

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

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

CIVIL CASE NUMBER: 39576

Ident. Number: A72-07109
Date Received: 12/07/1989
Receipt No: M005340
Received By: B.V. 24

REC-1

JAN 02 1990

NOTICE OF CLAIM TO A WATER RIGHT
ACQUIRED UNDER STATE LAW

Department of Water Resources

1. Name: MICHAEL H. BARRETT 208-879-2797
Address: P.O. BOX 347
CHALLIS, ID 83226

2. Date of Priority: AUG 25, 1980

3. Source: SPRING Trib. to: SINKS

4. Point of Diversion:

Township	Range	Section	1/4 of	1/4 of	1/4	Lot	County
12N	15E	15	NE	SE			CUSTER

5. Description of diverting works:
PLASTIC PIPE FROM SPRING TO PLACE OF USE.

6. Water is used for the following purposes:

Purpose	From	To	C.F.S	(or)	A.F.A.
MINING	01/01	12/31	0.030		2.00
DOMESTIC	01/01	12/31	0.040		0.60

7. Total Quantity Appropriated is:
0.040 C.F.S. (and/or) 2.60 A.F.A.

8. Total consumptive use is Acre Feet Per Annum.

9. Non-irrigation uses:
D/1 CABIN, X/1 MINE.

10. Place of Use:

Township	Range	Section	1/4 of	1/4	Lot	Use	Acres
12N	15E	15	NE	SE		MINING	
			NE	SE		DOMEST	

A72-07109

Page 1

Date: 12/07/89

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MAR 18 1993

11. Place of use in counties: CUSTER

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

13. Other Water Rights Used:
NONE.

14. Remarks:
Domestic use is for 1 home.

15. Basis of Claim: LICENSE

16. Signature(s)

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

Number of attachments: _____

For Individuals:

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

Signature of Claimant(s): X Mike Barnett Date: X 12/28/89

Date: _____

State of Idaho)
County of Custer) SS.

Subscribed and sworn (or affirmed) before me this 28 day
of Dec. 19 89

Mae Kopp
Notary Public

Seal

Residing at Charles Idaho
My Commission Expires 11/7/94

State of Idaho
Department of Water Resources

WATER RIGHT LICENSE

WATER RIGHT NO. 72-07109

Priority: August 25, 1980 Amount: 0.04 CFS 2.6 AFA

This is to certify, that RALPH D. BRICKER
FLOYD MARSHALL
FRANK TUESCHER

P.O. BOX 592
CHALLIS, ID 83226

has complied with the terms and conditions of the permit issued pursuant to Application for Permit dated August 25, 1980, and has submitted proof to the Department of Water Resources on September 9, 1985, that water has been applied to a beneficial use; an examination by the Department indicates that the works have a diversion capacity of .040 cfs of water from:

SPRING tributary to SINKS

source and that a water right has been established as follows:

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>RATE OF DIVERSION</u>	<u>VOLUME</u>
MINING	01/01 to 12/31	0.03 CFS	2.0 AFA
DOMESTIC	01/01 to 12/31	0.04 CFS	0.6 AFA
	Totals	0.04 CFS	2.6 AFA

LOCATION OF POINT(S) OF DIVERSION: NESE, Sec. 15, Township 12N, Range 15E
CUSTER County

PLACE OF USE: MINING

TWN RGE SEC

12N 15E 15

NESE

PLACE OF USE: DOMESTIC, same as MINING use

CONDITIONS/REMARKS:

1. The right to the use of water hereby confirmed is limited to the amount which can actually be beneficially used and is restricted and appurtenant to the lands or place of use and to the purpose herein described, as provided by the laws of Idaho.
2. This right is subject to all prior water rights and may be forfeited by five years of non-use.
3. Modifications to or variance from this license must be made within the limits of Section 42-222, Idaho Code, or the applicable Idaho law.
4. Domestic use is for 1 home.

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RECEIPT
For Monies Paid
to the
IDAHO DEPARTMENT OF WATER RESOURCES

Receipt No: M005340

Date: 12/07/89
Time: 17:03:53

Received
From: BARRETT, LENORE H.

Type of Payment	Program Acct Class	Amount
ADJUDICATION FEE	0410162 9337 6490	\$474.00
Total		\$474.00

CHECK 3604

25	80	61	55	25
WR/NO: A72-04017	A72-07044	A72-07423	A72-07014	A72-10278
A72-10280	A72-07424 ✓	A72-07109 ✓		
25	150	53		

Idaho Department of Water Resources

Region: MOBILE I

Signature: _____

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MAR 18 1993

MICHAEL BARRETT
P.O. BOX 1104
CHALLIS, IDAHO 83226

CERTIFIED

P 126 657 282

MAIL



Idaho Department of Water Resources
State Office
1301 N. Orchard St.
Boise, Idaho 83706

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MAR 18 1993

RETURN RECEIPT
REQUESTED

M. BARRETT
P.O. BOX 1104
CHALLIS, IDAHO 83226

December 28, 1989

RECEIVED
JAN 02 1990

Department of Water Resources

Idaho Department of Water Resources
State Office
1301 N. Orchard St.
Boise, Idaho 83706

Re: Application, general adjudication

Dear Sir:

Enclosed please find copies of my Water Right License No. 72-07109
and my Permit to Appropriate Water No. 72-07424, as well as my re-
application regarding the general adjudication of rights to the use
of water from the Snake River Basin Water System.

Also enclosed is a copy of payment made for the two new applications.

Thank you.

Very truly yours,



Michael Barrett

MB/lh

encl.

MICROFILMED
MAR 18 1993



State of Idaho
DEPARTMENT OF WATER RESOURCES

1301 North Orchard Street, Statehouse Mail, Boise, Idaho 83720 -(208) 327-7900

CECIL D. ANDRUS

GOVERNOR

R. KEITH HIGGINSON

DIRECTOR

January 16, 1990

Michael Barrett
P.O. Box 1104
Challis, ID 83226

RE: Snake River Basin Adjudication (SRBA)
Custer County - A72-07424 & A72-07109
Receipt #M005340

Dear Mr. Barrett:

Thank you for your letter of December 29, 1989. We have enclosed copies of your two Water Right Claims for your files.

Yours Truly,

Donald V. Shaff
Manager, Adjudication Section

DVS:sf:state:southern

Enclosures:

Copies of Claims A72-07424 & A72-07109

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R PROOF

CVR

MAPS

PHOTOS

MISC

MICROFILMED
OCT 1 1994

DEC 26 1989

Ralph or Coralee Bricker
P O Box 592
Challis Id 83226
RE: SRBA Claim

A 72-10351

A 72-07109

Dear Claimant:

Please find enclosed your claim and your check # _____ for \$ _____ which you submitted to our office. I am returning these pursuant to Rule 10,4 of the Department's Adjudications Rules and Regulations.

~~The DEADLINE for filing timely claims in MINIDOKA COUNTY was OCTOBER 12, 1989. Since your claim was postmarked _____ your claim is considered late and subject to the additional late fee listed below.~~

Additionally, in checking your claim it appears that the following items need clarification:

- [] Item #2 Priority
- [] Item #4 Point of Diversion Legal Description
- [] Item #6 Uses descriptions
- [] Item #9 Description of Non-irrigation Uses
- [] Item #10 Place of Use Legal Description
- [] Item #16 Signature & Notorization
- [/] Improper fee (THE CORRECT FEE IS \$ 25)
- [] Other or Remarks

no check
enclos

If you will make the necessary corrections and return your claim with the correct fee our office will process your claim. If you have any questions please feel free to contact our office.

Sincerely,



Allen Merritt, P.E.
Water Rights Supervisor

Enclosures:

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NOV 01 1994

Water Right Number - R72-07109

RESEARCH

Old (D) Number

NOTHING

+ - First Name - - +

+ - - - - Address

MICHAEL H.

1 - PO BOX 347

City- CHALLIS

State- ID Zip- 83226

+ - - - Region - - - +
17 SOUTHERN

```

+ - - - Stage - - - +
L - LICENSE

```

STATUS	-	-	-	+
--------	---	---	---	---

- - Tributary
- - SINKS

	Twn	Rng	Sec	Tract	Lot	Rflg	County	Po
--	-----	-----	-----	-------	-----	------	--------	----

12N	15E	15	SW	NE	SE	(37)	CUSTER
-----	-----	----	----	----	----	------	--------

Code	Description	Period From	Period To	Water Use	Diversion Rate	Diversion Volume
+	-	-	-	-	-	-

13 - MINING	01/01	12/31	0.030	2.00
43 - DOMESTIC	01/01	12/31	0.040	0.60

+ - Total Div. Rate	- +	+ - Total Div. Volume	- +	+ - Total Consumptive Use	- +	+ - KW Usage
0.040		2.60		0.0		

+	Twn	Rng	Sec	Tract	Lot	Acres	Place of Use Code	Description	County
12N	15E	15	NE SE				13 MINING		(37) CUSTER
12N	15E	15	NE SE				43 DOMESTIC		(37) CUSTER

+ - - Diversion Means - PLASTIC PIPE FROM SPRING TO PLACE OF USE.

+ - - Non-Irrigation Use - DOMESTIC, 1 CABIN; MINING, 1 MINE SITE

+ - - Other Rights for Same Use - NONE

Remarks
No Remarks found.

7207109 Old Water Right Numbers

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NOV 01 1994

MICROFILMED
NOV 01 1983

Water right number - R72-07109

Prefix Translation: RESEARCH

----- Conditions of Approval -----
No Conditions of Approval found.

----- Decree Plaintiff ----- + Decree Date - +
00/00/0000

----- Comments -----
Date: 09/01/1993 User Id: CLELLAND Subject: COPIED FROM REMARKS
Domestic use is for 1 home.

+ - - Audit Fields - - +
09/01/93 CLELLAND

----- Adjudication Rights Dates and Flags Area ----- +
Court Report Filing - 00/00/0000 Field Inspection Made - 00/00/0000 Civil Case Number - 39576
Objection Filed Date - 00/00/0000 Field Inspection Flag - 09/01/1993 Old Case Number -
Response Filed Date - 00/00/0000 Verified Date - 00/00/0000 Old Judicial District -
Claim Received Date - 12/07/1989 Last Amended Date - M005340 Temporary Right - P
Receipt Number - Y Water District -
POU Ownership Flag - Presumption Flag - S
Name Connector - Federal/State Indicator -
Notice of Error Flag -

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NOV 01 1994

~~LAST: RUTHER
ADDRESS: 100 BOX 592
CITY: CHALLIS
PHONE NUMBER: 208-000-0000
OWNER CODE: 0~~

De

FIRST: PAUL H.
STATE: ID ZIP: 83226

LAST: FARRETT
P.O. BOX 347
CITY: CHALLIS
PHONE NUMBER: 208-879-2797

FIRST: MICHAEL H.
STATE: ID ZIP: 83226

OWNER CODE: 0

DEPT FAX# REQUIRED?

FIRST
DATABASE
EXAMPLE

VERIFICATION REQUIRED DUE TO REMARKS?

CLAIM REMARKS: Domestic use is for 1 home.

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NOV 0 1 1994

CONTACT PERSON:

DATE OF FIELD EVAL: / /

APPOINTMENT MADE: Y () N ()

ACCOMPANIED BY:

RELATIVES TO CLAIMANT:

REPORTING TO BUREAU / REMARKS:

PHONE NUMBER: () -

TIME: : A () P ()

PHONE NUMBER: () -

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NOV 01 1994

A. AT CLAIM: # A72-07109 PRIORITY DATE: 08-25-1980 STAGE: 1
B. WP REFNO: # 72-07109 PRIORITY DATE: 08-25-1980 STAGE: 1
C. FIELD EXAM REQUIRED? DATABASE FIELD
DATE TO PRIORITY DATE DISCREPANCY? (Y/N) N EXAMINER

APP THREE OBVIOUS REASONS TO QUESTION THE PRIORITY DATE CLAIM? () (X) N/A
IF YES EXPLAIN.

REMARKS:

as per license

===== RECOMMENDED PRIORITY DATE: =====

08-25-1980

REMARKS:

See

DATE

9-1-93

MICROFILMED
NOV 01 1983

A. AT CLATH POINT OF DIVERSION AND SOURCE:

RIGHT	TWP.	RSE.	SEC.	1/4	1/4	1/4	LOT	CNTY
022-07109	12N	15E	15		NE	SE		CUSTER

OTHER AT CLAIMS WITH SAME AT POD

A PREFIX NONE
R PREFIX NONE

NE RECORDS IN SAME AS ACCE TRACT

NONE

SW

SOURCE: SPRING

TRIB: SINKS

B. WE POINT OF DIVERSION AND SOURCE:

RIGHT	TWP.	RSE.	SEC.	1/4	1/4	1/4	LOT	CNTY
022-07109	12N	15E	15		NE	SE		CUSTER

OTHER WE RECORDS WITH SAME WE POD

AT CLAIMS IN SAME AS ACCE TRACT
A PREFIX R PREFIX

NONE

NONE

NONE

SOURCE: SPRING

TRIB: SINKS

C. FIELD EXAM REQUIRED?

DUE TO POD DISCREPANCY? (Y/N)
DUE TO SOURCE DISCREPANCY? (Y/N)

Y
N

DATABASE

FIELD EXAMINER

REMARKS:

Locate 10 acre tract; based on license plan map info-

9-1-93

See

MICROFILMED

RECOMMENDED POINT(S) OF DISSECTION

1/4

LOT

COUNTY

OK

SW

NE

SE

QUAD: SPRING

TYPE: STONE

DISSECTED BY:

Scu

DATE:

9-1-93

Add 10 Ac. Tract

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NOV 01 1994

A. ROOT WATER RIGHT NUMBERS: A72-07109
B. ROW LISTING

ROW NO	SEC	1/4	1/4	10E	NAME	A1 #/ACRES	UB #/ACRES
12N 15E 1E	NE	GE	PAPPETT, MICHAEL H.	A72-07109	/	72-07109	/
12N 15E 1E	NE	GE	PAPPETT, MICHAEL H.	A72-07109	/	72-07109	/
TOTAL ACRES						A72-07109	

LANDGAT DATA
FIELD EXAM

APP. IRRIGATION ACRES FOUND IN TRACTS OTHER THAN INDICATED ABOVE, YES () NO (X)
YES SEE ATTACHED SHEET.

FIELD EXAM REQUIRED?

DUE TO ROW DISCREPANCY? (Y/N)

DATABASE Y FIELD EXAMINER N

ROW COUNTY: CHSTP

PRESUMPTION FLAG:

REMARKS:

RECOMMENDATIONS:

TOTAL ACRES:

REVIEWED BY:

DATE: 9-1-93

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NOV 01 1994

A. AS CLAIMED HERE:

77-07109 MINING
77-07109 DOMESTIC

MONTH/DAY
FROM 01-01 TO 12-31
FROM 01-01 TO 12-31

TOTAL DIVERSION RATE/VOLUME CLAIMED

DIVERSION QUANTITY
*030 CFS 2.00 AE/A
*040 CFS .60 AE/A
*040 CFS 2.60 AE/A

B. WE RECORDED HERE:

77-07109 MINING
77-07109 DOMESTIC

MONTH/DAY
FROM 01-01 TO 12-31
FROM 01-01 TO 12-31

TOTAL DIVERSION RATE/VOLUME CLAIMED

DIVERSION QUANTITY
*030 CFS 2.00 AE/A
*040 CFS .60 AE/A
*040 CFS 2.60 AE/A

PRESUMPTION FLAG:

C. FIELD EXAM REQUIRED?

DUE TO WATER-USE DISCREPANCY? (Y/N)
DUE TO DIVERSION RATE DISCREPANCY? (Y/N)
DUE TO SECTION FROM/TO DISCREPANCY? (Y/N)

DATABASE EXAMINER
N
N
N

D. REPORT OF USE:

RECOMMEND AS CLAIMED?

RECOMMEND TO WE STANDARDS OR OTHER?

REMARKS:

OK

Y (X) N ()
Y () N (X)

Explain in remarks below.

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NOV 5 1

A. DOES DIVERSION RATE CLAIMED AGREE WITH EXISTING RECORDS?

Y (X) N ()

AT TOTAL CLAIMED DIVERSION RATE: 0.040 CFS
BY FOOT RIGHT TOTAL DIVERSION RATE: 0.040 CFS

+++ IF NO OR IF STATUTORY CLAIM OF BENEFICIAL USE, does flow measurement required. +++
If flow measurement required, explain in remarks. ++

FLOW MEASUREMENT REQUIRED?

DUE TO STAGE OR DIVERSION RATE DISCREPANCY? (Y/N)

FIELD DATABASE EXAMINER
Y

MEASUREMENT METHOD

FLOW MEASUREMENT

SEE ATTACHED CALCULATIONS.

C. ARE OTHER WATER RIGHTS USED? Y () N (X) IF YES COMPLETE OVERLAP REVIEW.

OTHER RIGHTS LISTED IN CLAIM: NONE

NO CLAIMS FOUND WITH SAME FOU AND IRRIGATION USAGE

NO RIGHTS WITH SAME FOU BUT NOT USED FOR IRRIGATION

2 None

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NOV 01 1994

1.

DATE/VOLUME CALCULATIONS: (IRRIGATION)

1a. IRRIGATION RATE $\times$ 0.02 CFS/ACRE = CFS
ACRES (taken from p/u review)

Does amount claimed exceed 0.02 CFS/ACRE? Y () N ()

*** IF YES ADDITIONAL WATER USE FORM FILED AND ATTACHED? Y () N () ***

1b. CALCULATIONS

2. IRRIGATION CONSUMPTIVE USE

CLAIMED CONSUMPTIVE USE = AF/A

ACRES $\times$ CONSUMPTIVE VOL. AF/A FOR AREA =

TOTAL CONSUMPTIVE USE AF/A

3. IRRIGATION DIVERSION VOLUME

CLAIMED DIVERSION VOLUME = 2.60 AF/A

ACRES $\times$ DIVERSION VOL. AF/A FOR AREA =

TOTAL DIVERSION VOLUME AF/A

4. CALCULATIONS FOR USES OTHER THAN IRRIGATION:

SEE ATTACHED SHEET? Y () N (X)

as per license 72-7109

REMARKS: (Include limitations on CONSUMPTIVE USE for combined rights.)

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RECOMMENDATIONS:

as desired

REC. PERIOD	REC. DTU	REC. DTU	REC. CONS.
FROM	DATE	WDL. AF/A	USE
MINING	01-01	12-31	0.030
DOMESTIC	01-01	12-31	0.040
TOTAL FOR THIS PERIOD	0.040	2.60	0.0

REMARKS BY:

See

DATE: *9-1-93*

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A. CHECK ONLY THE FOLLOWING THAT APPLY:

DIVERSION
FORFEIT/ABANDON
ADDITIONAL DIV. AMOUNT

ACCEPTED
AS CLAIMED
NEEDS
REVIEW

B. SPLIT WATER RIGHT REVIEW

POUT WATER RIGHT NUMBER: 72-07109

TOTAL DIVERSION RATE OF WP SPLITS
0.040

EXAMINER

CPS

SPLITS:

OLD RIGHT
NUMBERS

CURRENT
CLAIM NUMBERS

DIVERSION
RATE

CURRENT "R"
CLAIM NUM.

"R" DIV.
RATE

WP RIGHT
NUMBERS

DIVERSION
RATE

-

72-07109

0.040

-

72-07109

0.040

TOTAL CPS

0.040

0.040

DIVERSION RATE REVIEW

FILED
EXAMINER

DO THE CUR CPS RATE OF THE SPLITS EQUAL THE POUT RIGHT CPS RATE? (Y/N)
IF NO, IS THE WRITTEN REVIEW SHEET ATTACHED? (Y/N)

REMARKS:

N/A

AUTHENTICATION:

SIGNATURE:

Steve [Signature]

DATE:

9-1-93

NAME OF FIELD EXAMINER:

TIME:

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NOV 01 1994

DEPARTMENT OF WATER RESOURCES
AUDITATION CLAIM VERIFICATION REPORT

CLAIM NUMBER: 672-015

06/05/93

UP ELEMENT	FIELD EXAM Y/N	CORRESPONDENCE SENT/RECEIVED BY WHOM/DATE	FIELD EXAM BY WHOM/DATE	CHANGE CLAIM Y/N	VERIFIED BY CODE	CORRECTED WHOM/DATE	COMPLETED DATE WHOM/DATE
DEPARTY DATE							
POINT OF DIV	Y		Deletor Kivins 9-1-93 sc	Y	1,6 lic.	sc 9-1-93	sc 7-1-93
SOURCE				Y			
PLACE OF USE	Y			Y			
TOTAL AMOUNT CES/INCOME				Y			
CONSUMPTIVE USE	-			Y			
PURPOSES				Y			
PERIOD OF USE				Y			
WASTE OF CLAIM				Y			
REMARKS	Y			N			

*VERIFIED BY: CODES

- TOPO MAP/OTHER-PO = 1
- ASCS MAP = 2
- WATERMASTER RECORDS = 3
- NAPP PHOTOS = 4
- FIELD EXAM = 5
- OTHER (SEE REMARKS) = 6

THESE CODES ARE USED TO INDICATE HOW THE FIELD EXAMINER VERIFIED THE INFORMATION
USING THE FIELD EXAMINATION. INDICATED ARE ALL CODES WHICH APPLY.

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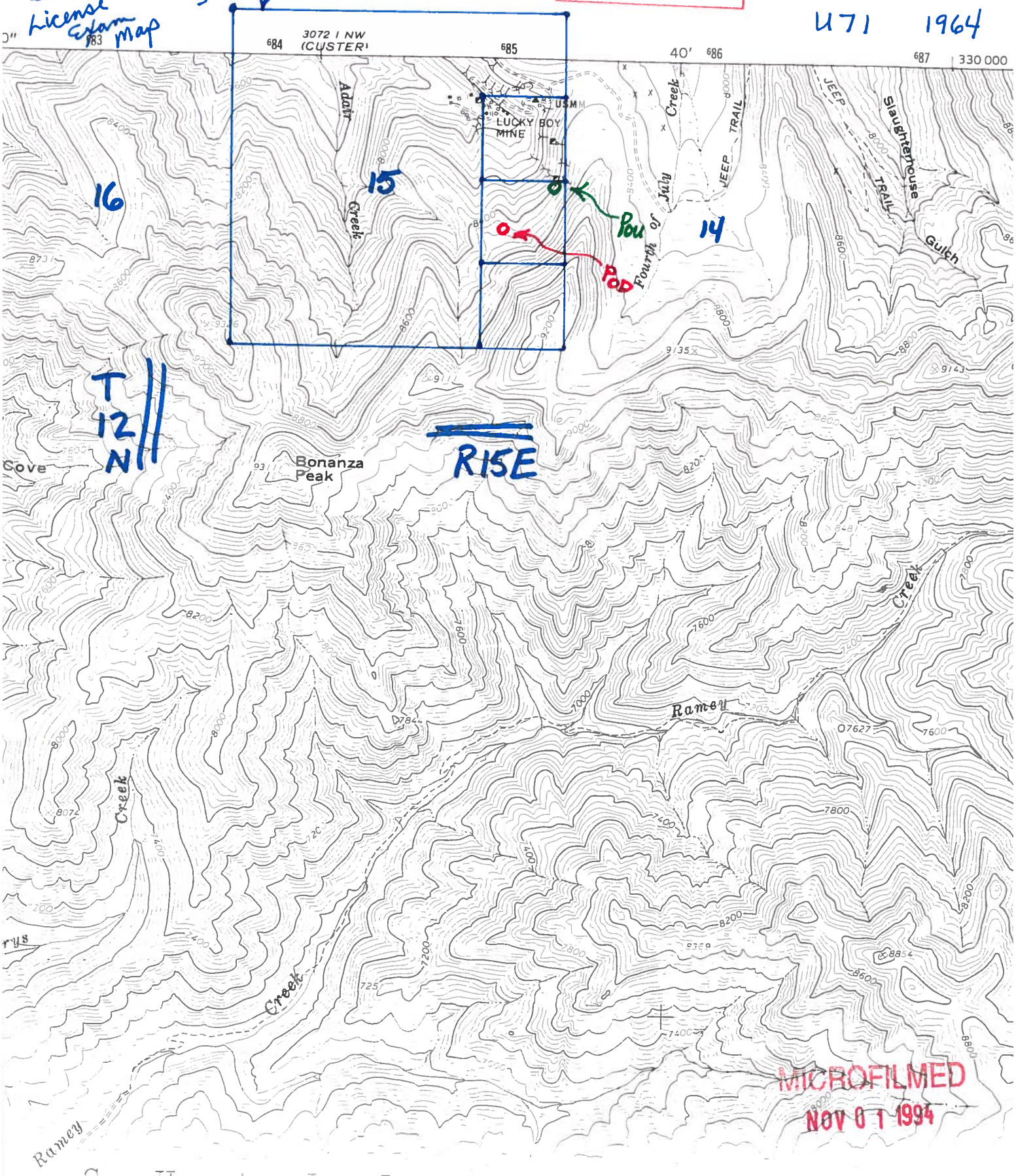
Date entry
9-1-93
see

MAP Revision
Based on
License
Exam
map

ESTIMATED
SECTION

POOR ORIGINAL

SUNBEAM
QUAD
U71 1964



MICROFILMED
NOV 01 1994

POOR ORIGINAL

QUITCLAIM DEED

For Value Received, in consideration of the sum of Ten Dollars (\$10.00) and other good and valuable consideration, the receipt hereby acknowledged, M & S MINING CO., an Idaho corporation, P.O. box 149, Challis, Idaho 83226,

do hereby convey, release, remise and forever quit claim unto MICHAEL HARDY BARRETT, CHALLIS, Idaho, the following described WATER RIGHT LICENSE:

the following described premises, to-wit:

Water Right No. 72-07109
NESE, Sec. 15, Township 12N, Range 15E CUSTER County

REVENUE STAMPS

RECEIVED
JUL 28 1989

Department of Water Resources

192339

CUSTER COUNTY
REQUEST OF

Barrett

'89 JUL 25 AM 10 39

ETHEL N. PECK, CLERK
Deputy
FEES \$ 3.00

together with their appurtenances.

Dated: July 24, 1989

Lucille Marshall

STATE OF IDAHO, COUNTY OF

On this 24th day of July, 1989,
before me, a notary public in and for said State,
personally appeared *Lucille Marshall*

known to me to be the person
subscribed to the within instrument
to me that

Residing at *Challis*
Comm. Expires 10/21/94



STATE OF IDAHO, COUNTY OF

I hereby certify that this instrument was filed for record
at the request of

at _____ minutes past _____ o'clock m.,
this _____ day of _____,
19____, in my office, and duly recorded in Book
of Deeds at page _____

Ex-Officio Recorder

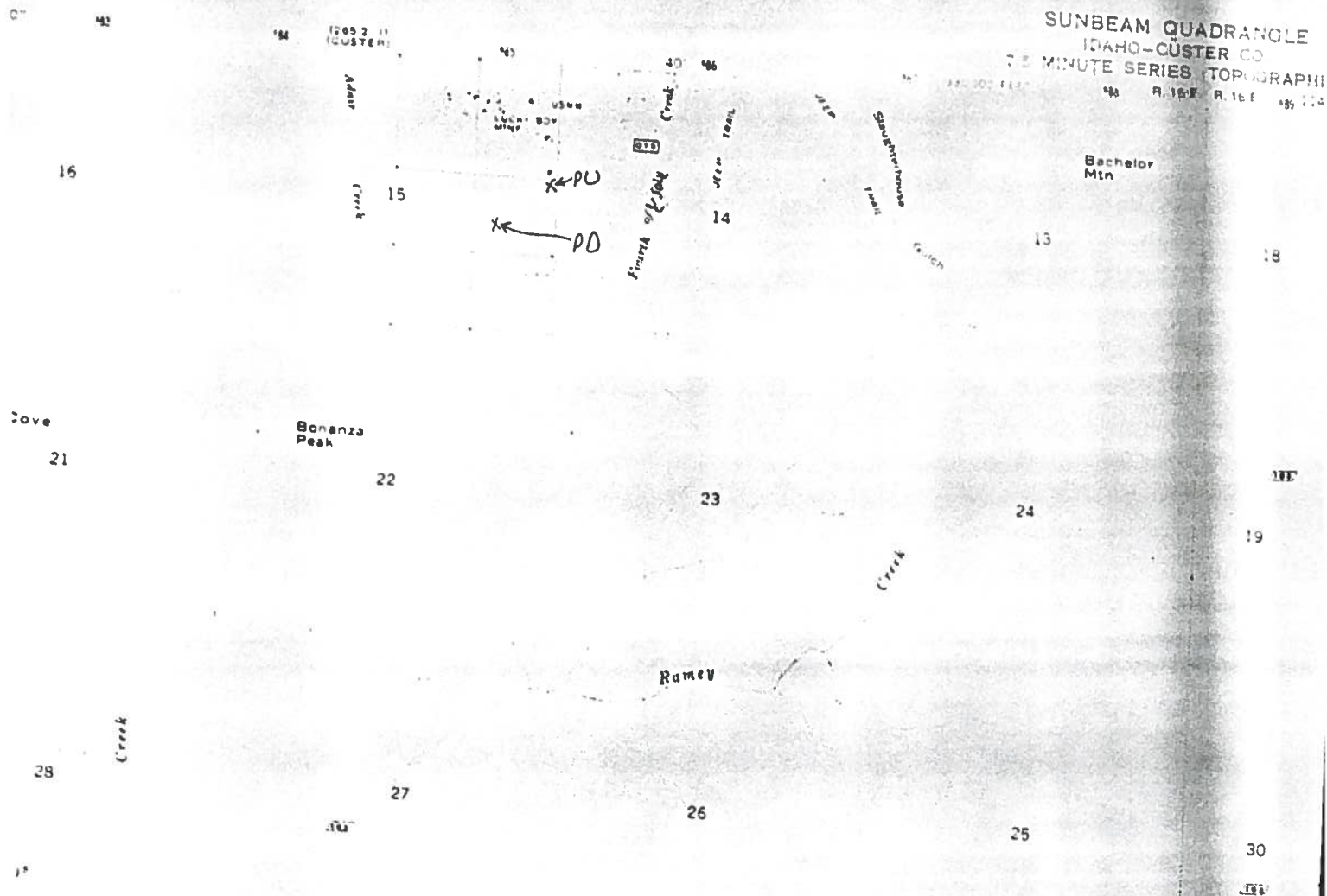
By _____

Fees \$
Mail to:

MICROFILMED
NOV 01 1994

INSTRUMENT NO.

POOR ORIGINAL



MICROFILMED
NOV 01 1994

ORIGINAL

Water is diverted by a 1.5' by 2' wooden collection box into a 2" plastic line. The line is buried for 800' where it comes to a sink and shower. A 1" garden hose is connected to the sink and fills a 300 gallon storage tank. This water, from the storage tank, is used in drilling in the mine. During exam, owner stated that mining was only done during the summer months; around 100 days he stated.

No Pump

NE SE 15 12N 15E Cluster USGS Quad map

Same as above

D = Domestic
M = Mining

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POOR ORIGINAL

Do not use this sheet

0 FLOW MEASUREMENTS

(1) Additional Data Sheets Attached

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Date

2 Measurements

No measurement made for domestic use. Measurement of mining use made by gallon bucket/stopwatch method.

FLOW CALCULATIONS

(1) Additional Computation Sheets Attached

1 Measured Method

$$Q_{\text{dom}} = 0.04 \text{ cfs}$$

$$S_{\text{gal}} = 2.5 \text{ sec}$$

$$S_{\text{gal}} = 2.3 \text{ sec}$$

$$S_{\text{gal}} = 2.2 \text{ sec}$$

$$Q_{\text{min}} = \frac{S_{\text{gal}}}{2.31 \left(\frac{1 \text{ min}}{60 \text{ sec}} \right)} = 12.86 \text{ gpm } Q_{\text{min}} = 0.03 \text{ cfs}$$

2 Alternate Method for Checking Purposes

PUMP EFFICIENCY DATA (Optional)

Discharge Pressure

$$\text{psi} \times 2.31 = \text{ft (1)}$$

Dynamic pumping level

$$\text{ft (2)}$$

Total Head (1) + (2) =

$$\text{ft (3)}$$

Water HP (4) $\times 3.75 \div 0.0$

Meter Input HP (5) $\times 1.6 \times$

Meter Input HP (6) $\times 1.34 \times$

Panel Input HP

$$\text{Ave PI} \times$$

$$\text{Ave V} \times$$

$$\text{MKLT} \times$$

$$\text{PTR} \times$$

$$\text{ft}$$

$$\text{ft}$$

$$\text{ft}$$

$$\text{ft}$$

$$\text{ft}$$

$$\text{ft}$$

$$\text{ft}$$

$$\text{ft}$$

VOLUME CALCULATIONS

1 Volume Calculations for Irrigation

$$V_{\text{ir}} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement})$$

$$V_{\text{ir}} = (\text{Diversion Rate (cfs)} \times \text{Days of Irrigation Season}) \times 1.9835$$

$$V = \text{Smaller of } V_{\text{ir}} \text{ and } V_{\text{dom}}$$

2 Volume Calculations for Other Uses

$$V_{\text{dom}} = 0.04 \times 100 \text{ days/yr} \times 1.9835 = 7.9 \text{ afa}$$

$$V_{\text{min}} = 0.03 \times 100 \text{ days/yr} \times \frac{8 \text{ hr}}{24 \text{ hr}} \times 1.9835 = 1.98 \text{ afa}$$

$$\text{Allow } V_{\text{min}} = 2.0 \text{ afa}$$

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