priority Date: 10/01/1943

Diversion Pt: SESE Sec 09 T 13N R 40E

Use: IRRIGATION (1.00 CFS) STOCK-
WATER (0.05 CFS)

In: SESW NESE NWSE SESE Sec
10 T 13N R 40E NWSW SWSW SESW
NESE SWSE SESE Sec 11 T 13N R 40E
NESW NWSW SWSW Sec 12 T 13N R 40E
NENE NWNE NENW NWNW Sec 14 T 13N R
40E NENE NWNE Sec 15 T 13N R 40E FOR
434 ACRES

32-4062

U.S. DEPT. OF INTERIOR, BUREAU OF
LAND MGMT.

IDAHO STATE OFFICE, 3380
AMERICANA TERRACE, BOISE, ID 83706

Source: BIRCH CREEK, trib. to RENO
DITCH

Priority Date: 06/28/1934

Diversion Pt: SWSW SESW Sec 02 T 08N
R 30E NWNE SWNE NENW NESE NWSE
SESE Sec 03 T 08N R 30E NENE NWNE
SWNE SENE NENW Sec 11 T 08N R 30E
SWNW SENW NESW NESE NWSE Sec 12 T
08N R 30E NWSW SWSW SESW SWSE
SESE Sec 07 T 08N R 31E

Use: STOCKWATER (0.32 CFS)
WILDLIFE (0.02 CFS)

In: SWSW SESW Sec 02 T 08N R 30E
NWNE SWNE NENW NESE NWSE SESE
Sec 03 T 08N R 30E NENE NWNE SWNE
SENE NENW Sec 11 T 08N R 30E SWNW
SENW NESW NESE NWSE Sec 12 T 08N R
30E NWSW SWSW SESW SWSE SESE Sec
07 T 08N R 31E

31-4134

HAGENBARTH, MARGARET &/or DAVID
J. &/or JAMES F.

P.O. BOX 1128, Dillon, MT 59725

Source: SPRING trib. to SINKS

Priority Date: 10/01/1943

Diversion Pt: SESW Sec 10 T 13N R 40E

Use: IRRIGATION (1.00 CFS) STOCK-
WATER (0.05 CFS)

In: SESW SWSE SESE Sec 10 T 13N R
40E SWSW SESW Sec 11 T 13N R 40E
NWNE NENW NWNW Sec 14 T 13N R 40E
NENE NWNE Sec 15 T 13N R 40E FOR 176
ACRES

Exceptions to a claim may be filed with the
Director, Dept. of Water Resources, 150
Shoup Ave., Suite 15, Idaho Falls, Idaho
83402.

KEN DUNN
Director

Publ. May 17 and 24, 1984J

RECEIVED

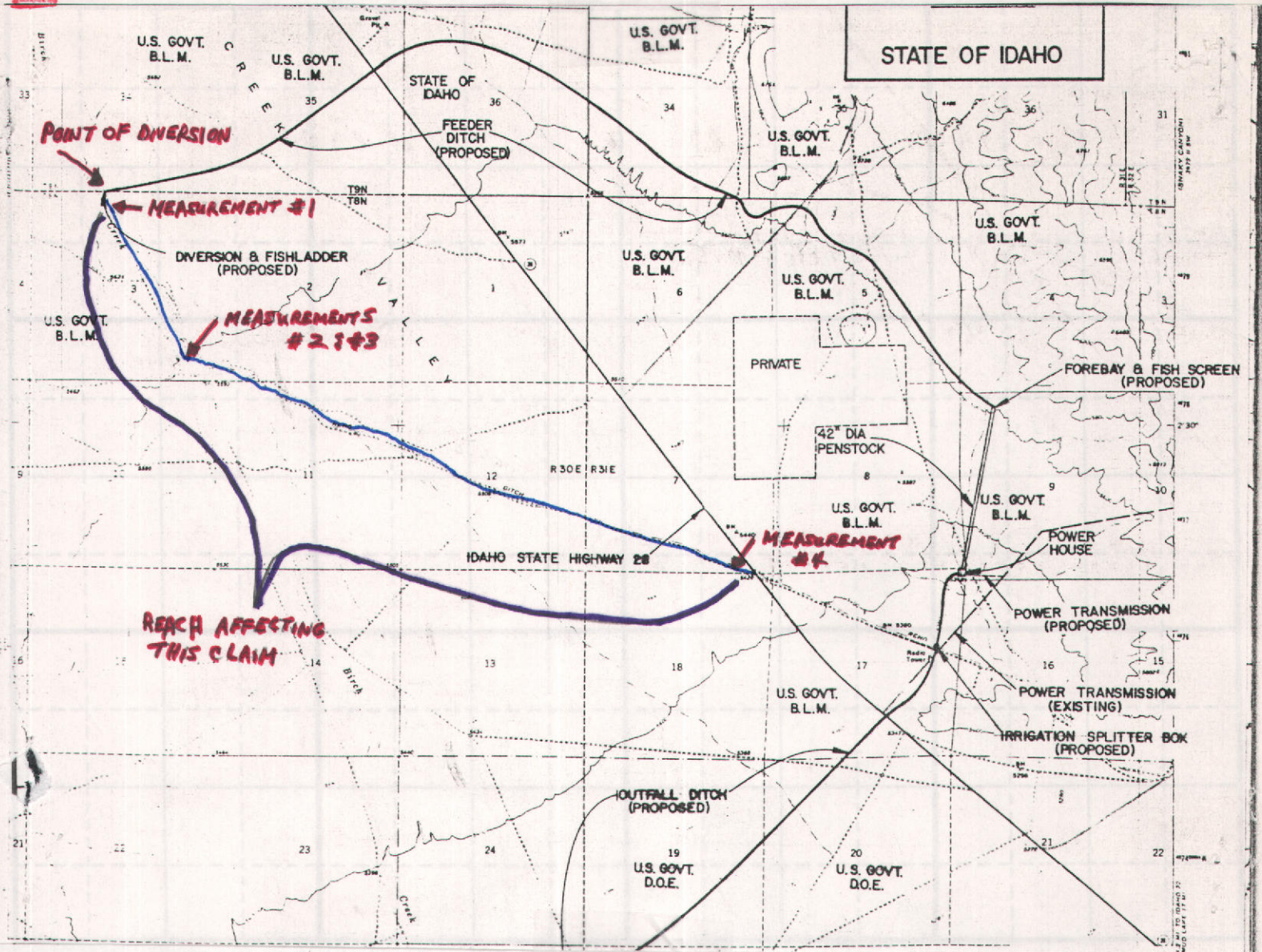
JUN 26 1984

Department of Water Resources
Eastern District Office

MICROFILMED

RECORDED

(8) Remarks Executive Order 11990 requires maintenance of existing river overflow areas along streams. This use constitutes a beneficial use under existing federal law. Channel loss flow is required to carry water thru the reach of historical beneficial use.



Scale: 2 inches equal 1 mile.

Map should show the location of the point of diversion and the place of use of the water by 40-acre subdivisions, section, township and range of the public land survey system.

State of Idaho)
County of BONNIVILLE) ss.

Be it known that the undersigned, being duly sworn, deposes and says that he, she, they subscribed the foregoing claim to a water right, together with all attached information, and that the matters and facts therein are true to the best of the affiant's knowledge.

Ordel A. Jarama
(Claimant)

Sworn to before me this 10 day of APRIL

Marta E. Portman
Notary Public
Residing at 940 LINCOLN RD.
IDAHO FALLS, IDAHO
83401

My commission expires JAN. 17, 1988

FOR DEPARTMENT USE ONLY

Received by <u>CW</u>	Date <u>4-10-84</u>	Exception filed by:	Forwarded to	Date
Prelim. check by <u>CW</u>	Date <u>4-10-84</u>		claimant by:	
\$20.00 fee received by <u>CW</u>	Date <u>4-10-84</u>			
Published in <u>#33612</u>				
Dates				

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
CLAIM TO A WATER RIGHT



Under the provisions of Section 42-243, Idaho Code, any person using or claiming rights to the public waters of Idaho established by diversion and application to a beneficial use must file a claim with the Department of Water Resources on or before June 30, 1983. Exempted from this filing are single family domestic uses as defined in Section 42-230(d), Idaho Code. Also exempted are rights represented by a permit, license, decree, adjudicated right, or a previously filed claim.

The filing of this claim does not confirm the water right claimed but failure to file may result in forfeiture of a water right.

Notice is hereby given that Bureau of Land Management
(Name of Claimant)
940 Lincoln Rd. Idaho Falls, ID 83401 Telephone No. 529-1020
(Mailing Address) (Zip Code)

claims a right to the diversion and beneficial use of the surface or ground water. The extent and nature of said claim is as follows: (48 Stat 1269, 43 USC)
(1) Date of priority: (When was the water first applied to a beneficial use) June 28, 1934 (315, Taylor Grazing Act)

A claim is not acceptable on a ground water source with a priority later than March 25, 1963 or on a surface water source with a priority later than May 20, 1971. An exception is that a claim may be filed on single family domestic use from a ground water source.

(2) Describe the source of water: (Name of stream, lake, spring, etc., or ground water)
Birch Creek tributary to Reno Ditch
(3) Describe the purpose for which the water has been used and the time during the year when you have used the right claimed:

	(cfs. ☒)	(Domestic, Irrigation, Stock, Etc.)	(Both dates inclusive)	
			(Mo., Day)	(Mo., Day)
Quantity	<u>.32</u>	Use <u>Livestock</u>	Period of Use From <u>4-20</u>	To <u>12-23</u>
Quantity	<u>.02</u>	Use <u>Wildlife</u>	Period of Use From <u>1-1</u>	To <u>12-31</u>
Quantity	<u>4.20</u>	Use <u>Channel losses*</u>	Period of Use From <u>1-1</u>	To <u>12-31</u>
Quantity	<u>4.54</u>	Use <u>Wildlife Riparian</u>	Period of Use From <u>1-1</u>	To <u>12-31</u>
Quantity		Use <u>Hab. Prod.</u>	Period of Use From	To
(4)	<u>4.54</u>	TOTAL QUANTITY USED.		

(cfs. ☒)

(5) A) Point of diversion: (Location of point where water is diverted from its source) SEE ITEM #6A
1/4 1/4, Sec. 1 Twp. 1 Rge. 1 B.M., County of 1
Additional points of diversion: Point of diversion is the same as place of use.

B) Describe means of diversion of water: (Pump and pipeline, well, diversion dam, reservoir, length of ditch and field, etc.). Give sizes and capacities: be as specific as possible. Describe any changes in the system and give the date of the change. Livestock and wildlife use from open channel; Reach from proposed diversion for Birch Creek Hydropower Feeder Ditch downstream and thru Reno Ditch to the Highway 28 bridge on Reno Ditch.

(6) A) Describe location of use by listing number of irrigated acres within each 40-acre tract in appropriate box. If use is not for irrigation, place an "X" in appropriate box to show location.

T	R	SEC.	NE¼				NW¼				SW¼				SE¼				TOTAL
			NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	
8N	30E	2											X	X					
		3		X	X		X								X	X		X	
		11	X	X	X	X	X												
		12							X	X	X				X	X			
8N	31E	7									X	X	X				X	X	

No. of acres _____

B) If water is used for other than irrigation, fully describe that use, being as specific as possible: Historical use by authorized range livestock (by permit). Present use includes the following: 246 C, 5/16-7/15 (Wagoner); 1200 S, 4/20-6/30; 3450 S, 12/11-2/28 (Ball Bros.); 342 C, 5/16-7/15 (Simmons); 375 C, 6/16-6/18 / 575 C, 12/21-12/23 (Woodie Land and Livestock). Wildlife use includes 1500 antelope and sage grouse.

NOTE: Include here the type and number of stock watered: C = Cattle S = Sheep

(7) If you are claiming water as a member of an organization, list name of organization: Bureau of Land Management

*For channel losses see enclosed measurements for specific loss data. All measurements were rated good to excellent under steady stage flows.

- (8) Remarks Executive Order 11990 requires maintenance of existing river overflow areas along streams. This use constitutes a beneficial use under existing federal law. Channel loss flow is required to carry water thru the reach of historical beneficial use.

Scale: 2 inches equal 1 mile.

3472 III SW
(EIGHTMILE CAN)

T9N
T8N

Creek

POINT OF DIVERSION
Reno Ditch

3.

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4879

2'30"

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The REXBURG STANDARD and
The REXBURG JOURNAL
REXBURG, IDAHO

Affidavit of Publication

STATE OF IDAHO }
County of Madison } ss.

I, Terry Weatherston,
being first duly sworn, depose and say,
that I am the printer of THE REXBURG

Journal, a newspaper printed and
published weekly at Rexburg, Madison
County, Idaho; and I do solemnly swear
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Notice of Claims to Water Rights

a copy of which notice appears attached
hereto, was published in the regular and
entire issue of said newspaper, and not in

any supplement issue thereof for two
consecutive issues, the first publication hav-

ing been made on May 17, 1984
and the last publication having been made
on May 24, 1984

Further, that said newspaper is one of
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uninterruptedly published in said county dur-
a period of seventy-eight consecutive weeks
prior to the first publication of the said not-
ice.

Terry Weatherston

Subscribed to and sworn to before me

this 25 May 1984

Jeri Garner
(SEAL) Notary Public.

My commission expires Life

RECEIVED

JUN 26 1984

**NOTICE OF CLAIMS
TO WATER RIGHTS**

Department of Water Resources
Eastern District Office

The following claim(s) have been filed on
water right(s) created by diversion and
beneficial use:

31-4133

HAGENBARTH, MARGARET &/or DAVID
J. &/or JAMES F.

P.O. BOX 1128, DILLON, MT 59725

Source: WOODY HEADQUARTERS
SPRING trib. to SINKS

Priority Date: 10/01/1943

Diversion Pt: SESE Sec 09 T 13N R 40E

Use: IRRIGATION (1.00 CFS) STOCK-
WATER (0.05 CFS)

In: SESW NESE NWSE SWSE SESE Sec
10 T 13N R 40E NWSW SWSW SESW
NESE SWSE SESE Sec 11 T 13N R 40E
NESW NWSW SWSW Sec 12 T 13N R 40E
NENE NWNE NENW NWNW Sec 14 T 13N R
40E NENE NWNE Sec 15 T 13N R 40E FOR
434 ACRES

32-4062

U.S. DEPT. OF INTERIOR, BUREAU OF
LAND MGMT.

IDAHO STATE OFFICE, 3380
AMERICAN TERRACE, BOISE, ID 83706

Source: BIRCH CREEK, trib. to RENO
DITCH

Priority Date: 06/28/1934

Diversion Pt: SWSW SESW Sec 02 T 08N
R 30E NWNE SWNE NENW NESE NWSE
SESE Sec 03 T 08N R 30E NENE NWNE
SWNE SENE NENW Sec 11 T 08N R 30E
SWNW SENW NESW NESE NWSE Sec 12 T
08N R 30E NWSW SWSW SESW SWSE
SESE Sec 07 T 08N R 31E

Use: STOCKWATER (0.32 CFS)
WILDLIFE (0.02 CFS)

In: SWSW SESW Sec 02 T 08N R 30E
NWNE SWNE NENW NESE NWSE SESE
Sec 03 T 08N R 30E NENE NWNE SWNE
SENE NENW Sec 11 T 08N R 30E SWNW
SENW NESW NESE NWSE Sec 12 T 08N R
30E NWSW SWSW SESW SWSE SESE Sec
07 T 08N R 31E

31-4134

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J. &/or JAMES F.

P.O. BOX 1128, Dillon, MT 59725

Source: SPRING trib. to SINKS

Priority Date: 10/01/1943

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Use: IRRIGATION (1.00 CFS) STOCK-
WATER (0.05 CFS)

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40E SWSW SESW Sec 11 T 13N R 40E
NWNE NENW NWNW Sec 14 T 13N R 40E
NENE NWNE Sec 15 T 13N R 40E FOR 176
ACRES

Exceptions to a claim may be filed with the
Director, Dept. of Water Resources, 150
Shoup Ave., Suite 15, Idaho Falls, Idaho
83402.

KEN DUNN
Director

Publ. May 17 and 24, 1984J

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
Eastern Region

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

JUNE 4, 1984

BUREAU OF LAND MGMT. U.S. DEPT. OF INTERIOR
IDAHO STATE OFFICE
3380 AMERICANA TERRACE
BOISE ID 83706

RE: Claim No. 32-4062

Dear Claimant:

The Department of Water Resources has completed the advertising of your claim to a water right, and no further action is authorized under Section 42-243 and 42-244, IDAHO CODE. Your claim will be retained in our files and will be available at any time for use by you or the court.

The filing and advertising of the claim does not confirm the water right claimed, but will serve to record and preserve the information and the evidence which you included in your claim.

If, at a later date, you find that you have additional information or supporting evidence that you would like to have included with the claim, you may have that information or evidence added at any time. Please refer to the claim identification number when corresponding with this office.

We are enclosing a copy of your claim for your records. If you have questions, or if this office may be of further assistance, please feel free to contact us.

Yours truly,

RONALD D. CARLSON
Eastern Region Supervisor

Enclosure

MICROFILMED



STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
EASTERN REGION

John V. Evans
Governor

A. Kenneth Dunn
Director

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

June 7, 1984

RE: Claim to a Water Right No. 31-4133 HAGENBARTH
31-4134 "
32-4062 BLM

Standard Journal
P.O. Box 310
Rexburg, ID 83440

Gentlemen:

Would you please submit an affidavit of publication and certified bill in connection with the above referenced application(s). The legal notice was to have been published in your paper on May 17 and 24, 1984.

Your cooperation in this matter is greatly appreciated.

Very truly yours,

COLLEEN WRAY
Adm. Secretary

MICROFILMED

May 10, 1984

RE: Claim to a Water Right No. 32-4062 BLM

Ben Wilding, Watermaster
Water District No. 32-D
~~State~~ Route
Dubois, ID 83423

Dear Mr. Wilding:

Enclosed, for your information only, is a copy of the above referenced claim to a water right filed within your district. If you have any questions concerning this matter, please feel free to contact this office.

Very truly yours,

ERNEST CARLSEN
Assistant Regional Supervisor

EC:cw

Enclosure

State of Idaho
Department of Water Resources

CLAIM ANALYSIS SHEET

INITIAL REVIEW BY: HWS

Right Number 32 4062 Applicant BLM

NOTE: IF ANY OF THE ITEMS BELOW ARE MISSING, THE CLAIM IS INCOMPLETE AND MUST BE RETURNED IMMEDIATELY TO THE CLAIMANT ALONG WITH THE APPROPRIATE COVER LETTER.

CHECK:

- ☒ Name and address.
- ☒ Date of priority. (Check for a date past the mandatory filing dates.) (One date only.)
- ☒ Source.
- ☒ Quantity, use, period.
- ☒ Point(s) of diversion.
- ☒ Location of use.
- ☒ Signature/notarization/fee.

FINAL REGIONAL PROCESSING REVIEW:

- ☒ Affidavit of publication received.
- ☒ Claim published correctly.
- ☒ Exceptions processed.

By Ernest Carlson Date 6-27-1984

STATE OFFICE PROCESSING:

- ☒ Claim review complete.

By SC Date 7/6/84

MICROFILMED

RECEIVED
JUL 06 1984

Department of Water Resources

U.S. DEPT. OF INTERIOR, BUREAU OF LAND MGMT.

IDAHO STATE OFFICE, 3380 AMERICANA TERRACE, BOISE, ID 83706

Source: BIRCH CREEK trib. to RENO DITCH

Priority Date: 06/28/1934

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 NESW NESE NWSE Sec 12 T 08N R 30E NWSW SWSW SESW SWSE SESE
 Sec 07 T 08N R 31E

MICROFILMED

April 23, 1984

Bureau of Land Management
940 Lincoln Rd.
Idaho Falls, ID 83402

Dear Sir:

Enclosed is a retyped claim that was compiled from the claim that was submitted to this office, a copy of the original claim with changes noted in red, and a copy of the USGS map of the affected reach of the claim.

You may wish to use the enclosed USGS map to indicate location of measurement sites and attach to the claim instead of the smaller one that was used on the original claim.

Please review the claim, sign in front of a notary and return to this office as soon as possible.

Feel free to contact this office for any additional assistance that may be needed.

Sincerely,

KEITH C. WILSON
Sr. Resource Agent

KCW:jk

Enclosures

MICROFILMED



United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Idaho Falls District
940 Lincoln Road
Idaho Falls, Idaho 83401

IN REPLY
REFER TO: 7250

Mr. Ernest Carlson
Assistant Regional Supervisor, Eastern Region
State of Idaho, Department of Water Resources
150 Shoup Suite 15
Idaho Falls, ID 83402

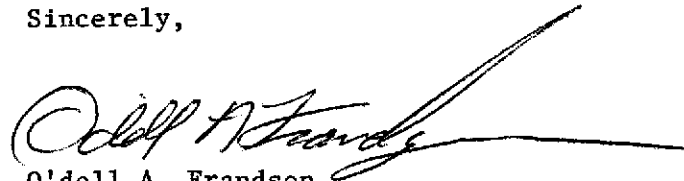
Dear Mr. Carlson:

We are submitting the enclosed claim for BLM beneficial uses on Birch Creek below the proposed diversion for the Birch Creek Hydropower system (applications #32-7128 and #32-7136). Please prepare a file for this claim. We will be submitting affidavits and records in the near future for placement in this file.

In our review of the Birch Creek hearing testimony of April 5, 1984 on applications #32-7128 and #32-7136, we had some questions arise as to the impact of any decision on the pending Swan Falls case. Since the "new" water saved by the Birch Creek project is actually water which is to be artificially held on the surface through use of a sealant, it probably could be construed to be water taken from normal "Snake Plain Aquifer" recharge.

We hope that these concerns could be clarified when a Hearing Board decision is issued.

Sincerely,


O'dell A. Frandsen
District Manager

MICROFILMED

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
CLAIM TO A WATER RIGHT



Under the provisions of Section 42-243, Idaho Code, any person using or claiming rights to the public waters of Idaho established by diversion and application to a beneficial use must file a claim with the Department of Water Resources on or before June 30, 1983. Exempted from this filing are single family domestic uses as defined in Section 42-230(d), Idaho Code. Also exempted are rights represented by a permit, license, decree, adjudicated right, or a previously filed claim.

The filing of this claim does not confirm the water right claimed but failure to file may result in forfeiture of a water right.

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(Name of Claimant)
940 Lincoln Road, Idaho Falls, ID 83401 Telephone No. 529-1020
(Mailing Address) (Zip Code)

claims a right to the diversion and beneficial use of the surface or ground water. The extent and nature of said claim is as follows: (48 Stat 1269, 43 U.S.C.)

(1) Date of priority: (When was the water first applied to a beneficial use) June 28, 1934 (315, Taylor Grazing Act)

A claim is not acceptable on a ground water source with a priority later than March 25, 1963 or on a surface water source with a priority later than May 20, 1971. An exception is that a claim may be filed on single family domestic use from a ground water source.

(2) Describe the source of water: (Name of stream, lake, spring, etc., or ground water)
Birch Creek tributary to Reno Ditch

(3) Describe the purpose for which the water has been used and the time during the year when you have used the right claimed:

(cfs, gpd, AFA)		(Domestic, Irrigation, Stock, Etc.)		(Both dates inclusive)	
				(Mo., Day)	(Mo., Day)
Quantity	<u>.32 cfs</u>	Use	<u>Livestock</u>	Period of Use From	<u>04/20</u> To <u>12/23</u>
Quantity	<u>.02 cfs</u>	Use	<u>Wildlife</u>	Period of Use From	<u>01/01</u> To <u>12/31</u>
* Quantity	<u>4.20 cfs</u>	Use	<u>Channel percolation</u>	Period of Use From	To
Quantity		Use	<u>losses to point of final use</u>	Period of Use From	To
Quantity	<u>4.54 cfs</u>	Use	<u>Wildlife Riparian</u>	Period of Use From	<u>01/01</u> To <u>12/31</u>
(4)	<u>4.54 cfs</u>	TOTAL QUANTITY USED: Hab. Prod.			

(5) A) Point of diversion: (Location of point where water is diverted from its source)
NE 1/4 NW 1/4, Sec. 3 Twp. 8N Rge. 30E B.M., County of Clark
Additional points of diversion: SE 1/4, SE 1/4, Sec. 7, T. 8 N., R. 31 E.

B) Describe means of diversion of water: (Pump and pipeline, well, diversion dam, reservoir, length of ditch and field, etc.). Give sizes and capacities: be as specific as possible. Describe any changes in the system and give the date of the change. Livestock and wildlife use from open channel - Reach from proposed diversion for Birch Creek Hydropower Feeder Ditch downstream and thru Reno Ditch to the Highway 28 bridge on Reno Ditch.

(6) A) Describe location of use by listing number of irrigated acres within each 40-acre tract in appropriate box. If use is not for irrigation, place an "X" in appropriate box to show location.

T	R	SEC.	NE 1/4				NW 1/4				SW 1/4				SE 1/4				TOTAL
			NE 1/4	NW 1/4	SW 1/4	SE 1/4	NE 1/4	NW 1/4	SW 1/4	SE 1/4	NE 1/4	NW 1/4	SW 1/4	SE 1/4	NE 1/4	NW 1/4	SW 1/4	SE 1/4	

No. of acres _____

B) If water is used for other than irrigation, fully describe that use, being as specific as possible: Historical use by authorized range livestock (by permit). Present use includes the following: 246 C 5/16 - 7/15 (Wagoner), 1200 S, 4/20 - 6/30, 3,450 S 12/11 - 2/28 (Ball Bros.) 342 C 5/16 - 7/15 (Simmons), 375 C 6/16 - 6/18 - 575 C 12/21 - 12/23 (Woodie Land and Livestock). Wildlife use includes 1,500 antelope and sage grouse.

NOTE: Include here the type and number of stock watered: See above.

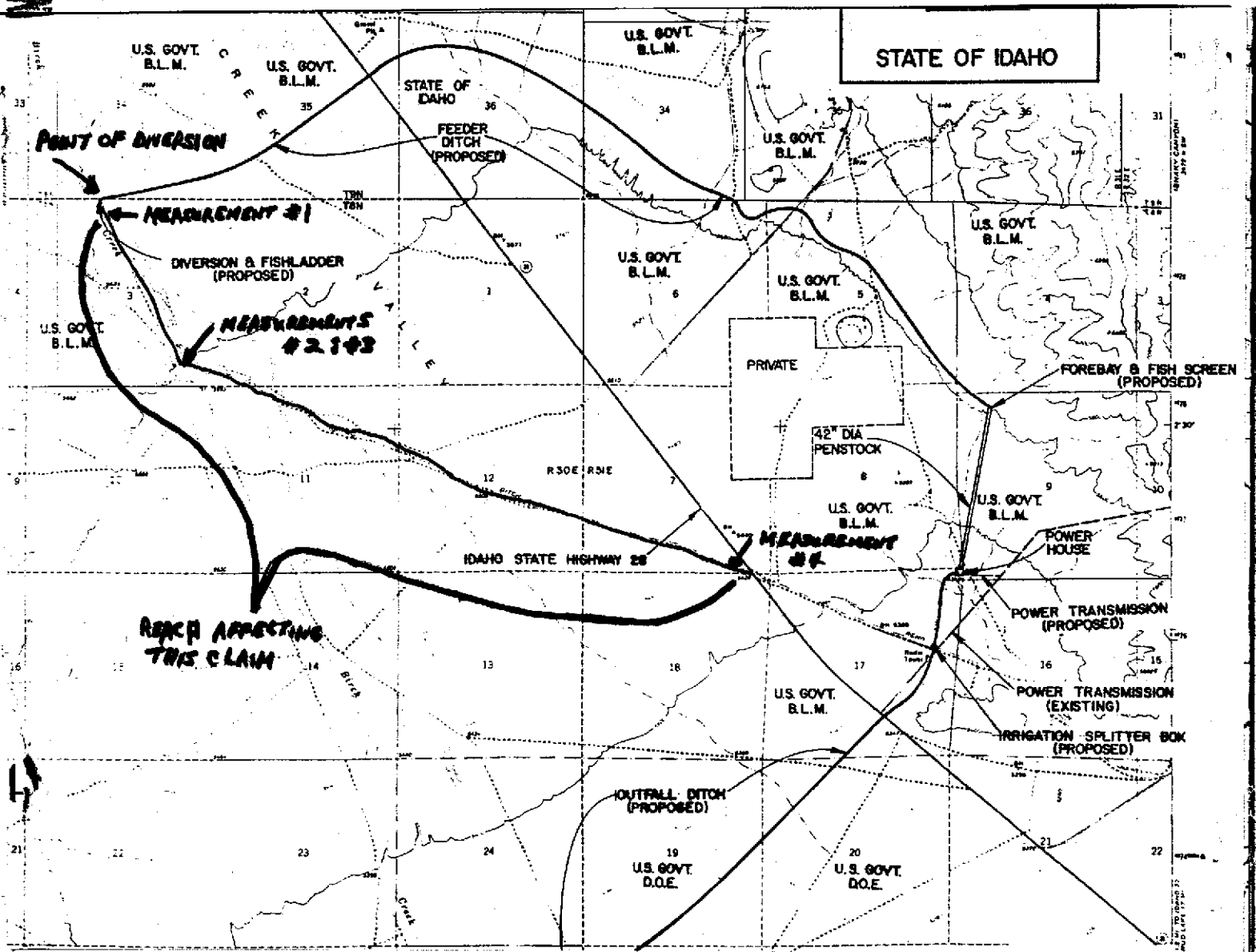
(7) If you are claiming water as a member of an organization, list name of organization: Bureau of Land Management

*Note - See channel loss measurements enclosed for specific loss data. All measurements were rated good to excellent under steady stage flows.

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- (8) Remarks Executive Order 11990 requires maintenance of existing river overflow areas along streams. This use constitutes a beneficial use under existing federal law. Channel loss flow is required to carry water thru the reach of historical beneficial use.



Scale: 2 inches equal 1 mile.

Map should show the location of the point of diversion and the place of use of the water by 40-acre subdivisions, section, township and range of the public land survey system.

State of Idaho)
County of BONNIVILLE) ss.

Be it known that the undersigned, being duly sworn, deposes and says that he, she, they subscribed the foregoing claim to a water right, together with all attached information, and that the matters and facts therein are true to the best of the affiant's knowledge.

Orvil A. Jenson
(Claimant)

Sworn to before me this 10 day of APRIL, 1983

Mark E. Portman
Notary Public
Residing at 940 LINCOLN RD.
IDAHO FALLS, IDAHO 83401

My commission expires JAN. 17, 1988

FOR DEPARTMENT USE ONLY

Received by <u>OW</u>	Date <u>4-10-84</u>	Exception filed by:	Forwarded to	Date
Prelim. check by <u>OW</u>	Date <u>4-10-84</u>		claimant by:	
\$20.00 fee received by <u>OW</u>	Date <u>4-10-84</u>			
Published in	<u>#33612</u>			
Dates				

Birch Creek at Hole 10/14/82

✓ CS82T

Measurer
Notes

(Hydrologist)
J. Esget
Virgil Moore

Measurement #1

59.

.6 mi Stream between Measurements -

This measurement taken just below the proposed diversion for the Birch Creek Hydropower Project, at the fence.

River at—											
Angle and Location	Dist. from initial point	Width	Depth	Observed direction	Revol- utions	Time in sec- onds	VELOCITY		Adjusted for hor. angle or vertical	Area	Discharge
							At point	Mean in ver- tical			
0.5	.50	0	LEN @ 1233							0	0
.98 1.5	.90	.45		40	44		2.03	1.99		.40	.81
	2.3	.75	.45		50	42	2.65			.84	.89
	3.0	.70	.50		40	44	2.03			.35	.71
.98 3.7	.75	.35		60	41		3.26	3.19		.26	.84
	4.5	.65	.75		100	54	4.12			.49	2.01
.99 5.0	.50	.60		100	54		4.12	4.08		.30	1.22
.97 5.5	.50	.85		70	46		3.39	3.29		.42	1.40
.99 6.0	.50	1.05		100	57		3.91	3.87		.52	2.03
.98 6.5	.50	1.05		100	50		4.45	4.36		.52	2.29
	7.0	.50	1.00		100	53	4.20			.50	2.10
	7.5	.50	1.00		100	59	3.77			.50	1.88
	8.0	.50	.95		100	55	4.05			.48	1.92
	8.5	.50	1.05		100	47	4.74			.52	2.49
9.0	.50	1.15		100	46		4.84			.58	2.78
.99 9.5	.50	1.10		100	49		4.54	4.49		.55	2.47
.98 10.0	.50	1.05		100	58		3.84	3.76		.52	1.97
.99 10.5	.50	1.05		100	56		3.98	3.94		.52	2.07
.99 11.0	.50	.90		100	51		4.36	4.32		.45	1.94
.98 11.5	.65	.90		100	53		4.20	4.12		.58	2.41
	12.3	.75	.90		80	51	3.49			.68	2.36
	13.0	.85	.75		80	52	3.42			.64	2.18
	14.0	1.25	.55		40	46	1.95			.69	1.34
.98 15.5	1.50	.40		20	42		1.07	1.05		.60	.63
.98 17.0	1.50	.35		25	48		1.18	1.16		.52	.61
.98 18.5	1.50	.40		30	46		1.47	1.44		.60	.86
.94 20	1.00	.43		50	48		2.33	2.19		.43	.94
.97 20.5	.65	.48		50	42		2.65	2.57		.31	.80
	21.3	.75	.48		25	44	1.28			.36	.46
	22.0	.70	.48		40	46	1.95			.34	.66
	22.7	.75	.48		60	41	3.26			.36	1.17
.98 23.5	.80	.55		60	51		2.62	2.57		.44	1.13
24.3	.75	.55		40	39		2.28			.41	.94
.97 25.0	.85	.55		50	47		2.38	2.31		.47	1.08
26.0	.90	.60		25	44		1.28			.54	.69
26.3	.40	REW @ 1320					0			0	0
26.3	26.3										50.08

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Birch Cr. & Reno Ditch 10/14/82

Esget Water Temp 52°F

.7 cfs loss

Channel

Measurement #2

Loss between the proposed hydropower diversion and Reno Ditch = $50.08 - 49.37 \approx .7$ cfs

Angle from initial point	Dist. from initial point	Width	Depth	Revol- utions	Time in sec- onds	VELOCITY		Adjusted for hor. angle or -----	Area	Discharge	Station
						At point	Mean in ver- tical				
	2.1	.25	0	LEW@					0	0	
	2.6	.60	.75	20	40		1.13		.45	.51	.25
.97	3.3	.70	.95	60	47		2.84	2.75	.66	1.83	.26
.97	4.0	.60	1.00	80	48		3.71	3.60	.60	2.16	.27
	4.5	.50	1.15	80	48		3.71		.58	2.13	.28
	5.0	.50	1.15	80	52		3.42		.58	1.97	.29
	5.5	.50	1.15	60	41		3.26		.58	1.87	.30
	6.0	.50	1.10	60	40		3.34		.55	1.84	.31
.99	6.5	.50	1.10	80	47		3.79	3.75	.55	2.06	.32
.99	7.0	.50	1.05	60	43		3.11	3.08	.52	1.62	.33
.98	7.5	.50	.95	80	49		3.63	3.56	.48	1.69	.34
	8.0	.50	.95	80	50		3.56		.48	1.69	.35
	8.5	.50	.92	80	50		3.56		.46	1.64	.36
.97	9.0	.625	.85	60	42		3.18	3.08	.53	1.64	.37
.99	9.25	.75	.80	50	41		2.71	2.68	.60	1.61	.38
	10.50	.75	.80	80	51		3.49		.60	2.09	.39
.99	11.25	.75	.80	60	40		3.34	3.31	.60	1.99	.40
	12.00	.75	.70	60	48		2.78		.52	1.46	.41
	12.75	.75	.80	60	42		3.18		.60	1.91	.42
.98	13.50	.75	.95	80	50		3.56	3.49	.71	2.49	.43
.99	14.25	.75	.90	60	41		3.26	3.23	.68	2.18	.44
	15.00	.75	.85	60	40		3.34		.64	2.13	.45
.99	15.75	.75	.80	60	41		3.26	3.23	.60	1.94	.46
.99	16.50	.75	.80	60	45		2.97	2.94	.60	1.76	.47
	17.25	.75	.70	80	51		3.49		.52	1.83	.48
.99	18.00	.75	.75	80	49		3.63	3.59	.56	2.02	.49
	18.75	.75	.60	60	41		3.26		.45	1.47	.50
.98	19.50	.875	.50	50	40		2.78	2.72	.44	1.19	.51
	20.50	1.10	.48	25	46		1.23		.53	.65	.52
	21.70	.60	0	REW@ 1420					0	0	.53
	19.60	19.6								49.37	.54

Note Shocking results of Esget, McCarty and McFahrling on Reno Ditch

10/12/82 showed 1) 0 fish in 100 yards 1 mi upstream from Hwy Crossing.

2) 0 fish in 100 yards 2 mi upstream. " " "

3) 1 fish in 100 yards near diversion (Fish was ≈ 3 " long)

$\Rightarrow$ minimal fishery in Reno Ditch.

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Measurement #3

10/12/82

Measurer (Hydrologist)
J. Esget
Notes G. Dove

Reno ditch - below diversion

Channel
Loss Between
Reno Diversion
and Highway Bridge

38.88
- 35.16
3.72

3.7 cfs

Total losses

.9 cfs Birch Creek Hydr.
To Reno Ditch
Diversion

3.7 cfs Reno Ditch Diversion
to Hwy Bridge

4.2 cfs Total
losses

Note these losses
involve two dates
w/ two stage
heights, however
each loss
measurement
is rated good
to excellent,
and stage was
steady each
date of
measurement.

Point No.	Dist. from initial point	No. Width	Depth	Area	Revol- utions	Time in seconds	VELOCITY		Adjusted for hor. angle or	Area	Discharge
							At point	Mean in ver- tical			
	21.1	1.0	0	.6	0	0		0		0	0
	20.9	.35	.30	1	30	45		.67		.10	.07
	20.4	.45	.45	1	70	41		1.21		.20	.35
	20.0	.45	.58	1	80	41		1.95		.26	.51
	19.5	.50	.66	1	150	56		2.68		.33	.88
	19.0	.50	.75	1	150	45		3.33		.38	1.25
	18.5	.50	.85	1	200	51		3.92		.42	1.67
	18.0	.45	.90	1	150	46		3.26		.40	1.32
	17.6	.40	.80	1	150	44		3.41		.32	1.09
	17.2	.40	.80	1	150	50		3.00		.32	.96
	16.8	.40	.87	1	150	43		3.49		.35	1.22
	16.4	.40	.87	1	150	40		3.75		.35	1.30
	16.0	.40	.95	1	150	41		3.66		.38	1.39
	15.6	.40	.98	1	100	41		2.44		.39	.96
	15.2	.40	.98	1	80	42		1.90		.39	.74
	14.8	.40	.93	1	150	57		2.63		.37	.98
	14.4	.40	.80	1	150	43		3.49		.32	1.12
	14.0	.40	.85	1	150	46		3.26		.34	1.11
	13.6	.40	.83	1	150	40		3.75		.33	1.24
	13.2	.40	.95	1	200	50		4.00		.38	1.52
	12.8	.40	.90	1	200	48		4.17		.36	1.50
	12.4	.40	.95	1	150	44		3.41		.38	1.30
	12.0	.40	.80	1	150	44		3.41		.32	1.09
	11.6	.40	.95	1	150	40		3.75		.38	1.42
	11.2	.40	.90	1	200	51		3.92		.36	1.41
	10.8	.40	.90	1	150	43		3.49		.36	1.26
	10.4	.40	.83	1	150	41		3.66		.33	1.22
	10.0	.40	.80	1	200	50		4.00		.32	1.28
	9.6	.40	.85	1	150	41		3.66		.34	1.24
	9.2	.40	.77	1	150	42		3.57		.31	1.10
	8.8	.40	.88	1	150	46		3.26		.35	1.15
	8.4	.40	.80	1	150	46		3.26		.32	1.04

10/12/62

Kero ditch and - below diversion

Angle and Reflected	Dist. from Initial point	Width	Depth	Observed water depth	Revol- utions	Time in sec- onds	VELOCITY		Adjusted for hor. angle or -----	Area	Discharge	
							At point	Mean in ver- tical				
	8.0	.45	.79	.6	150	41		3.66		.36	1.30	.80
	7.5	.50	.67	}	150	42		3.57		.34	1.20	.81
	7.0	.50	.49	}	150	51		2.94		.24	.92	
	6.5	.50	.47	}	150	54		2.98		.24	.65	
	6.0	.50	.47	}	50	40		1.25		.26	.32	.90
	5.4	.30	.30	0	0	0		0		0	.0	.92
	15.90	RB	15.7	}								.94
		2 16.10		}							38.88	.94
												.97
												.98
												.99
												1.00
												.99
												.98
												.97
												.96
												.94
												.92
												.90
												.88
												.86
												.84
												.82
												.80

9%
loss
rate

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Measurement #4

10/12/82

Reno ditch - near Hwy bridge

Excerpt
Gness
40 CFS

DeVoe
Gness
65 CFS

Angle and Location	Dist. from initial point	Width RB	Depth 1636	Revolutions	Time in seconds	VELOCITY		Adjusted for hor. angle or	Area	Discharge
						At point	Mean in vertical			
	1.9	1.5	1.0	6	—		0		0	0
	2.2	.40	.48	50	44		1.14		.19	.22
	2.7	.50	.32	30	42		.714		.16	.11
	3.2	.50	.46	80	55		1.45		.23	.33
	3.7	.50	.48	150	55		2.73		.24	.66
	4.2	.50	.61	100	42		2.38		.30	.73
	4.7	.50	.67	150	56		2.68		.34	.90
	5.2	.45	.93	150	54		2.78		.42	1.16
	5.6	.35	.92	150	49		3.06		.32	.99
	5.9	.30	1.0	150	47		3.19		.30	.96
	6.2	.30	1.0	200	50		4.00		.30	1.20
	6.5	.30	1.02	200	50		4.00		.31	1.22
	6.8	.30	.96	200	48		4.17		.29	1.20
	7.1	.30	.97	200	47		4.26		.29	1.24
o	7.4	.30	1.10	150	40		3.75		.33	1.24
	7.7	.30	1.08	200	51		3.92		.32	1.27
	8.0	.30	1.02	200	50		4.00		.31	1.22
	8.3	.30	1.02	200	50		4.00		.31	1.22
	8.6	.30	1.02	200	50		4.00		.31	1.22
	8.9	.30	1.10	200	49		4.08		.33	1.35
	9.2	.30	1.08	200	47		4.26		.32	1.38
	9.5	.30	1.02	200	50		4.00		.31	1.22
	9.8	.30	1.08	200	53		3.77		.38	1.43
	10.2	.40	1.12	150	43		3.49		.45	1.56
	10.6	.40	1.12	150	52		2.88		.45	1.29
	11.0	.35	1.12	200	51		3.92		.39	1.54
	11.3	.30	1.08	200	50		4.00		.32	1.30
	11.6	.35	1.0	150	41		3.66		.35	1.28
	12.0	.40	.95	150	43		3.49		.38	1.33
	12.4	.40	.95	150	53		2.83		.38	1.08
	12.8	.45	.80	150	56		2.68		.43	1.15
	13.3	.50	.66	150	49		3.06		.33	1.01
	13.8	.50	.50	80	45		1.78		.38	1.15
	14.8	.50	0	—	—		0		0	0
		LB								

12.9 12.9

35.16

10'
3.5 sec

29
3.5 $\sqrt{10}$
360

2.5 sec
3.6