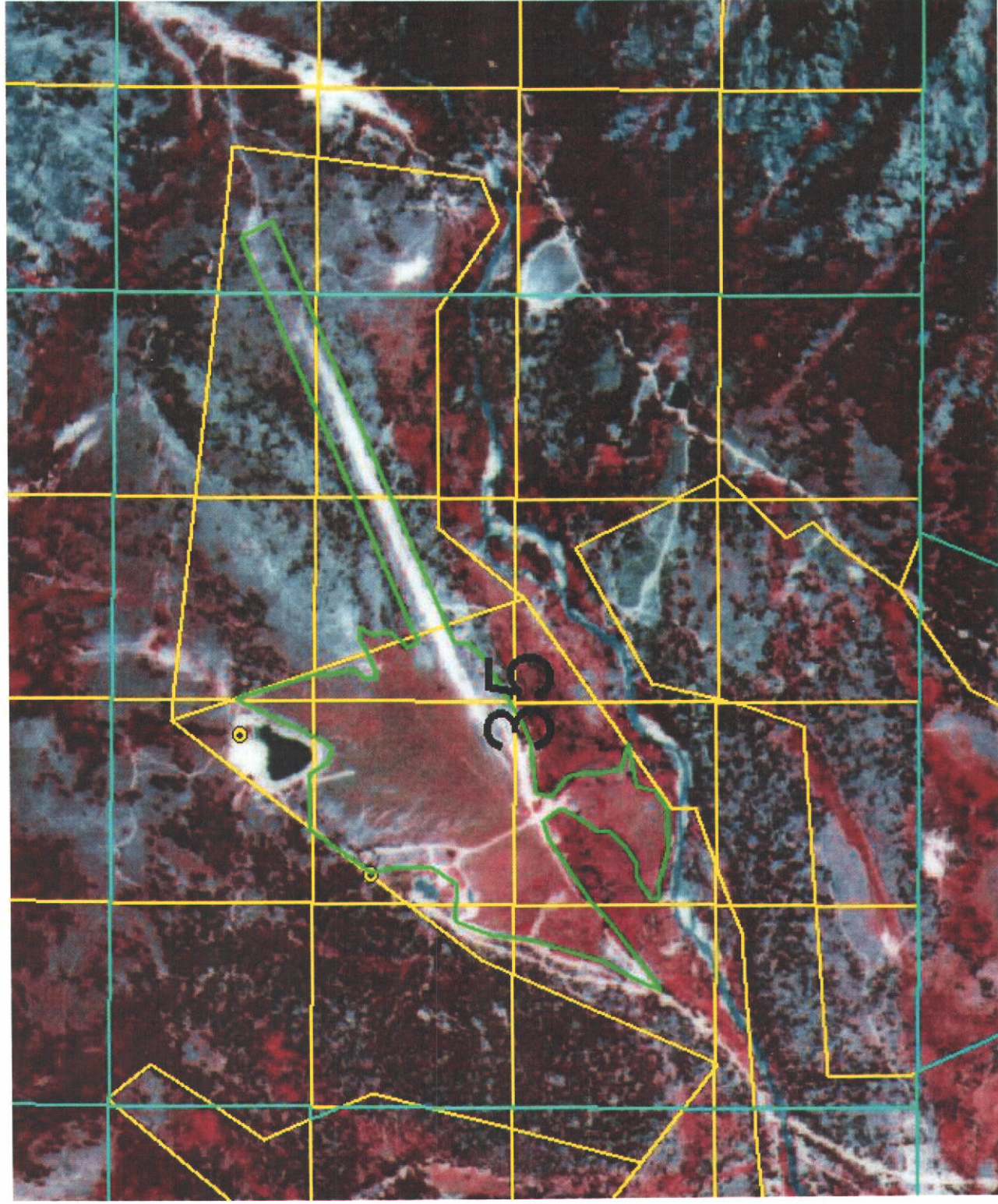


IDAHO DEPT OF WATER RESOURCES

Claim No(s) 63-7866
T06N, R11E, Sec 35, 36
Prepared by: Maria Minicucci
February 7, 2002

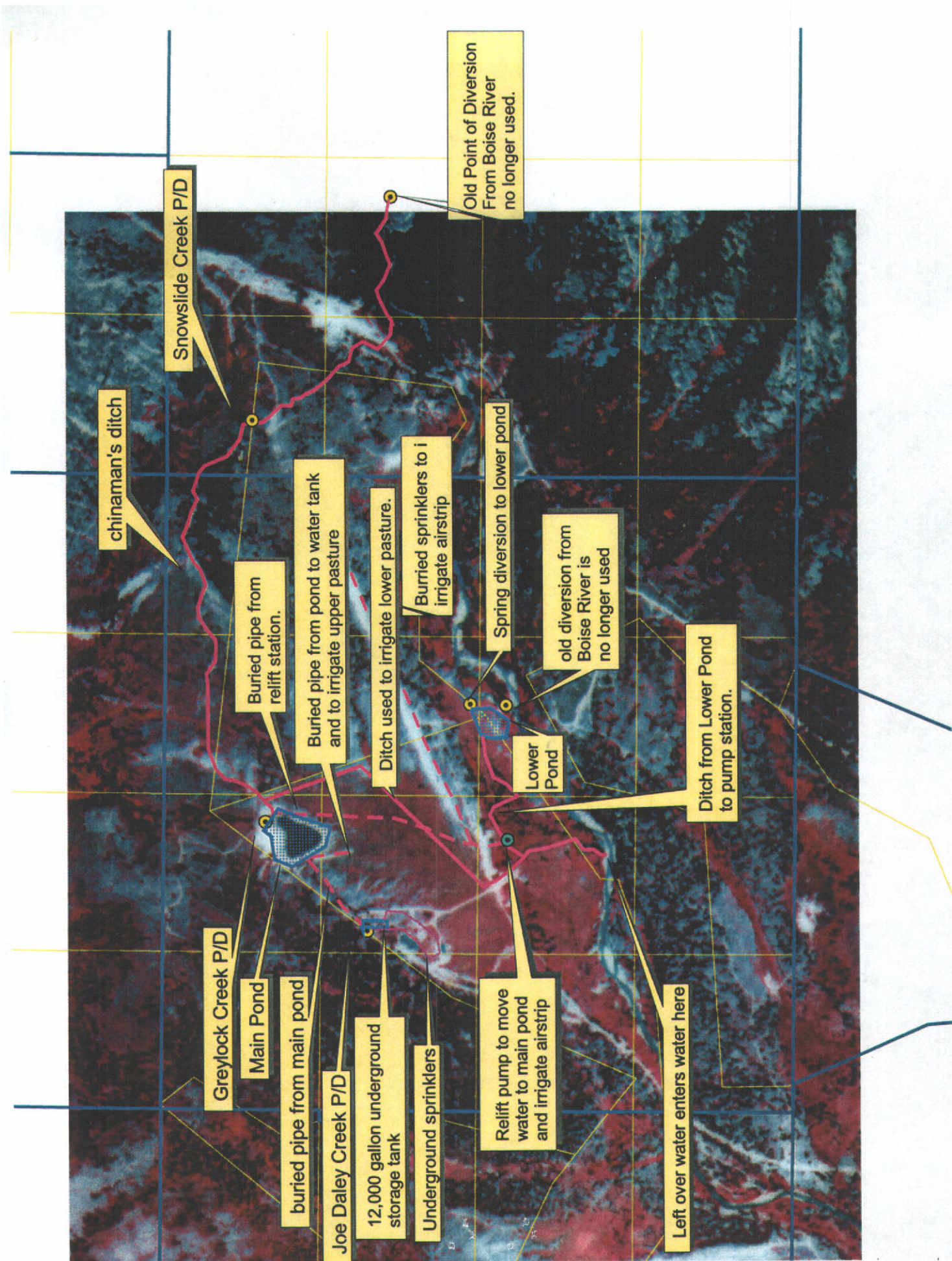
- Place of use
- Point of diversion
- Section Lines
- Quarter quarter lines



400 0 400 800 Feet



1987 NAPP



SECTION 35
T6N R11E

SECTION 35
T6N R11E

H.E.S. 39
NENW
8 ACRES

H.E.S. 39
NWNE
8 ACRES

H.E.S. 39 &
H.E.S. 106
SWNW
12.7 ACRES

H.E.S. 106
NENE
1.2 ACRES

H.E.S. 106
NNW
1.57 ACRES

H.E.S. 106
SENE
1.9 ACRES

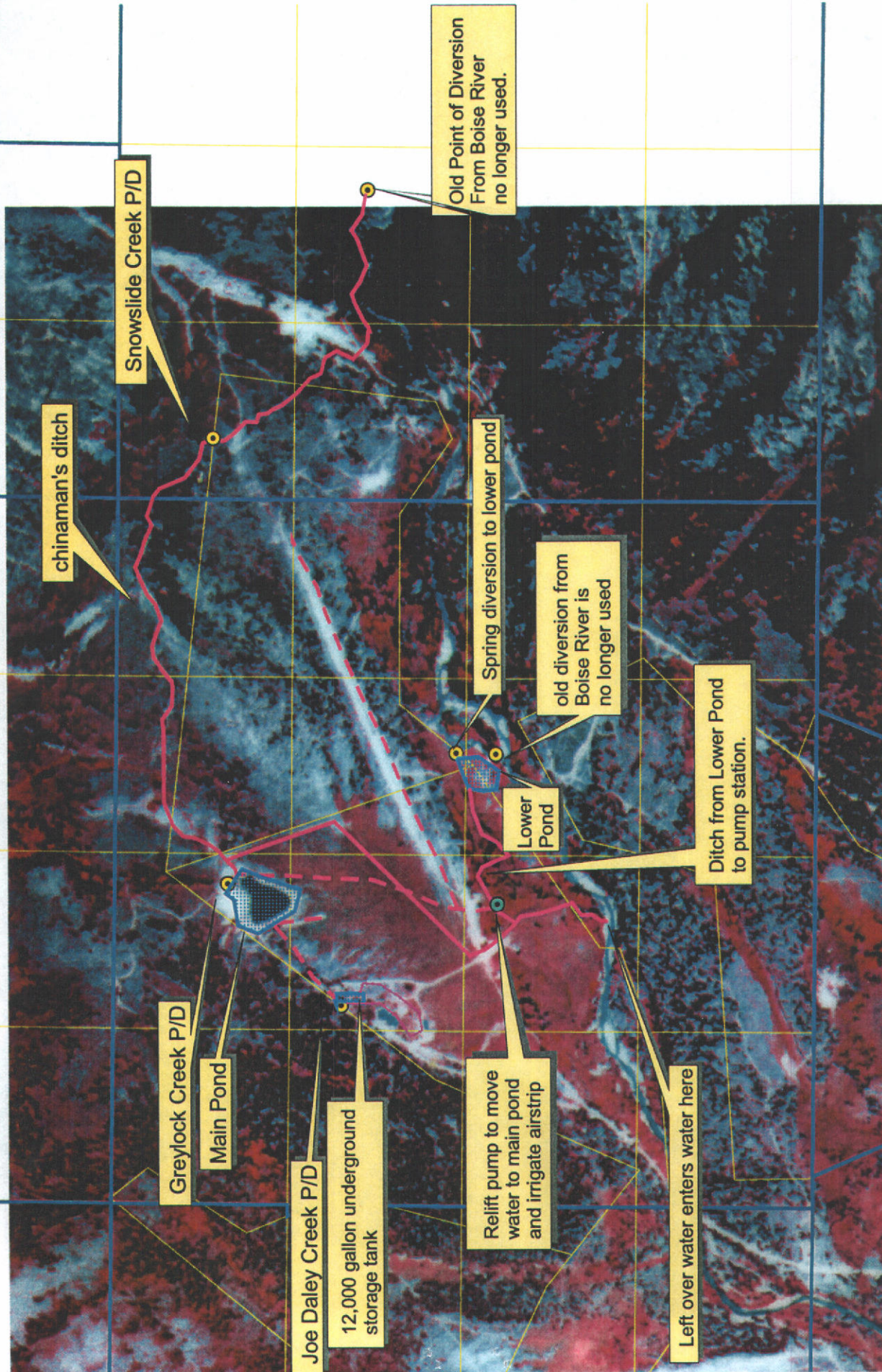
H.E.S. 39
SESW
33.5 ACRES

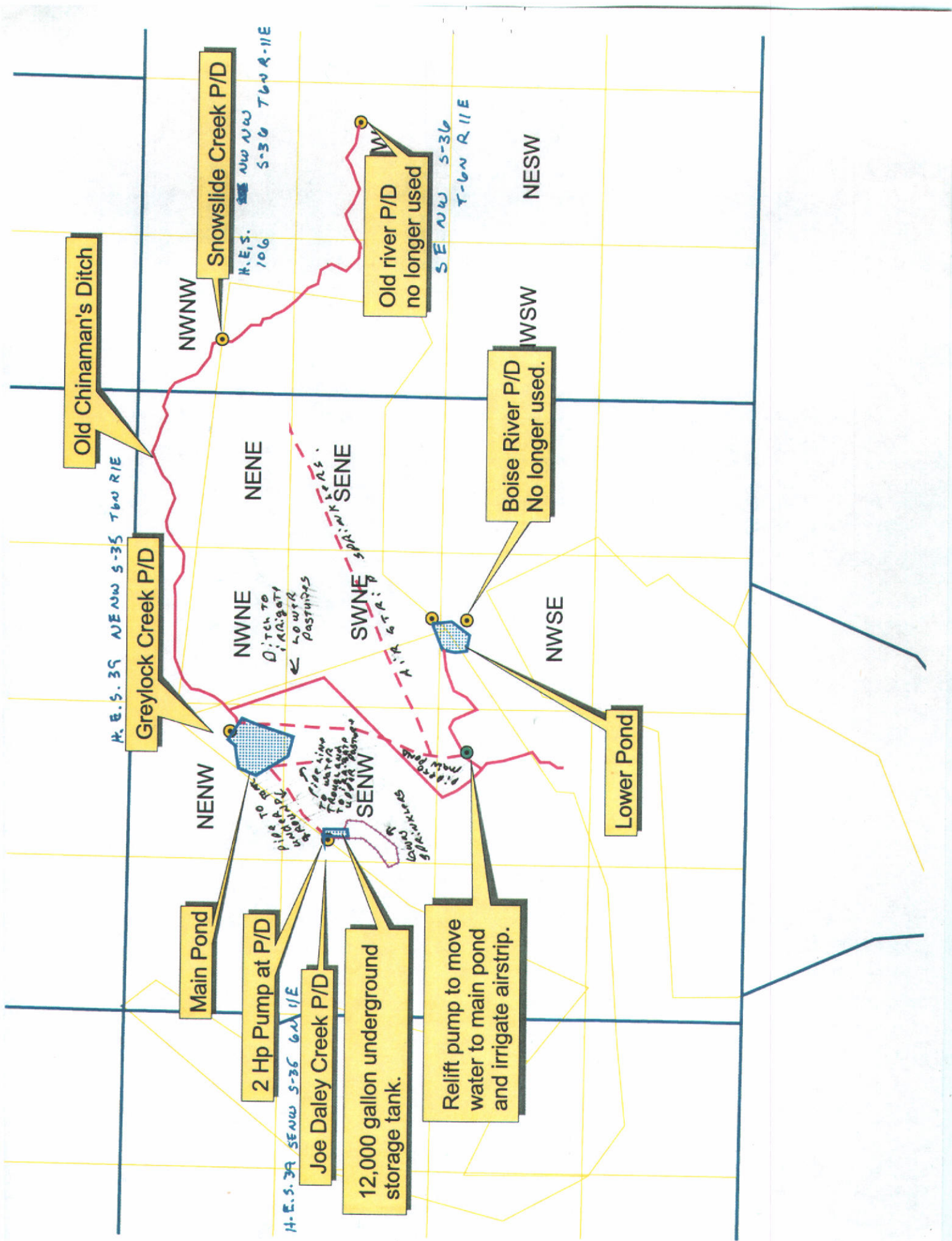
H.E.S. 39
SWNW
1.6 ACRES

H.E.S. 39
NESW
12.9 ACRES

H.E.S. 39
NWSW
5.1 ACRES

PERMIT 63-07866
TOTAL ACRES IRRIGATED IS
APPROXIMATELY 72.1 ACRES.
THIS PERMIT IS LIMITED TO 40 ACRES
WITHIN THE PERMISSIBLE PLACE
OF USE OF 72.1 ACRES





Old Chinaman's Ditch

H.E.S. 39 NE NW S-36 T-6N R-1E

Greylock Creek P/D

Main Pond

2 Hp Pump at P/D

Joe Daley Creek P/D

12,000 gallon underground storage tank.

Relift pump to move water to main pond and irrigate airstrip.

Lower Pond

Boise River P/D
No longer used.

Old river P/D
no longer used

Snowslide Creek P/D

H.E.S. 106 SE NW NW S-36 T-6N R-11E

NENE

NENW

NWNW

NESW

NWSW

NWSE

SENE

SWNE

SESW

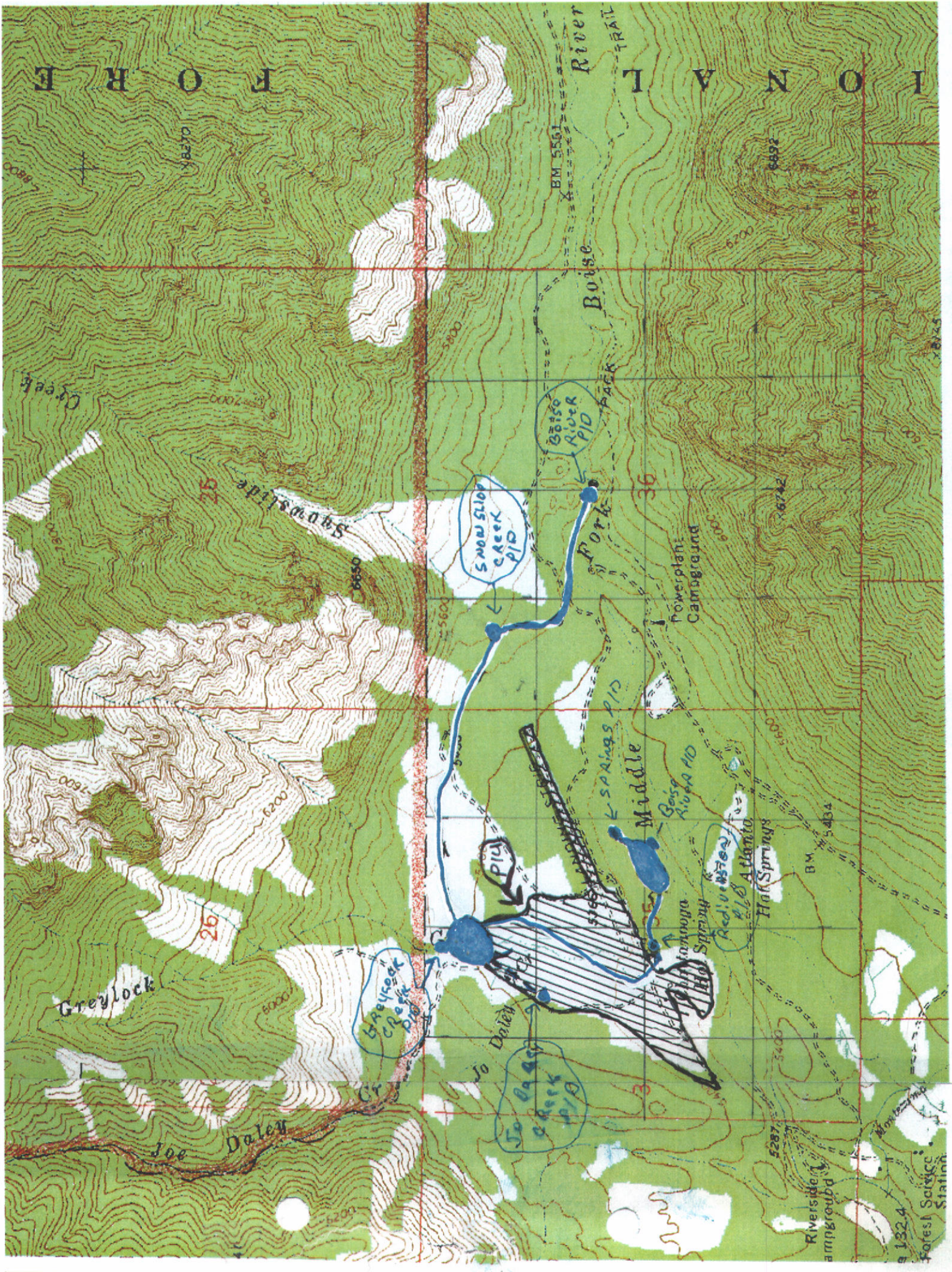
SE NW S-36 T-6N R-11E

NWNE

Ditch to irrigate pastures

Pond to irrigate pastures

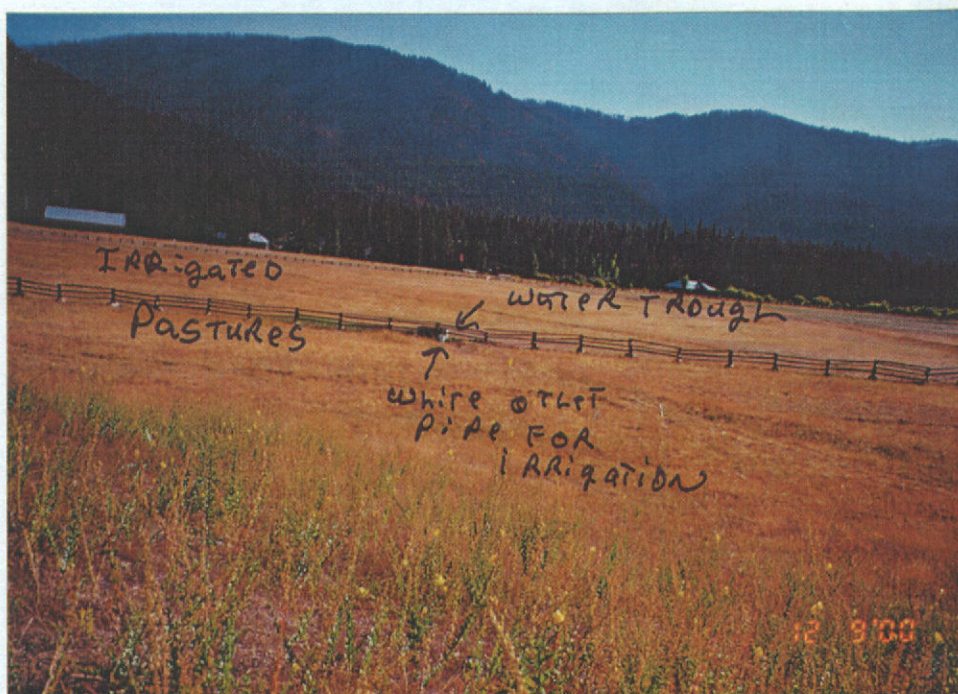
H.E.S. 39 SE NW S-36 T-6N R-1E





PHOTOGRAPHER AND DATE OF PHOTOS DAN 9-12-00

FILE NO. 63 - ~~00~~ 07866



This is the ~~B~~ Place of use
FOR this permit



PHOTOGRAPHER AND DATE OF PHOTOS DAN NELSON 9-12-00

FILE NO. 63 - 7866



PHOTO'S OF THE OLD PID FOR THE
CHINAMAN'S DITCH FROM THE MIDDLE FORK
OF THE BOISE RIVER.





PHOTOGRAPHER AND DATE OF PHOTOS DAN NELSON 9-12-00

FILE NO. 63-07866



These are
photo's
of the
PID at
Joe Daley
Creek and
the Pump
House
for the
lawn
around
the Lodge.





PHOTOGRAPHER AND DATE OF PHOTOS DAN NELSON 9-12-00

FILE NO. 63-07866





PHOTOGRAPHER AND DATE OF PHOTOS

Alan Nelson 9-13-00

FILE NO. AND LEGAL DESCR.

63-07866

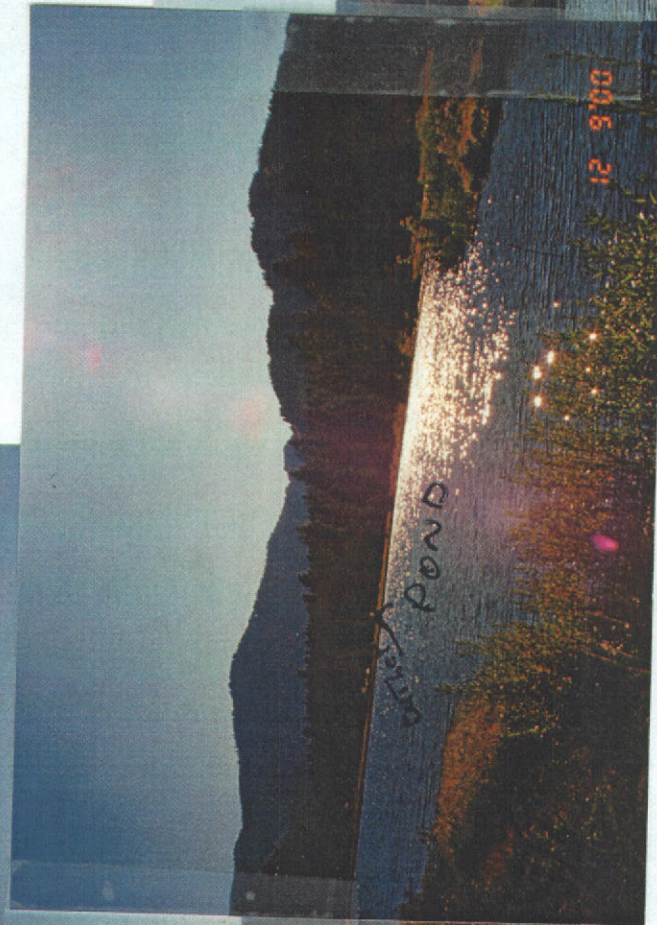


Place of use for permit.



PHOTOGRAPHER AND DATE OF PHOTOS DAN NELSON 9-12-00

FILE NO. AND LEGAL DESCR. 63- 07866



GREY LOCK CREEK P/D

PHOTO OF POND

63-7866

↓ LODGE

← LODGE

← GREY LOCK
CREEK
PID

→ Overflow
Diversion
Channel

Chinaman's
Ditch



View SSW TOWARD ATLANTA from Point of Diversion.

↑
GREY LOCK
CREEK

←

View NNE toward
Point of Diversion.

↑
overflow to field
AND Pond NEAR LODGE.



63-7866



DIVERSION VALVE AT BASE OF DAM.
CONTROL LEVER MAY DIVERT WATER TO HAY/PASTURE FIELD BELOW OR
TO POND IN FRONT OF LODGE.



RISER AT EDGE OF PASTURE.
FIELD IS FLOOD IRRIGATED IF NECESSARY.
WORK ON RISER CONTROL VALVE WAS REASON FOR
EXCAVATION.

63-7866



BROWN
IRRIGATION
← Pump
House

↑
OUTLET TO POND IN front of LODGE



GENERAL AREA PHOTO FOR PLACE of Use.

63-7866



LOOKING NE AT STMAAC RESERVOIR.
OUTLET CONTROL PIPE

6/17/87

GREENE TREE INC. WATER RIGHT REVIEW

Water Right Number	Water Right Filed	Adjudication Claim Needed	Adjudication Claim Filed
63-3609	YES	YES	YES
✓ 63-7891	YES	YES	YES
✓ 63-2532	YES	YES	YES
✓ 63-9683	YES	YES	YES
✓ 63-9684	YES	YES	YES
63-2539	YES	YES	NO
H. F. COORS vs. TALACHED MINES, INCORPORATED	NO	YES	NO

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 63-7866
Date Received: 12/7/89
Receipt No: W006858
Received By:

**NOTICE OF CLAIM TO A WATER RIGHT
ACQUIRED UNDER STATE LAW**

1. Name of Claimant(s): GREENE TREE INC
1 GREYLOCK LN
ATLANTA ID USA 83601

Phone: (208) 864-2168

2. Date of Priority: 09/12/1973

3. Source: GREYLOCK CREEK
JOE DALEY CREEK

Trib. to: BOISE RIVER MIDDLE FORK
BOISE RIVER MIDDLE FORK

4. Point of Diversion:

Township	Range	Section	1/4 of 1/4 of 1/4 Lot	County	Type
06N	11E	35	SE NE NW	ELMORE	
06N	11E	35	SE NE NW	ELMORE	

5. Description of diverting works:

RESERVOIR & SPRINKLERS.

6. Water is used for the following purposes:

Purpose	From	To	C.F.S.	(or) A.F.A
IRRIGATION	4/15	10/15	0.48	
IRRIGATION STORAGE	10/15	4/15		98
IRRIGATION FROM STORAGE	4/15	10/15		98

7. Total Quantity Appropriated is:
0.48 C.F.S.

8. Total consumptive use:

9. Non-irrigation uses:

10. Place of use:

Township	Range	Section	1/4 of 1/4	Lot	Use	Acres
06N	11E	35	NE NW		IRRIGATION	10
			SE NW		IRRIGATION	30
					Section Acres	40
					Total Acres	40

11. Place of use in counties: ELMORE

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

13. Other Water Rights Used:

14. Remarks:

Measuring devices of a type approved by the Department shall be permanently installed and maintained at the point of diversion and the point of effluent discharge.
Address changed by DB 7/18/2001

15. Basis of Claim: Permit

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: A63-07866
Date Received: 12/ 7/1989
Receipt No: W006858
Received By: _____

NOTICE OF CLAIM TO A WATER RIGHT
ACQUIRED UNDER STATE LAW

1. Name: GREENE TREE INC
Address: 129 WOODSIDE DRIVE
PROVO UT

84604-4423

2. Date of Priority: SEP 12, 1973

3. Source: JOE DALEY CREEK
GRAYLOCK CREEK

Trib. to: BOISE RIVER, MIDDLE FORK
BOISE RIVER, MIDDLE FORK

4. Point of Diversion:

Township	Range	Section	1/4 of	1/4 of	1/4 of	Lot	County
06N	11E	35	SE	NE	NW		ELMORE

5. Description of diverting works:
RESERVOIR & SPRINKLERS.

6. Water is used for the following purposes:

Purpose	From	To	C.F.S	(or)	A.F.A.
IRRIGATION	04/15	10/15	0.480		
IRRIGATION STORAGE	10/15	04/15			98.00
IRRIGATION FROM STORAGE	04/15	10/15			98.00

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

A.F.A.

8. Total consumptive use is 100.0 Acre Feet Per Annum.

9. Non-irrigation uses:

10. Place of Use:

Township	Range	Section	1/4 of	1/4 of	Lot	Use	Acres
06N	11E	35	NE	NW		IRR	10.0
			SE	NW		IRR	30.0

A63-07866

Page 1

Date:

07/07/96
MICROFILMED

10. Place of Use: Continued

Township	Range	Section	1/4 of 1/4	Lot	Use	Acres
					Section Acres	40.0
					Total Acres	40.0

11. Place of use in counties: ELMORE

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

13. Other Water Rights Used:
PER. 63-3609.

14. Remarks:
SOURCES ARE JOE DALEY CK. & GRAYLOCK CK.
ADDRESS CHANGED PER REQUEST RECEIVED 6/28/96. LH

15. Basis of Claim: PERMIT

16. Signature(s)

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

Number of attachments: _____

For Individuals:

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

Signature of Claimant(s): _____ Date: _____
_____ Date: _____

State of Idaho)
County of _____) SS.

Subscribed and sworn (or affirmed) before me this _____ day
of _____ 19 _____

Notary Public

Seal

Residing at _____

My Commission Expires _____

RECEIVED

JUN 28 1996

WATER RESOURCES
WESTERN REGION

Mail this card to all people, businesses and publications who send you mail. For publications, tape an old address label over name and old address sections and complete new address. **COMPLETE ADDRESS PORTION ON FRONT OF FORM with Name, Street Address, City, State and ZIP Code of individual or business to whom you are relaying this card.**

Your Name	Print or Type—Last Name, First Name, Middle Initial <i>GREENE VALLEY RETREAT</i> <i>GREENE ALVA - GREENE TREE INC.</i>				
Old Address	No. and Street <i>2554 ELIZABETH ST.</i>	Apt./Suite No. <i>3</i>	P.O. Box —	R.D. No. —	Rural Box No. —
	City and State <i>SALT LAKE CITY, UTAH</i>		ZIP + 4 Code <i>84106</i>		
New Address	No. and Street <i>129 WOODSIDE DRIVE</i>	Apt./Suite No. —	P.O. Box —	R.D. No. —	Rural Box No. —
	City and State <i>PROVO, UTAH</i>		ZIP + 4 Code <i>84604-4423</i>		
Sign Here	Signature <i>Alva Greene</i>		Date new address in effect <i>6/1/96</i>		Keyline No. (if any) —

PS FORM 3576, 11/92

RECEIVER: Be sure to record the above new address in your address book at home or office.

63-02532 "o" owner is Alva D. Greene
(et al) "c" owner is Green Tree Inc.

MICROFILMED
OCT 07 1996

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: A63-07866

Date Received: 11/29/1989

Receipt No: W006832

Received By: BAS

NOTICE OF CLAIM TO A WATER RIGHT
ACQUIRED UNDER STATE LAW

1. Name: GREENE TREE INC.
Address: P.O. BOX 114
ATLANTA, ID

83601

2. Date of Priority: SEP 12, 1973

3. Source: JOE DALEY CREEK
GRAYLOCK CREEK

Trib. to: BOISE RIVER, MIDDLE FORK
BOISE RIVER, MIDDLE FORK

4. Point of Diversion:

Township	Range	Section	1/4 of	1/4 of	1/4	Lot	County
06N	11E	35	SE	NE	NW		ELMORE

5. Description of diverting works:
RESERVOIR & SPRINKLERS.

6. Water is used for the following purposes:

Purpose	From	To	C.F.S.	(or)	A.F.A.
IRRIGATION	04/15	10/15	0.480		
IRRIGATION STORAGE	10/15	04/15			98.00
IRRIGATION FROM STORAGE	04/15	10/15			98.00

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

A.F.A.

8. Total consumptive use is 100.0 Acre Feet Per Annum.

9. Non-irrigation uses:
NA

10. Place of Use:

Township	Range	Section	1/4 of	1/4	Lot	Use	Acres
06N	11E	35	NE	NW		IRR	10.0
			SE	NW		IRR	30.0
						Section Acres	40.0
						Total Acres	40.0

11. Place of use in counties: ELMORE

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

13. Other Water Rights Used:
PER. 63-3609.

14. Remarks:
SOURCES ARE JOE DALEY CK. & GRAYLOCK CK.

15. Basis of Claim: PERMIT

16. Signature(s)

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

Number of attachments: 1

For Organizations:

I do solemnly swear or affirm that I am Agent of Greene Tree Inc , that I have signed the foregoing document in the space below as Agent of Greene Tree Inc and that the statements contained in the foregoing document are true and correct.

 [Signature]
Signature of Authorized Agent
 Greene Tree Inc
Title and Organization
 11/30/89
Date

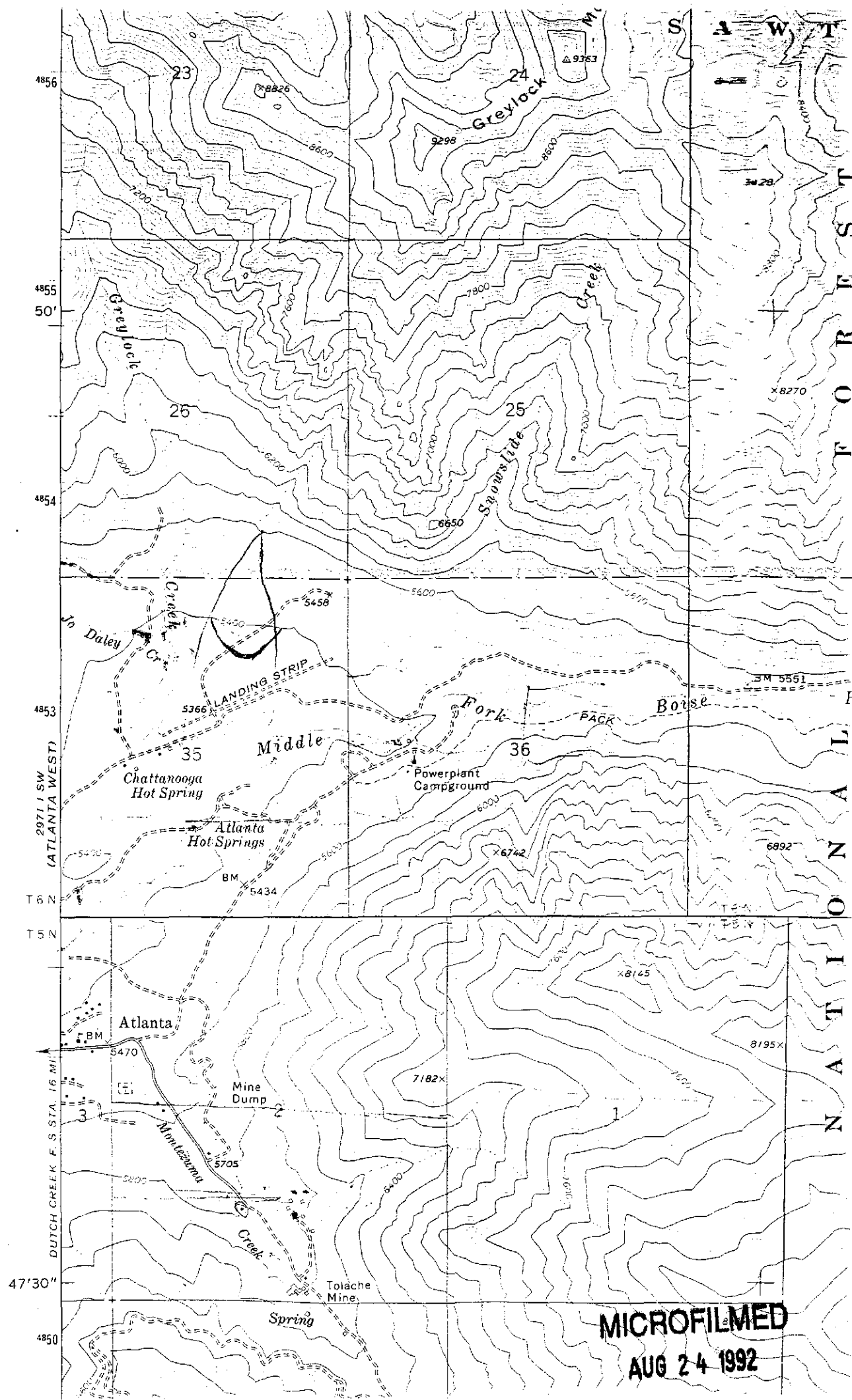
State of Idaho)
County of Ada) SS.

Subscribed and sworn (or affirmed) before me this 30 day
of November 19 89

 [Bruce A. Schulz]
Notary Public

Seal

Residing at [Address]
My Commission Expires [Date]



MICROFILMED
AUG 24 1992

03/20/2002

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

RIGHT NUMBER: 63-7866
NAME AND ADDRESS: GREENE TREE INC
1 GREYLOCK LN
ATLANTA ID 83601
SOURCE: GREYLOCK CREEK
JOE DALEY CREEK
QUANTITY: 0.48 CFS
235.0 AFY

TRIBUTARY: MIDDLE FORK BOISE RIVER
TRIBUTARY: MIDDLE FORK BOISE RIVER

USE OF THIS RIGHT WITH RIGHT NO. 63-2532 IS LIMITED TO A TOTAL COMBINED
DIVERSION RATE OF .30 CFS FROM GREYLOCK CREEK.

USE OF THIS RIGHT WITH RIGHTS LISTED BELOW IS LIMITED TO A TOTAL
COMBINED DIVERSION RATE OF 1.44 CFS. COMBINED RIGHT NOS.: 63-2532 &
63-3609.

USE OF THIS RIGHT WITH RIGHTS LISTED BELOW IS LIMITED TO A TOTAL
COMBINED DIVERSION RATE OF .02 CFS AND TO A TOTAL COMBINED ANNUAL
DIVERSION VOLUME OF 3.5 AF PER ACRE AT FIELD HEADGATE. COMBINED RIGHT
NOS.: 63-2532 & 63-3609

PRIORITY DATE: 09/12/1973

POINT OF DIVERSION:

T06N R11E S35 NENW Within ELMORE County
T06N R11E S35 SENW Within ELMORE County

PURPOSE AND
PERIOD OF USE:

PURPOSE OF USE	PERIOD OF USE	QUANTITY
IRRIGATION	04/15 10/31	0.480 CFS 140.00 AFY
DIVERSION TO STORAGE	01/01 12/31	0.300 CFS
IRRIGATION FROM STORAGE	04/15 10/31	95.00 AFY
IRRIGATION STORAGE	01/01 12/31	95.00 AFY

PLACE OF USE: IRRIGATION Within ELMORE County

T06N R11E S35	NENE	1.2	T06N R11E S35	NWNE	0.8
T06N R11E S35	SWNE	12.7	T06N R11E S35	SENE	1.9
T06N R11E S35	NENW	0.8	T06N R11E S35	SWNW	1.6
T06N R11E S35	SENE	33.5	T06N R11E S35	NESW	12.9
T06N R11E S35	NWSW	5.1	T06N R11E S36	NWNW	1.6

DIVERSION TO STORAGE same as IRRIGATION
IRRIGATION FROM STORAGE same as IRRIGATION
IRRIGATION STORAGE same as IRRIGATION

72.1 ACRES TOTAL

THIS RIGHT IS LIMITED TO THE IRRIGATION OF 40 ACRES WITHIN THE PLACE OF USE
DESCRIBED ABOVE IN A SINGLE IRRIGATION SEASON.

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

03/20/2002

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

THIS PARTIAL DECREE IS SUBJECT TO SUCH GENERAL PROVISIONS
NECESSARY FOR THE DEFINITION OF THE RIGHTS OR FOR THE EFFICIENT
ADMINISTRATION OF THE WATER RIGHTS AS MAY BE ULTIMATELY
DETERMINED BY THE COURT AT A POINT IN TIME NO LATER THAN THE
ENTRY OF A FINAL UNIFIED DECREE. SECTION 42-1412(6), IDAHO CODE,
PROPERTY IS ALSO KNOWN AS HOMESTEAD ENTRY SURVEY NOS. 39
AND 106.

EXPLANATORY MATERIAL: License

IDAHO DEPT OF WATER RESOURCES

Claim No(s) 63-7866
T06N, R11E, Sec 35, 36
Prepared by: Maria Minicucci
February 7, 2002

-  Place of use
-  Point of diversion
-  Section Lines
-  Quarter quarter lines



400 0 400 800 Feet



02/08/2002

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

RIGHT NUMBER: 63-7866

NAME AND ADDRESS: GREENE TREE INC
1 GREYLOCK LN
ATLANTA ID 83601

SOURCE: GREYLOCK CREEK
JOE DALEY CREEK

TRIBUTARY: MIDDLE FORK BOISE RIVER
TRIBUTARY: MIDDLE FORK BOISE RIVER

QUANTITY: 0.48 CFS
235.0 AFY

USE OF THIS RIGHT WITH RIGHT NO. 63-2532 IS LIMITED TO A TOTAL COMBINED
DIVERSION RATE OF .30 CFS FROM GREYLOCK CREEK.

USE OF THIS RIGHT WITH RIGHTS LISTED BELOW IS LIMITED TO A TOTAL
COMBINED DIVERSION RATE OF .02 CFS AND TO A TOTAL COMBINED ANNUAL
DIVERSION VOLUME OF 3.5 AF. COMBINED RIGHT NOS.: 63-2532 & 63-3609

PRIORITY DATE: 09/12/1973

POINT OF DIVERSION:

T06N R11E S35 NENW Within ELMORE County

T06N R11E S35 SENW Within ELMORE County

PURPOSE AND
PERIOD OF USE:

PURPOSE OF USE	PERIOD OF USE	QUANTITY
IRRIGATION	04/15 10/31	0.480 CFS 140.00 AFY
DIVERSION TO STORAGE	01/01 12/31	0.300 CFS
IRRIGATION FROM STORAGE	04/15 10/31	95.00 AFY
IRRIGATION STORAGE	01/01 12/31	95.00 AFY

PLACE OF USE: IRRIGATION Within ELMORE County

T06N R11E S35	NENE	1.2	T06N R11E S35	NWNE	0.8
T06N R11E S35	SWNE	12.7	T06N R11E S35	SENE	1.9
T06N R11E S35	NENW	0.8	T06N R11E S35	SWNW	1.6
T06N R11E S35	SENW	33.5	T06N R11E S35	NESW	12.9
T06N R11E S35	NWSW	5.1	T06N R11E S36	NWNW	1.6

DIVERSION TO STORAGE same as IRRIGATION
IRRIGATION FROM STORAGE same as IRRIGATION
IRRIGATION STORAGE same as IRRIGATION

72.1 ACRES TOTAL

USE OF THIS RIGHT WITH THE RIGHT LISTED BELOW IS LIMITED TO THE IRRIGATION
OF A COMBINED TOTAL OF 72.1 ACRES IN A SINGLE IRRIGATION SEASON.
COMBINED RIGHT NO.: 63-2532 3009

THIS RIGHT IS LIMITED TO THE IRRIGATION OF 40 ACRES WITHIN THE PLACE OF USE
DESCRIBED ABOVE IN A SINGLE IRRIGATION SEASON.

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

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

PROPERTY IS ALSO KNOWN AS HOMESTEAD ENTRY SURVEY NOS. 39
AND 106.

EXPLANATORY MATERIAL: License

Western
RECEIVED
SEP 05 2001
WATER RESOURCES
WESTERN REGION

State of Idaho
Department of Water Resources
Water Right License

WATER RIGHT NO. 63-07866

Priority: September 12, 1973

Maximum Diversion Rate: 0.48 CFS
Maximum Diversion Volume: 235.0 AF

It is hereby certified that GREENE TREE INC
PO BOX 39
ATLANTA ID 83601 has complied with the terms and
conditions of the permit, issued pursuant to Application for Permit dated September 12, 1973; and has
submitted Proof of Beneficial Use on September 19, 1983. An examination indicates that the works
have a diversion capacity of 4.58 cfs of water from:

SOURCE

GREYLOCK CREEK
JOE DALEY CREEK

Tributary: MIDDLE FORK BOISE RIVER
MIDDLE FORK BOISE RIVER

and a water right has been established as follows:

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL DIVERSION VOLUME</u>
IRRIGATION	04/15 to 10/31	0.48 CFS	140.0 AF
IRRIGATION STORAGE	01/01 to 12/31		95.0 AF
IRRIGATION FROM STORAGE	04/15 to 10/31		95.0 AF
DIVERSION TO STORAGE	01/01 to 12/31	0.30 CFS	

LOCATION OF POINT(S) OF DIVERSION:

GREYLOCK CREEK NE $\frac{1}{4}$ NW $\frac{1}{4}$ Sec. 35, Twp 06N, Rge 11E, B.M., ELMORE County
JOE DALEY CREEK SE $\frac{1}{4}$ NW $\frac{1}{4}$ Sec. 35, Twp 06N, Rge 11E, B.M., ELMORE County

PLACE OF USE: IRRIGATION

Twp Rge Sec	NE				NW				SW				SE				Totals
	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
06N 11E 35	1.2	.8	12.7	1.9	.8		1.6	33.5	12.9	5.1							70.5
06N 11E 36						1.6											1.6

Total Acres: 72.1

PLACE OF USE: IRRIGATION FROM STORAGE – Same as Irrigation

CONDITIONS OF APPROVAL

1. Use of water under this water right will be regulated by the watermaster of State Water District No. 63.
2. Upon specific notification by the Department, the right holder shall install and maintain permanent measuring devices that will provide the watermaster suitable control of the diversions.

State of Idaho
Department of Water Resources
Water Right License

WATER RIGHT NO. 63-07866

3. This right is limited to the irrigation of 40 acres within the place of use described above in a single irrigation season.
4. Right 63-02532 is also diverted through the point of diversion located in the NENW, S35, T06N, R11E.
- EO1 5. Rights 63-02532 and 63-07866 when combined shall not exceed a total diversion rate of 0.30 cfs of water from Greylock Creek.
6. Rights 63-07866 and 63-02532 when combined shall not exceed the irrigation of 72.1 acres.
7. This right when combined with all other rights shall provide no more than 0.02 cfs per acre nor more than 3.5 afa per acre at the field headgate for irrigation of the lands above.
8. Place of use also known as H.E.S. 39 and H.E.S. 106

This license is issued pursuant to the provisions of Section 42-219, Idaho Code. The water right confirmed by this license is subject to all prior water rights and shall be used in accordance with Idaho law and applicable rules of the Department of Water Resources.

Signed and sealed this 31ST day of August, 2001.

Acting for 
KARL J. DREHER
Director



State of Idaho

DEPARTMENT OF WATER RESOURCES

Western Region, 2735 Airport Way, Boise, Idaho 83705-5082 - (208) 334-2190

FAX (208) 334-2348

DIRK KEMPTHORNE
Governor

KARL J. DREHER
Director

July 18, 2001

GREENE TREE INC
1 GREYLOCK LN
ATLANTA ID 83601

Re: Notice of Claim to a Water Right No. 63-2532, 63-3609, 63-7866, 63-7891, 63-9683 &
63-9684

Dear Claimant(s):

Enclosed are copies of the above referenced claims, which reflect the change in address.

The Department will contact you in the future concerning any requirements that may be needed in order to process this claim for final court decree.

Thank you for your patience and cooperation, as we have had several ownership changes to process. If you have any questions concerning the enclosed claim, please feel free to contact this office.

Sincerely,

A handwritten signature in cursive script that reads "Denise Buffington".

Denise Buffington
Office Specialist 1
Adjudication Section
Western Region Office

DB:db

Enclosure

COPY

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No. 63-07866

1. Owner: GREENE TREE INC. Phone No. (208) 864-2168

Current Address: PO BOX 39 ATLANTA, ID 83601

2. Accompanied by: ALVA GREENE & LLOYD STONE ('1988 EXAM) JIM BIVENS (2000 EXAM)

EXAM DATE : 7/20/1988 & 9/12/2000

Address: (1988 EXAM = PO BOX 114 ATLANTA, ID 83601) (2000 EXAM = SAME AS CURRENT ADDRESS)

Phone No. (1988 EXAM = 864-2172 & 8642173) (2000 EXAM = (208) 864-2170)

Relationship to Permit Holder: RESORT MANAGER

3. Source: GREYLOCK CREEK AND JOE DALEY CREEK tributary to BOISE RIVER, MIDDLE FORK

B. OVERLAP REVIEW

1. Other water rights with the same place of use: 63-02532, 63-03609, 63-07891, 63-09683, AND 63-09684

2. Other water rights with the same point of diversion: 63-02532

C. DIVERSION AND DELIVERY SYSTEM

1. Point(s) of Diversion:

Ident No.	Govt. Lot	¼	¼	¼	Sec.	Twp.	Rge.	County	Method of Determination/Remarks
GREYLOCK P/D	H.E.S. 39		NE	NW	35	06N	11E	ELMORE	GIS NAPP AERIAL PHOTOGRAPHY VISUAL INSPECTION AND GPS
JOE DALEY P/D	H.E.S. 39		SE	NW	35	06N	11E	ELMORE	GIS NAPP AERIAL PHOTOGRAPHY VISUAL INSPECTION AND GPS

2. Place(s) of Use:

Indicate Method of Determination SAME AS POINT OF DIVERSION

TWP	RGE	SEC	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
06N	11E	35	1.2	.8	12.7	1.9	.8		1.6	33.5	12.9	5.1							70.5 ACRES
		36						1.6											1.6 ACRES
																			TOTAL ACRES
																			72.1

PLEASE NOTE: This permit is for 40 acres within the above described permissible place of use of 72.1 acres.

3. **Delivery System Diagram:** Indicate all major components and distances between components. Indicate weir size/pipe i.d. as applicable.

size/c

SEE ATTACHED SHEET.

YES Copy of USGS Quadrangle Attached Showing location(s) of point(s) of diversion and place(s) of use (required).

YES Aerial Photo Attached (required for irrigation of 10+ acres).

YES Photo of Diversion and System Attached

4.

Well or Diversion Identification No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
DAILY CREEK P/D		2 Hp			
RELIFT PUMP		10 Hp			

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

D. FLOW MEASUREMENTS

1.

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date
AQUA CALC AND PYGMY METER	PYGMY METER	AQUA CALC	5000	1046	N/A	N/A
MANNINGS FORMULA	N/A	N/A	N/A	N/A	N/A	N/A

2. **Measurements:** A flow measurement was made on Greylock Creek using the AquaCalc digitizer and a pygmy meter. The Chinamen's Ditch and Joe Daley Creek did not have water in them so a Manning's theoretical calculation was used to calculate the maximum flow. Greylock Creek looked to be flowing at maximum capacity, but could possibly have a higher flow during the spring runoff. However, this flow would probably overflow the banks and would not be measurable.

E. NARRATIVE/REMARKS/COMMENTS

This permit was field examined in 1988 by Randall Pfaff. However, Mr. Pfaff did not mention Joe Daley Creek that was listed on the permit and added Snowslide Creek as a point of diversion. Since we can not add new sources of water through a licensing amendment, I disregarded Mr. Pfaff's field exam and re-examined the permit.

2000 FIELD EXAM NARRATIVE/ REMARKS/COMMENTS

On 9/12/2000 Ron Howerton and I performed a second field exam on this permit. During this field exam Mr. Howerton gave input regarding how the Snake River Basin Adjudication (SRBA) would view the claims associated with this permit. This information was valuable in reviewing the overlapping water rights for the Place of Use. Mr. Howerton also worked with me to gather the data needed for the Mannings equations used on the Chinamen's ditch and Joe Daley Creek.

There are multiple sources of water that contribute to the irrigation of the lands described and the maintenance of the pond for this permit. **The first**

source of water for this pond is the Chinamen's ditch listed under water right 63-03609. Mr. Howerton and I calculated the maximum flow rate of this ditch at 5.21 cfs. This ditch originally was a ditch diverted from the Middle Fork of the Boise River. However, this diversion has not been used in some time and looks to be abandoned. This ditch does still supply water for irrigation through the pond from Snowslide Creek and other runoff from the nearby mountains. This ditch has always been used as catch basin for Snowslide Creek and the other runoff streams, resulting in an accomplished transfer on 63-03609.

The second source of water for the pond and the irrigation is Greylock Creek. This creek enters the pond on the north end of the pond. This creek is the main water supply for the pond.

The third source of water for the irrigation is Joe Daley Creek. This Creek does not enter the pond directly, but can be routed to the pond in a round about way. Joe Daley Creek is the main source of irrigation for the lawn area around the main lodge. A 12,000 underground vault is used to capture water from Joe Daley Creek to irrigate the lawn. A buried pipeline from the main pond also feeds the underground vault to ensure there is enough irrigation water for the lawn area.

The fourth source of water for irrigation is the lower pond. The lower pond is fed by springs. The water from this pond is run through a ditch to a re-lift station that pumps water to irrigate the airstrip or it can send water up to the main pond. Waste water from the ditches used to irrigate the pastures and water from Joe Daley Creek can also be diverted into the this re-lift station. This ties the entire system together and most of the water can be reused if necessary.

The Irrigation system consists of a main ditch that runs from the point where the Chinamen's Ditch enters the main pond down to the field's edge to the middle of the field and then runs diagonally across the field to the southwest corner. After the ditch crosses under the road, it runs south to the re-lift station or continues onto the river and irrigates the lower meadow. There is also an 8" outlet in the pond that sends water to a horse trough just south of the pond. The water at this point can be run into the horse trough or overflowed into the upper pasture to irrigate the upper pasture. The outlet to the pond also has a buried mainline that runs to the 12,000-gallon tank at the Joe Daley Creek P/D. The water from the 12,000-gallon storage tank is pumped out by a 2 Hp pump to the sprinkler system for the lawn around the main lodge. Any overflow of the tanks or Joe Daley Creek is run down a ditch under the road to the other re-lift station. The lower re-lift station captures water overflowing from the lower pond by the springs and the other 2 ditches and pumps this water with a 10 Hp submersible pump to the sprinklers on the landing strip or up to the main pond.

The overlap for this permit results in two significant overlapping irrigation rights (63-03609 & 63-2532). Water right 63-03609 should not be a problem, since it lists the Boise River as the source and is the water delivered by the Chinamen's ditch. This ditch is not connected to either of the sources listed on this permit and should not cause a problem. There is no storage component associated with this water right and only can supplement the storage in the main pond during the irrigation season. This is not a problem since the water in the Chinamen's ditch rarely flows past the end of July. Water right 63-02532 does list Greylock Creek as a source, but this permit does not have a storage component, so this permit can list Greylock Creek as a source for the storage components only. There are no water rights listing Joe Daley Creek as a source, this allows us to keep the irrigation component for this water right by limiting it to only the natural flow from Joe Daley Creek. This permit should limit Greylock Creek to the storage components and Greylock Creek should be the only source allowed for Diversion to Storage. The other water rights that overlap this permit are for domestic use or heating and do not affect this permit. The remaining overlapping rights are for domestic and heating uses involving the lodge and do not impact the irrigation components of this right.

RECOMMENDATIONS:

1.) I recommend that the irrigation component of this permit be limited to 0.48-cfs diversion rate and 140-afa annual volume. The source for the irrigation component is Joe Daley Creek and should not include Greylock Creek. Greylock Creek already has an irrigation right under permit 63-02532.

2.) I recommend that a diversion to storage component be added to this permit for the water being diverted from Greylock Creek into the storage pond. The diversion to storage component should be limited to the amount measured from Greylock Creek of 0.30 cfs.

3.) The irrigation storage component will be limited by the storage capacity of the main pond. The storage capacity for this pond was determined by the Dam Safety division of IDWR for the amount of 95-acre feet.

4.) The irrigation from storage component will be limited by the storage capacity of the main pond of 95-acre feet.

5.) I could not find a storage component in any of the rights for the lower pond. However, it is fed by springs that are not listed on this permit and should not be included in this permit. The owners did file permit 63-09440 for power generation that included this pond for power storage. However, this permit lapsed because the owner's could not get FERC approval. The pond is a result of this permit. Even though this pond is not fed by Boise River water it is fed by springs and the overflow is used for irrigation purposes. The owners should file a water right to use the springs for irrigation, but I do not think that pond requires a water right since it is incidental pond from the development of the lapsed permit.

6.) The water from the Chinamen's Ditch is associated with water right 63-03609. An accomplished transfer should be recognized for this right in the SRBA to include Snowslide Creek as a source and possibly removing the Boise River diversion since it has not been used in some time.

Have conditions of permit approval been met? ___ yes X no *

* No measurement devices have been installed for either the inflow or outflow of the pond or any of the creek diversions.

F. FLOW CALCULATIONS

YES Additional Computation Sheets Attached

Measured Method:

Greylock Creek diversion rate = 0.30 cfs

Joe Daley Creek diversion rate = 4.28 cfs

Chinamen's Ditch diversion rate = 5.21 cfs

The diversion to storage component for this right should be limited to the diversion rate of Greylock Creek or 0.30 cfs. The irrigation component of this right should be limited to Joe Daley Creek, since Greylock Creek has a full irrigation right already on this Creek. The maximum allowable diversion rate or what was requested on the permit will limit the irrigation component. The maximum allowable diversion rate is 0.80 cfs or .02 cfs per acre for 40 acres, which is greater than the permitted amount of 0.48 cfs. Therefore, the diversion rate allowed for irrigation will be 0.48 cfs. The Chinamen's Ditch rate does not affect any of the components of this permit, but was measured for reference.

G. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = (40) \times (3.5) = 140 \text{ afa}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation Season}) \times 1.9835 = (0.48) \times (200) \times (1.9835) = 190 \text{ afa}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 140 \text{ afa}$$

B

2. Volume Calculations for Other Uses:

The storage component will be limited to 95 afa. Please see Dam Safety Report for Storage Capacity.

H. RECOMMENDATIONS

1. Recommended Amounts

Beneficial Use	Period of Use		Rate of Diversion Q (cfs)	Annual Volume V (afa)
	From	To		
<u>IRRIGATION</u>	<u>04/15</u>	<u>10/31</u>	<u>0.48 CFS</u>	<u>140 AFA</u>
<u>DIVERSION TO STORAGE</u>	<u>01/01</u>	<u>12/31</u>	<u>0.30 CFS</u>	
<u>IRRIGATION STORAGE</u>	<u>01/01</u>	<u>12/31</u>		<u>95 afa</u>
<u>IRRIGATION FROM STORAGE</u>	<u>04/15</u>	<u>10/31</u>		<u>95 afa</u>
Totals:			<u>0.48 CFS</u>	<u>235 AFA</u>

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

I. AUTHENTICATION

DANIEL A. NELSON – SENIOR AGENT

Field Examiner's Name _____ Date _____

Reviewer _____ Date _____

SEAL

Chinle Creek P/D

Storeroom P/D

Old Point of Diversion
From Boise River
no longer used.

Buried pipe from
refill station.

Buried pipe from pond to water tank
and to irrigate upper pasture

Ditch used to irrigate lower pasture.

Buried sprinklers to I
irrigate strip

Saline diversion to

old diversion from
Boise River is
no longer used

Lower
Pond

Ditch from Lower Pond
to pump station.

Greenback Creek P/D

Main Pond

Buried pipe from main pond

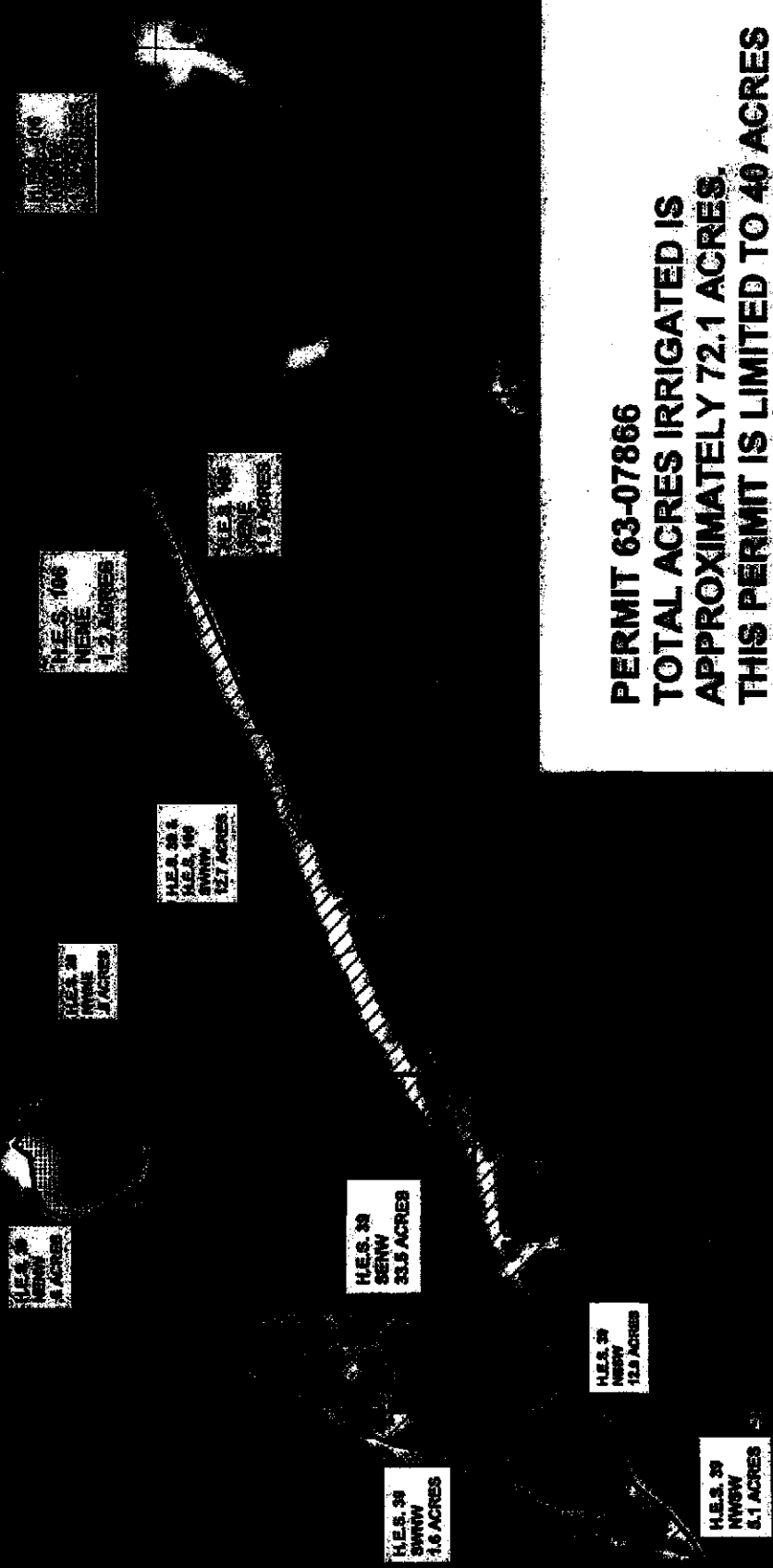
Joe Daley Creek P/D

12,000 gallon underground
storage tank

Underground sprinklers

Refill pump to move
water to main pond
and irrigate strip

Left over water enters water here



PERMIT 63-07866
TOTAL ACRES IRRIGATED IS
APPROXIMATELY 72.1 ACRES.
THIS PERMIT IS LIMITED TO 40 ACRES
WITHIN THE PERMISSIBLE PLACE
OF USE OF 72.1 ACRES

1990年10月10日
 星期五
 第10000号
 1990年10月10日
 星期五
 第10000号

**Old Point of Diversion
From Boise River
no longer used.**

Resisting diversion to lower courts

old diversion from
Boise River is
no longer used

**Letter
Board**

Back from Lower Pond
to Upper Station.

PR

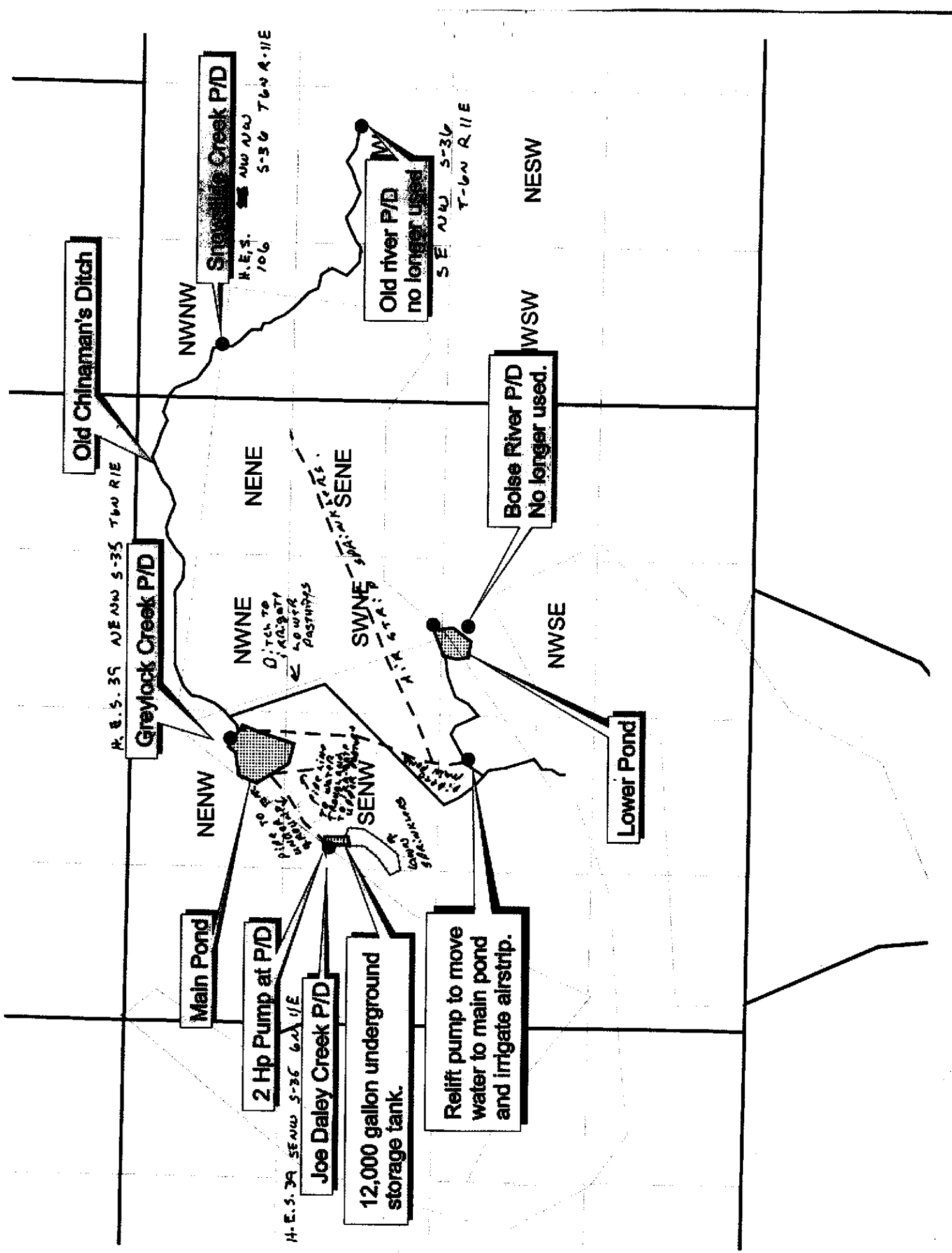
THE UNIVERSITY OF CHICAGO PRESS

Joe Daley Creek FWD

12,000 gallon underground storage tank

Another principle to remember
water is **main** power
and **pressure** is **flow**

Left on the Right



Old Chinaman's Ditch

H.E.S. 35 A.E.A.W 5-35 T-6W R 1E

Greylock Creek P/D

NWNW

Shoreline Creek P/D

H.E.S. 106 S.E.A.W 5-36 T-6W R 1E

Old river P/D
no longer used.

S.E.A.W 5-36 T-6W R 1E

WSW

Bolse River P/D
No longer used.

NESW

NENE

NWNE

SENE

SWNE

NWSE

Lower Pond

Main Pond

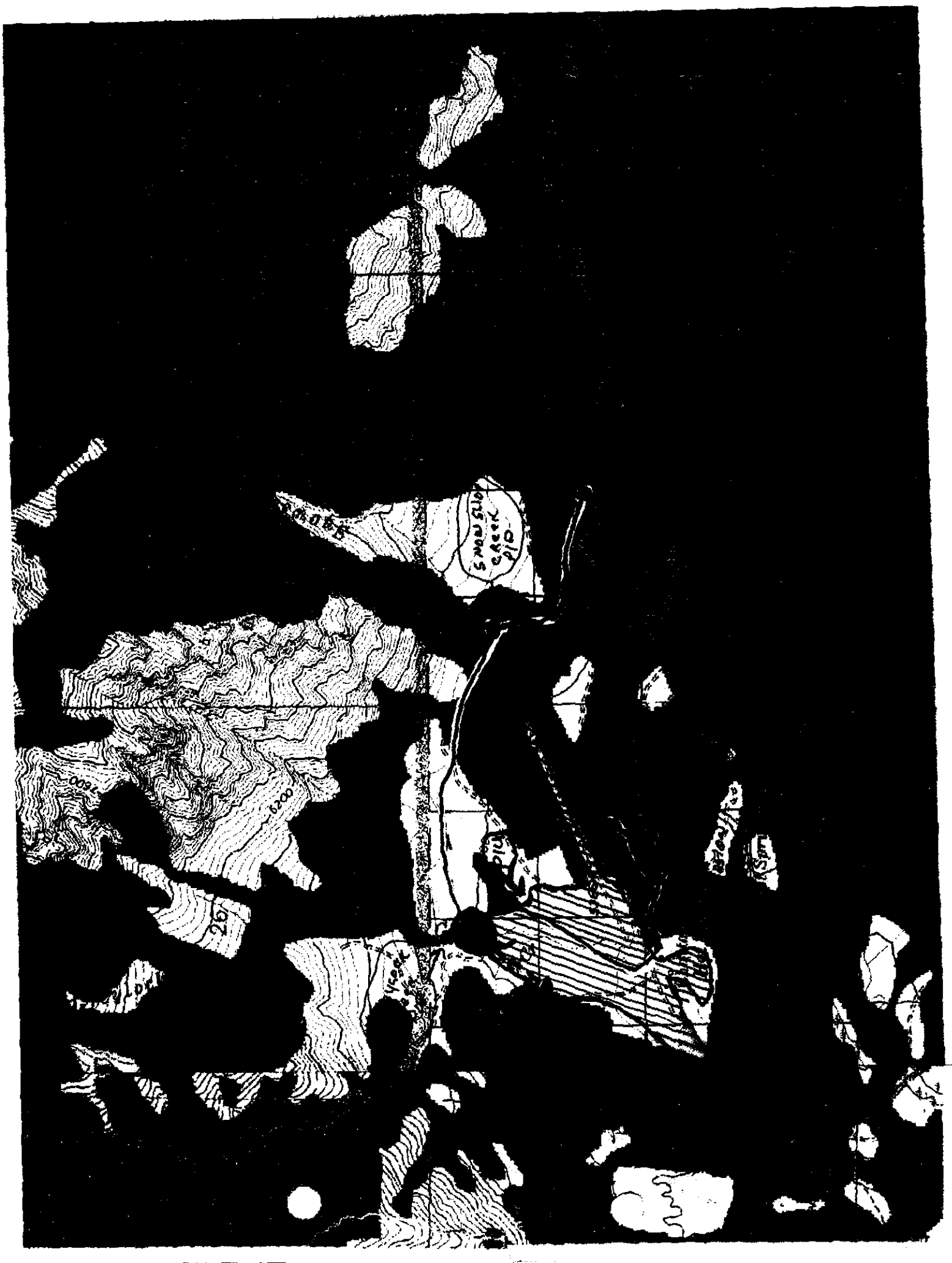
2 Hp Pump at P/D

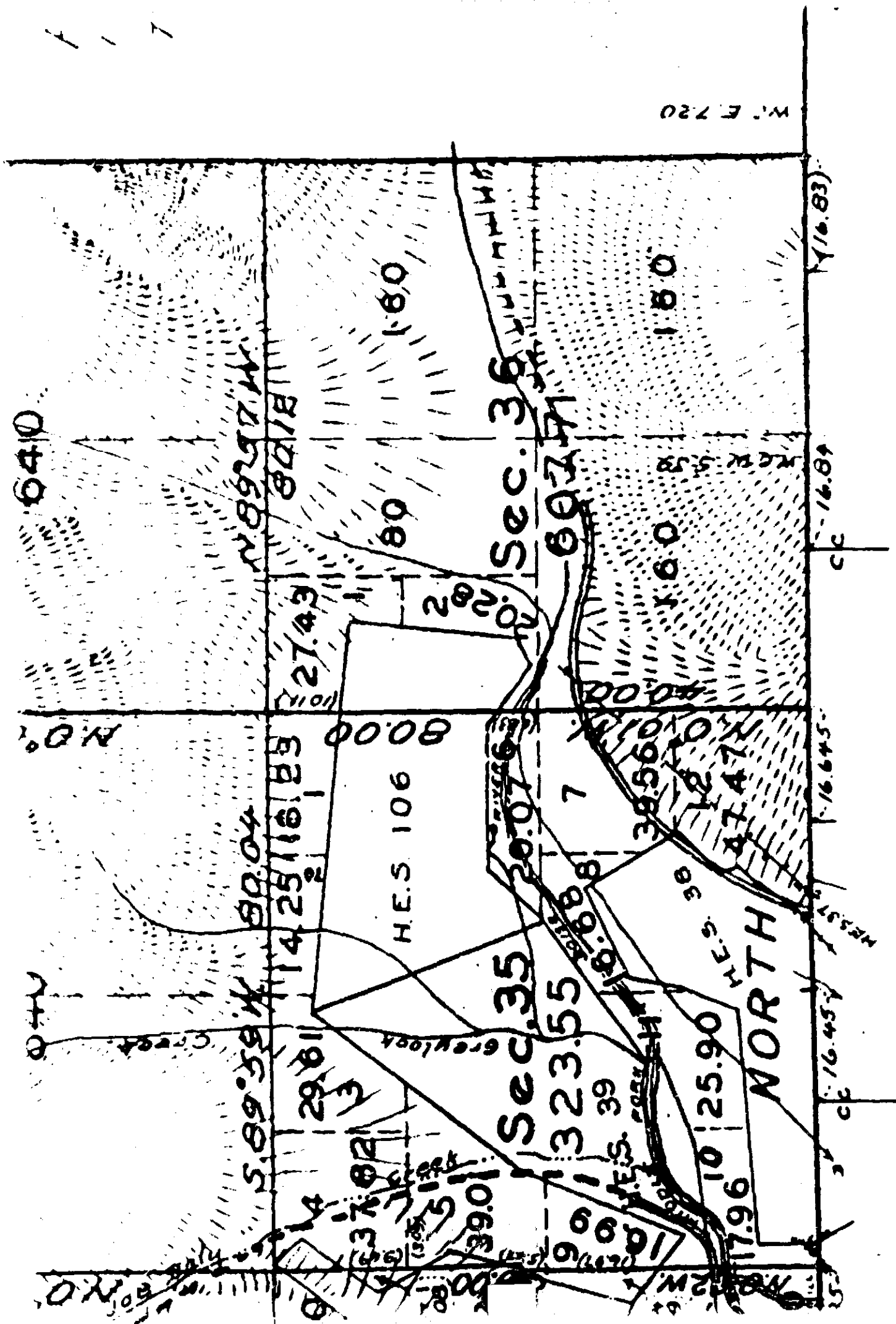
H.E.S. 39 S.E.A.W 5-36 62 1/2

Joe Daley Creek P/D

12,000 gallon underground storage tank.

Relift pump to move water to main pond and irrigate airstrip.





105

502

IDaho DEPARTMENT OF WATER RESOURCES
INVENTORY WORKSHEET - DMS

FORM NO. 1

Identification No. D63-7865
Name of Dam GREENE TREE
County ELMORE
River or Stream MID FRK BOISE RIVER (OFFST)
Purpose R (Specify if other)
Location Sec 35 Twship 6N Range 11E

OMIT- NOT BUILT
OR TOO SMALL

FORM NO. 2

Name of Owner GREENE TREE, INC
Owner's Phone No. 336-1016 CARL MYERS, ENGR (Alternate phone no.)
Address Line 1 C/O ALVA D GREENE, PRESIDENT

FORM NO. 3

Address Line 2 P O BOX 114
Address Line 3 City ATLANTA State ID Zip Code 8360

FORM NO. 4

Type of Dam EARTH (Other dam types)
Storage Capacity (ac-ft) , , 95
Height of Dam (ft) 18.0
Drain. Area (sq. mi.) .1
Res. Surface Area (ac) , 10
Year Completed PROP (Date enlarged, reconstructed, etc.)
Crest Elev. (M.S.L.) 5, 360 APPROXIMATE
Crest Length (ft) 2, 000 ESTIMATE (Dike lengths)
Spillway Type ERYCHAN (Auxiliary spillways)
Spillway Depth (ft) 3.0 (Aux. spillway depths)
Spillway Capacity (cfs) , 111 W/ 2.5' FREEBOARD
Hazard Classification 3
Region 2

FORM NO. 5

Last Inspection Month 00 Year 00
Approval Expiration Month 00 Year 00
General Condition NA
Q 100 (cfs) , 6 ESTIMATE
Outlet Type RNF CNP 15" DIA. PIPE
Outlet Capacity (cfs) , 20 ESTIMATE
Problems/Remarks

WATER RIGHT OVERLAP FOR PERMIT 63-7866

WATER RIGHT NUMBER	WATER RIGHT OVERLAP	ADJUDICATION CLAIM
63-09440	PERMIT LAPSED NO OVERLAP	CLAIM WILL BE DISALLOWED DUE TO LAPSED PERMIT
63-07891	NO OVERLAP SOURCE IS A SPRING AND USE IS FOR HEATING AND RECREATION	SAME AS WATER RIGHT NO OVERLAP SOURCE IS A SPRING AND USE IS FOR HEATING AND RECREATION
63-09683	NO OVERLAP SOURCE IS A SPRING AND USE IS FOR HEATINGS	SAME AS WATER RIGHT NO OVERLAP SOURCE IS A SPRING AND USE IS FOR HEATINGS
63-09684	NO OVERLAP SOURCE IS A SPRING AND USE IS FOR DOMESTIC USE AND FIRE SUPPRESSION	NO OVERLAP SOURCE IS A SPRING AND USE IS FOR DOMESTIC USE AND FIRE SUPPRESSION
63-02532	OVERLAPS PLACE OF USE ACRES UNKNOWN –EXCEPT OLD FIELD EXAM SHOWS 36 ACRES OF IRRIGATION OVERLAPS SOURCE – GREYLOCK CREEK	OVERLAPS PLACE OF USE 90 ACRES CLAIMED OVERLAPS SOURCE -SOURCE CLAIMED IS GREYLOCK AND SNOWSLIDE CREEK
63-03609	OVERLAPS PLACE OF USE 46 ACRES NO OVERLAP OF SOURCE- SOURCE IS BOISE RIVER	OVERLAPS PLACE OF USE 46 ACRES (Different legal description of acres than water right) NO OVERLAP OF SOURCE- SOURCE IS BOISE RIVER

The overlap for this place of use mainly comes from overlap of the acres irrigated. There are approximately 71 acres irrigated and none of the sources of water claim all 71 acres. All of the water is co-mingled so a permissible place of use would be the best avenue for recommending these rights.

The adjudication should also note that Snowslide Creek has been included with adjudication claim 63-02532, when it should have been included with 63-03609. 63-03609 is the right for the Chinamen's Ditch which is the original ditch for the Boise River diversion and has always captured Snowslide Creek. After a landslide many years ago, currently Snowslide Creek and various runoff from the mountain is the only source for the Chinamen's Ditch.

GRAYLOCK CREEK DISCHARGE MEASUREMENT

Aquacalc 5000 (tm) by JBS Instruments
Firmware Version AQUG7b (c)1993,'94,'95,'96,'97, 1999

GAGE ID#, 0
DATE, 9/12/00
TRANSECT, 5
USER ID#, 0
STAFF HEIGHT, 0.00
GAGE HEIGHT, 0.00
METER ID#, 0
AQUACALC ID#, 1046
METER TYPE, Pygmy ST2
METER CONST. C1, 0.9604
METER CONST. C2, 0.0312
METER CONST. C3, 0.9604
METER CONST. C4, 0.0312
METER CONST. C5, 1.0000
MEAS. SYSTEM, S.A.E. (English)
TOTAL STATIONS, 5
TOTAL WIDTH, 3.00
TOTAL AREA, 0.53
TOTAL DISCHARGE, 0.3013
MEAN VELOCITY, 0.56

ST.	,DIST	,DEPTH	,REVS	,TIME	,COS:VF	,LOC	,CLOCK	,VEL	,AREA	,FLOW(Q)
1,	2.9,	0.00,	0,	0.0,	1.00,	.6,	0:00,	0.000,	0.000,	0.0000,
2,	4.0,	0.30,	16,	40.7,	1.00,	.6,	17:01,	0.409,	0.240,	0.0981,
3,	4.5,	0.30,	42,	40.8,	1.00,	.6,	17:02,	1.020,	0.150,	0.1530,
4,	5.0,	0.20,	14,	41.0,	1.00,	.6,	17:04,	0.359,	0.140,	0.0502,
5,	5.9,	0.00,	0,	0.0,	1.00,	.6,	0:00,	0.000,	0.000,	0.0000,

MANNING EQUATION CHANNEL CAPACITY RESULTS

09-13-2000

File Number: 63-07866

Claimant:

Channel measured: CHINAMAN DITCH(BOISE RIVER & SNOWSLIDE CREEK)

Date of measurement: 9/12/00

Measurement location:

Calculation prepared by: DAN & RDH

Comments about the measurement:

The results of the calculation are:

The length of the channel measured is 107 feet.

The upstream and downstream rod readings are 3.86 and 6.15 feet.

The channel cross section is 1.31 ft-sq.

The wetted perimeter is 3.27 feet.

The hydraulic radius is 0.40 feet.

The slope is 0.0215

The roughness coefficient is 0.0300

The flow velocity is 3.969 ft/sec.

The rate of flow is 5.21 cfs.

CROSS SECTION NUMBER 1

For File Number 63-07866 for the
CHINAMAN DITCH(BOISE RIVER & SNOWSLIDE CREEK)

Number	Rod Reading	Water Depth	Distance
1	0.00	0.00	0.00
2	0.75	0.75	0.50
3	0.80	0.80	1.00
4	0.50	0.50	1.50
5	0.45	0.45	2.00
6	0.00	0.00	2.40

The area for this cross section is 1.23 square feet
and the wetted perimeter is 3.09 feet.

CROSS SECTION NUMBER 2

For File Number 63-07866 for the
CHINAMAN DITCH(BOISE RIVER & SNOWSLIDE CREEK)

Number	Rod Reading	Water Depth	Distance
1	0.00	0.00	0.00
2	0.50	0.50	0.50
3	0.60	0.60	1.00
4	0.75	0.75	1.50
5	0.55	0.55	2.00
6	0.40	0.40	2.50
7	0.00	0.00	3.00

The area for this cross section is 1.40 square feet
and the wetted perimeter is 3.44 feet.

1. EQUATION-DATA COLLECTION

Claim No(s): _____

Name of Claimant: _____

No. of Ditch, Canal, or Stream Name: COKE R & CREEKS (Snow Slide) CH

Date of Measurement: 9/12 Data Collected By: _____

Measurement Location: _____ 1/4 _____ 1/4 Section _____ T _____ R _____

General Description and Comments

Cross-section Data

Basis: High water mark ☒ Maximum capacity ()

Note: A minimum of five readings is necessary; first and last rod reading must be equal or zero.

upstream		Downstream	
Depth or Rod Reading	Dist. from Initial Point	Depth or Rod Reading	Dist. from Initial Point
1. <u>0</u>	<u>0</u>	11. <u>0</u>	<u>0</u>
2. <u>.75</u>	<u>.5</u>	12. <u>.5</u>	<u>.5</u>
3. <u>.8</u>	<u>1.0</u>	13. <u>.6</u>	<u>1.0</u>
4. <u>.5</u>	<u>1.5</u>	14. <u>.75</u>	<u>1.5</u>
<u>.45</u>	<u>2.0</u>	15. <u>.55</u>	<u>2.0</u>
5. <u>0</u>	<u>2.4</u>	16. <u>.4</u>	<u>2.5</u>
		17. <u>0</u>	<u>3.0</u>
		18. _____	_____
		19. _____	_____
		20. _____	_____

Slope Data

Basis: High water mark ☒ Channel bottom () Land surface ()

Channel length from cross section: Upstream 38.0 Downstream 68.5

Total channel length used for slope measurement: _____

Rod reading at engineers level: _____

Upstream rod reading 2.86 - High Water Mark(if taken from channel bottom) _____ = _____

Downstream rod reading 2.15 - High Water Mark(if taken from channel bottom) _____ = _____

Note: The downstream rod reading must be higher than the upstream rod reading.

Maps and/or photos attached? Yes ()

MANNING'S "n" (roughness coefficient)

BASIC "n" CHANNEL MATERIAL				CHANNEL OBSTRUCTIONS			
earth	.020		(1)	negligible	.000	X	(1)
rock	.025	X	(2)	minor	.010		(2)
fine gravel	.024		(3)		.015		(3)
coarse gravel	.028		(4)	appreciable	.020		(4)
					.030		(5)
				severe	.040		(6)
					.050		(7)
					.060		(8)
SURFACE IRREGULARITY				VEGETATION			
smooth	.000	X	(1)	low	.005	X	(1)
minor	.005		(2)		.010		(2)
moderate	.010		(3)	medium	.015		(3)
severe	.020		(4)		.020		(4)
					.025		(5)
				high	.030		(6)
					.040		(7)
					.050		(8)
				very high	.060		(9)
					.075		(10)
					.100		(11)
VARIATIONS IN SIZE AND SHAPE OF CROSS-SECTION				DEGREE OF MEANDERING			
gradual	.000	X	(1)	minor	1.00	X	(1)
occasional	.005		(2)	appreciable	1.15		(2)
frequent	.010		(3)	severe	1.30		(3)
	.015		(4)				

N0 is a basic n value for a straight, uniform, smooth channel in the natural materials involved, N1 is a value added to N0 to correct for the effect of surface irregularities, N2 is a value for variations in shape and size of the channel cross section, N3 is a value for obstructions, N4 is a value for vegetation and flow conditions, and N5 is a correction factor for meandering of a channel.

N0 MATERIAL INVOLVED

SMOOTH [0.020]
FINE SILT [0.025]
FINE GRAVEL [0.024]
COARSE GRAVEL [0.028]

N1 DEGREE OF IRREGULARITY

SMOOTH [0.000] for surfaces comparable to the best attainable for the materials involved.
MINOR [0.005] for good dredged channels, slightly eroded or scoured side slopes of canals or drainage channels.
MODERATE [0.010] for fair to poor dredged channels, moderately sloughed or eroded side slopes of canals or drainage channels.
SEVERE [0.020] for badly sloughed banks of natural streams, badly jagged and irregular surfaces of channels excavated in rock.

N2 CHARACTER OF VARIATIONS IN SIZE AND SHAPE OF CROSS SECTION

GRADUAL [0.000] when the change in size or shape occurs gradual.
ALTERNATING OCCASIONALLY [0.005] when large and small sections alternate occasionally or when shape changes cause occasional shifting of main flow from side to side.
ALTERNATING FREQUENTLY [0.010-0.015] when large and small sections alternate frequently or when shape changes cause frequently shifting of main flow from side to side.

N3 RELATIVE EFFECT OF OBSTRUCTIONS

This selection is based on the presence and characteristics of obstructions such as debris deposits, stumps, exposed roots, boulders, and fallen or lodged logs. In judging the relative effect of obstructions, consider the following: the extent to which the obstructions occupy or reduce the average water area, the character of obstructions (sharp-edged or angular objects induce greater turbulence than curved, smooth-surfaced objects), the position and spacing of obstructions transversely and longitudinally in the reach under consideration.
NEGLECTIBLE [0.000]
MINOR [0.010-0.015]
APPRECIABLE [0.020-0.030]
SEVERE [0.040-0.060]

N4 DEGREE OF EFFECT OF VEGETATION

LOW [0.005-0.010] a. dense growths of flexible turf grasses or weeds, of which Bermuda and blue grasses examples, where the average depth of flow is 2 to 3 times the height of vegetation, b. supple living tree switches, such as willow, cottonwood, or salt cedar where the average flow is 1 to 3 times the height of the vegetation.
MEDIUM [0.010-0.025] a. turf grasses where the average depth of flow is 1 to 2 times the height of vegetation. b. stemmy grasses, weeds, or tree seedlings with moderate cover where the average depth of flow is 2 to 3 times the height of vegetation. c. brushy growths, moderately dense, similar to willows to 2 years old, dormant season, along side slopes of a channel with no significant vegetation along the channel bottom, where the hydraulic radius is greater than 2 ft.
HIGH [0.025-0.050] a. turf grasses where the average depth of flow is about equal to the height of vegetation. b. dormant season- willow or cottonwood trees 8 to 10 years old, intergrown with some weeds and brush, none of the vegetation in foliage, where the hydraulic radius is greater than 2 feet.
growing season- brushy willows about 1 year old intergrown with weeds in full foliage along side slopes, no significant vegetation along channel bottom, where hydraulic radius is greater than 2 feet.

VERY HIGH [0.050-0.100] a. turf grasses where the average depth of flow is less than one-half the height of vegetation. b. growing season- bushy willows about 1 year old intergrown with weeds in full foliage along side slopes, or dense growth of cattails along channel bottom with any hydraulic radius up to 10 or 15 feet. c. growing season- trees intergrown with weeds and brush all in full foliage with any value of hydraulic radius up to 10 or 15 feet.

N5 DEGREE OF MEANDERING

The degree of meandering depends on the ratio of the meander length to the straight length of the channel reach.
MINOR [1.000] for ratios of 1.0 to 1.2.
APPRECIABLE [1.150] for ratios of 1.2 to 1.5.
SEVERE [1.300] for ratios of 1.5 and greater.

NOTE In applying the above method for determining the N value, several things should be noted. The method does not consider the effect of suspended bed loads. The values were developed from a study of 50 cases of small and moderate channels. Therefore, the method is questionable when applied to large channels whose hydraulic radii exceed 15 feet. The method applies only to unlined natural streams, floodways, drainage channels or ditches that shows a minimum value of 0.02 for the N value of such channels.

N0 is a basic N value for a straight, uniform, smooth channel in the natural materials involved, N1 is a value added to N0 to correct for the effect of surface irregularities, N2 is a value for variations in shape and size of the channel cross section, N3 is a value for obstructions, N4 is a value for vegetation and flow conditions, and N5 is a correction factor for meandering of a channel.

N0 MATERIAL INVOLVED

EARTH [0.020]
F. CUT [0.025]
I. GRAVEL [0.024]
COARSE GRAVEL [0.028]

N1 DEGREE OF IRREGULARITY

SMOOTH [0.000] for surfaces comparable to the best attainable for the materials involved.
MINOR [0.005] for good dredged channels, slightly eroded or scoured side slopes of canals or drainage channels.
MODERATE [0.010] for fair to poor dredged channels, moderately sloughed or eroded side slopes of canals or drainage channels.
SEVERE [0.020] for badly sloughed banks of natural streams, badly jagged and irregular surfaces of channels excavated in rock.

N2 CHARACTER OF VARIATIONS IN SIZE AND SHAPE OF CROSS SECTION

GRADUAL [0.000] when the change in size or shape occurs gradual.
ALTERNATING OCCASIONALLY [0.005] when large and small sections alternate occasionally or when shape changes cause occasional shifting of main flow from side to side.
ALTERNATING FREQUENTLY [0.010-0.015] when large and small sections alternate frequently or when shape changes cause frequently shifting of main flow from side to side.

N3 RELATIVE EFFECT OF OBSTRUCTIONS

This selection is based on the presence and characteristics of obstructions such as debris deposits, stumps, exposed roots, boulders, and fallen or lodged logs. In judging the relative effect of obstructions, consider the following: the extent to which the obstructions occupy or reduce the average water area, the character of obstructions (sharp-edged or angular objects induce greater turbulence than curved, smooth-surfaced objects), the position and spacing of obstructions transversely and longitudinally in the reach under consideration.

NEGLECTIBLE [0.000]
MINOR [0.010-0.015]
PRECEPTABLE [0.020-0.030]
SEVERE [0.040-0.060]

N4 DEGREE OF EFFECT OF VEGETATION

LOW [0.005-0.010] a. dense growths of flexible turf grasses or weeds, of which Bermuda and blue grasses examples, where the average depth of flow is 2 to 3 times the height of vegetation, b. supple tree switches, such as willow, cottonwood, or salt cedar where the average flow is 2 to 3 times the height of the vegetation.
MEDIUM [0.010-0.025] a. turf grasses where the average depth of flow is 1 to 2 times the height of vegetation. b. stemmy grasses, weeds, or tree seedlings with moderate cover where the average depth of flow is 2 to 3 times the height of vegetation. c. brushy growths, moderately dense, similar to willows to 2 years old, dormant season, along side slopes of a channel with no significant vegetation along the channel bottom, where the hydraulic radius is greater than 2 ft.
HIGH [0.025-0.050] a. turf grasses where the average depth of flow is about equal to the height of vegetation. b. dormant season- willow or cottonwood trees 8 to 10 years old, intergrown with some weeds and brush, none of the vegetation in foliage, where the hydraulic radius is greater than 2 foot.
growing season- brushy willows about 1 year old intergrown with weeds in full foliage along side slopes, no significant vegetation along channel bottom, where hydraulic radius is greater than 2 foot.

VERY HIGH [0.050-0.100] a. turf grasses where the average depth of flow is less than one-half the height of vegetation. b. growing season- bushy willows about 1 year old intergrown with weeds in full foliage along side slopes, or dense growth of cattails along channel bottom with any hydraulic radius up to 10 or 15 feet. c. growing season- trees intergrown with weeds and brush all in full foliage with any value of hydraulic radius up to 10 or 15 feet.

N5 DEGREE OF MEANDERING

The degree of meandering depends on the ratio of the meander length to the straight length of the channel reach.

MINOR [1.000] for ratios of 1.0 to 1.2.
PRECEPTABLE [1.150] for ratios of 1.2 to 1.5.
SEVERE [1.300] for ratios of 1.5 and greater.

NOTE In applying the above method for determining the N value, several things should be noted. The method does not consider the effect of suspended bed loads. The values were developed from a study of 0 to 50 cases of small and moderate channels. Therefore, the method is questionable when applied to large channels whose hydraulic radii exceed 15 feet. The method applies only to unlined natural streams, floodways, drainage channels or ditches that shows a minimum value of 0.02 for the N value of such channels.

FIELD SLOPE MEASUREMENT FORM FOR EXCESSIVE FLOW DATA

forms.slope.field



FIELD AGENT: _____

FX DATE: _____

CLAIM NUMBER(S): _____

FIELD NUMBER: _____
(Optional)

LOCATION: _____

FIELD READINGS

SLOPE DATA:

	<u>UPHILL</u>		<u>DOWNHILL</u>	
UPPER STADIA	_____		_____	
MIDDLE (SLOPE)	_____		_____	
LOWER STADIA	_____		_____	
Stadia Difference:	_____	+	_____	X 100 =
	<u>UPHILL</u>		<u>DOWNHILL</u>	
				SLOPE LENGTH
Slope Difference:	_____	-	_____	=
	<u>DOWNHILL</u>		<u>UPHILL</u>	
				FT DIST

NOTE: The downhill reading must be higher than the uphill reading.

CALCULATIONS:

	/		=	
FT DIST		SLOPE LENGTH		SLOPE FT/FT

MANNING EQUATION CHANNEL CAPACITY RESULTS

09-13-2000

File Number: 63-07866

Claimant:

Channel measured: JOE DALEY CREEK

Date of measurement: 9/12/00

Measurement location:

Calculation prepared by: DAN & RDH

Comments about the measurement:

The results of the calculation are:

The length of the channel measured is 218 feet.

The upstream and downstream rod readings are 1.44 and 13.51 feet.

The channel cross section is 1.43 ft-sq.

The wetted perimeter is 4.88 feet.

The hydraulic radius is 0.29 feet.

The slope is 0.0553

The roughness coefficient is 0.0518

The flow velocity is 2.991 ft/sec.

The rate of flow is 4.28 cfs.

CROSS SECTION NUMBER 1

For File Number 63-07866 for the JOE DALEY CREEK

Number	Rod Reading	Water Depth	Distance
1	0.00	0.00	0.00
2	0.30	0.30	0.50
3	0.30	0.30	1.00
4	0.30	0.30	1.50
5	0.20	0.20	2.00
6	0.30	0.30	2.50
7	0.30	0.30	3.00
8	0.40	0.40	3.50
9	0.25	0.25	4.00
10	0.00	0.00	4.60

The area for this cross section is 1.19 square feet
and the wetted perimeter is 4.78 feet.

CROSS SECTION NUMBER 2

For File Number 63-07866 for the JOE DALEY CREEK

Number	Rod Reading	Water Depth	Distance
1	0.00	0.00	0.00
2	0.30	0.30	1.00
3	0.40	0.40	1.50
4	0.45	0.45	2.00
5	0.50	0.50	2.50
6	0.60	0.60	3.00
7	0.50	0.50	3.50
8	0.35	0.35	4.00
9	0.00	0.00	4.80

The area for this cross section is 1.68 square feet
and the wetted perimeter is 4.97 feet.

Claim No(s): _____

Name of Claimant: _____

No. of Ditch, Canal, or Stream Name: DAILEY CR

Date of Measurement: 9-12-00 Data Collected By: RJL

Measurement Location: _____ 1/4 _____ 1/4 Section _____ T _____ R _____

General Description and Comments

Cross-section Data

Basis: High water mark (X) Maximum capacity ()

Note: A minimum of five readings is necessary; first and last rod reading must be equal or zero.

<i>upstream</i>		<i>Downstream</i>	
Depth or Rod Reading	Dist. from Initial Point	Depth or Rod Reading	Dist. from Initial Point
1. <u>0</u>	<u>0</u>	11. <u>0</u>	<u>0</u>
2. <u>.30</u>	<u>.5</u>	12. <u>.3</u>	<u>1.0</u>
3. <u>.30</u>	<u>1.0</u>	13. <u>.4</u>	<u>1.5</u>
4. <u>.30</u>	<u>1.5</u>	14. <u>.45</u>	<u>2.0</u>
<u>.2</u>	<u>2.0</u>	15. <u>.5</u>	<u>2.5</u>
5. <u>.3</u>	<u>2.5</u>	16. <u>.6</u>	<u>3.0</u>
6. <u>.3</u>	<u>3.0</u>	17. <u>.5</u>	<u>3.5</u>
7. <u>.4</u>	<u>3.5</u>	18. <u>.35</u>	<u>4.0</u>
<u>.25</u>	<u>4.0</u>	19. <u>0</u>	<u>4.5</u>
<u>0</u>	<u>4.5</u>	20. _____	_____

Slope Data

Basis: High water mark (X) Channel bottom () Land surface ()

Channel length from cross section: Upstream 53.0 Downstream 164.5

Total channel length used for slope measurement: _____

Reading at engineers level: _____

Upstream rod reading .44 - High Water Mark (if taken from channel bottom) _____ = _____

Downstream rod reading 13.51 - High Water Mark (if taken from channel bottom) _____ = _____

Note: The downstream rod reading must be higher than the upstream rod reading.

Maps and/or photos attached? Yes ()

165
98.0
164.5

MANNING'S "n" (roughness coefficient)

BASIC "n" CHANNEL MATERIAL				CHANNEL OBSTRUCTIONS			
earth	.020		(1)	negligible	.000		(1)
rock	.025	X	(2)	minor	.010	X	(2)
fine gravel	.024		(3)		.015		(3)
coarse gravel	.028		(4)	appreciable	.020		(4)
					.030		(5)
				severe	.040		(6)
					.050		(7)
					.060		(8)
SURFACE IRREGULARITY				VEGETATION			
smooth	.000		(1)	low	.005	X	(1)
minor	.005	X	(2)		.010		(2)
moderate	.010		(3)	medium	.015		(3)
severe	.020		(4)		.020		(4)
					.025		(5)
				high	.030		(6)
					.040		(7)
					.050		(8)
				very high	.060		(9)
					.075		(10)
					.100		(11)
VARIATIONS IN SIZE AND SHAPE OF CROSS-SECTION				DEGREE OF MEANDERING			
gradual	.000	X	(1)	minor	1.00	/	(1)
occasional	.005		(2)	appreciable	1.15	X	(2)
frequent	.010		(3)	severe	1.30		(3)
	.015		(4)				

N₀ is a basic n value for a straight, uniform, smooth channel in the natural materials involved, N₁ is a value added to N₀ to correct for the effect of surface irregularities, N₂ is a value for variations in shape and size of the channel cross section, N₃ is a value for obstructions, N₄ is a value for vegetation and flow conditions, and h₅ is a correction factor for meandering of a channel.

N₀ MATERIAL INVOLVED

SMOOTH [0.020]
FINE SILT [0.025]
FINE GRAVEL [0.024]
COARSE GRAVEL [0.028]

N₁ DEGREE OF IRREGULARITY

SMOOTH [0.000] for surfaces comparable to the best attainable for the materials involved.
MINOR [0.005] for good dredged channels, slightly eroded or scoured side slopes of canals or drainage channels.
MODERATE [0.010] for fair to poor dredged channels, moderately sloughed or eroded side slopes of canals or drainage channels.
SEVERE [0.020] for badly sloughed banks of natural streams, badly jagged and irregular surfaces of channels excavated in rock.

N₂ CHARACTER OF VARIATIONS IN SIZE AND SHAPE OF CROSS SECTION

GRADUAL [0.000] when the change in size or shape occurs gradual.
ALTERNATING OCCASIONALLY [0.005] when large and small sections alternate occasionally or when shape changes cause occasional shifting of main flow from side to side.
ALTERNATING FREQUENTLY [0.010-0.015] when large and small sections alternate frequently or when shape changes cause frequently shifting of main flow from side to side.

N₃ RELATIVE EFFECT OF OBSTRUCTIONS

This selection is based on the presence and characteristics of obstructions such as debris deposits, stumps, exposed roots, boulders, and fallen or lodged logs. In judging the relative effect of obstructions, consider the following: the extent to which the obstructions occupy or reduce the average water area, the character of obstructions (sharp-edged or angular objects induce greater turbulence than curved, smooth-surfaced objects), the position and spacing of obstructions transversely and longitudinally in the reach under consideration.
NEGLECTIBLE [0.000]
MINOR [0.010-0.015]
APPRECIABLE [0.020-0.030]
SEVERE [0.040-0.060]

N₄ DEGREE OF EFFECT OF VEGETATION

LOW [0.005-0.010] a. dense growths of flexible turf grasses or weeds, of which Bermuda and blue grasses are examples, where the average depth of flow is 2 to 3 times the height of vegetation, b. supple growing tree switches, such as willow, cottonwood, or salt cedar where the average flow is 2 to 3 times the height of the vegetation.
MEDIUM [0.010-0.025] a. turf grasses where the average depth of flow is 1 to 2 times the height of vegetation, b. stemmy grasses, weeds, or tree seedlings with moderate cover where the average depth of flow is 2 to 3 times the height of vegetation, c. brushy growths, moderately dense, similar to willows 1 to 2 years old, dormant season, along side slopes of a channel with no significant vegetation along the channel bottom, where the hydraulic radius is greater than 2 ft.
HIGH [0.025-0.050] a. turf grasses where the average depth of flow is about equal to the height of vegetation, b. dormant season- willow or cottonwood trees 8 to 10 years old, intergrown with some weeds and brush, none of the vegetation in foliage, where the hydraulic radius is greater than 2 feet, c. growing season- brushy willows about 1 year old intergrown with weeds in full foliage along side slopes, no significant vegetation along channel bottom, where hydraulic radius is greater than 2 feet.

VERY HIGH [0.050-0.100] a. turf grasses where the average depth of flow is less than one-half the height of vegetation, b. growing season- bushy willows about 1 year old intergrown with weeds in full foliage along side slopes, or dense growth of cattails along channel bottom with any hydraulic radius up to 10 or 15 feet, c. growing season- trees intergrown with weeds and brush all in full foliage with any value of hydraulic radius up to 10 or 15 feet.

N₅ DEGREE OF MEANDERING

The degree of meandering depends on the ratio of the meander length to the straight length of the channel reach.
MINOR [1.000] for ratios of 1.0 to 1.2.
APPRECIABLE [1.150] for ratios of 1.2 to 1.5.
SEVERE [1.300] for ratios of 1.5 and greater.

NOTE In applying the above method for determining the N value, several things should be noted. The method does not consider the effect of suspended bed loads. The values were developed from a study of 40 to 50 cases of small and moderate channels. Therefore, the method is questionable when applied to large channels whose hydraulic radii exceed 15 feet. The method applies only to unlined natural streams, floodways, drainage channels or ditches that shows a minimum value of 0.02 for the N value of such channels.

N0 is a basic N value for a straight, uniform, smooth channel in the natural materials involved, N1 is a value added to N0 to correct for the effect of surface irregularities, N2 is a value for variations in shape and size of the channel cross section, N3 is a value for obstructions, N4 is a value for vegetation and flow conditions, and M5 is a correction factor for meandering of a channel.

N0 MATERIAL INVOLVED

FINE [0.020]
FINE CUT [0.025]
FINE GRAVEL [0.024]
COARSE GRAVEL [0.028]

N1 DEGREE OF IRREGULARITY

SMOOTH [0.000] for surfaces comparable to the best attainable for the materials involved.
MINOR [0.005] for good dredged channels, slightly eroded or scoured side slopes of canals or drainage channels.
MODERATE [0.010] for fair to poor dredged channels, moderately sloughed or eroded side slopes of canals or drainage channels.
SEVERE [0.020] for badly sloughed banks of natural streams, badly jagged and irregular surfaces of channels excavated in rock.

N2 CHARACTER OF VARIATIONS IN SIZE AND SHAPE OF CROSS SECTION

GRADUAL [0.000] when the change in size or shape occurs gradual.
ALTERNATING OCCASIONALLY [0.005] when large and small sections alternate occasionally or when shape changes cause occasional shifting of main flow from side to side.
ALTERNATING FREQUENTLY [0.010-0.015] when large and small sections alternate frequently or when shape changes cause frequently shifting of main flow from side to side.

N3 RELATIVE EFFECT OF OBSTRUCTIONS

This selection is based on the presence and characteristics of obstructions such as debris deposits, stumps, exposed roots, boulders, and fallen or lodged logs. In judging the relative effect of obstructions, consider the following: the extent to which the obstructions occupy or reduce the average water area, the character of obstructions (sharp-edged or angular objects induce greater turbulence than curved, smooth-surfaced objects), the position and spacing of obstructions transversely and longitudinally in the reach under consideration.

NEGLECTIBLE [0.000]
MINOR [0.010-0.015]
APPRECIABLE [0.020-0.030]
SEVERE [0.040-0.060]

N4 DEGREE OF EFFECT OF VEGETATION

LOW [0.005-0.010] a. dense growths of flexible turf grasses or weeds, of which Bermuda and blue grasses are examples, where the average depth of flow is 2 to 3 times the height of vegetation, b. supple growing tree switches, such as willow, cottonwood, or salt cedar where the average flow is 2 to 3 times the height of the vegetation.
MEDIUM [0.010-0.025] a. turf grasses where the average depth of flow is 1 to 2 times the height of vegetation, b. stemmy grasses, weeds, or tree seedlings with moderate cover where the average depth of flow is 2 to 3 times the height of vegetation, c. brushy growths, moderately dense, similar to willows 1 to 2 years old, dormant season, along side slopes of a channel with no significant vegetation along the channel bottom, where the hydraulic radius is greater than 2 ft.
HIGH [0.025-0.050] a. turf grasses where the average depth of flow is about equal to the height of vegetation, b. dormant season- willow or cottonwood trees 8 to 10 years old, intergrown with some weeds and brush, none of the vegetation in foliage, where the hydraulic radius is greater than 2 foot.
c. growing season- brushy willows about 1 year old intergrown with weeds in full foliage along side slopes, no significant vegetation along channel bottom, where hydraulic radius is greater than 2 foot.

VERY HIGH [0.050-0.100] a. turf grasses where the average depth of flow is less than one-half the height of vegetation, b. growing season- bushy willows about 1 year old intergrown with weeds in full foliage along side slopes, or dense growth of cattails along channel bottom with any hydraulic radius up to 10 or 15 feet, c. growing season- trees intergrown with weeds and brush all in full foliage with any value of hydraulic radius up to 10 or 15 feet.

N5 DEGREE OF MEANDERING

the degree of meandering depends on the ratio of the meander length to the straight length of the channel reach.

MINOR [1.000] for ratios of 1.0 to 1.2.
APPRECIABLE [1.150] for ratios of 1.2 to 1.5.
SEVERE [1.300] for ratios of 1.5 and greater.

NOTE In applying the above method for determining the N value, several things should be noted. The method does not consider the effect of suspended bed loads. The values were developed from a study of 40 to 50 cases of small and moderate channels. Therefore, the method is questionable when applied to large channels whose hydraulic radii exceed 15 feet. The method applies only to unlined natural streams, floodways, drainage channels or ditches that shows a minimum value of 0.02 for the N value of such channels.

FIELD SLOPE MEASUREMENT FORM FOR EXCESSIVE FLOW DATA

forma.slope.field



FIELD AGENT: _____

FX DATE: _____

CLAIM NUMBER(S): _____

FIELD NUMBER: _____
(Optional)

LOCATION: _____

FIELD READINGS

SLOPE DATA:

	<u>UPHILL</u>		<u>DOWNHILL</u>	
UPPER STADIA	_____		_____	
MIDDLE (SLOPE)	_____		_____	
LOWER STADIA	_____		_____	
Stadia Difference:	<u> </u> UPHILL	+	<u> </u> DOWNHILL	X 100 = SLOPE LENGTH
Slope Difference:	<u> </u> DOWNHILL	-	<u> </u> UPHILL	= FT DIST

NOTE: The downhill reading must be higher than the uphill reading.

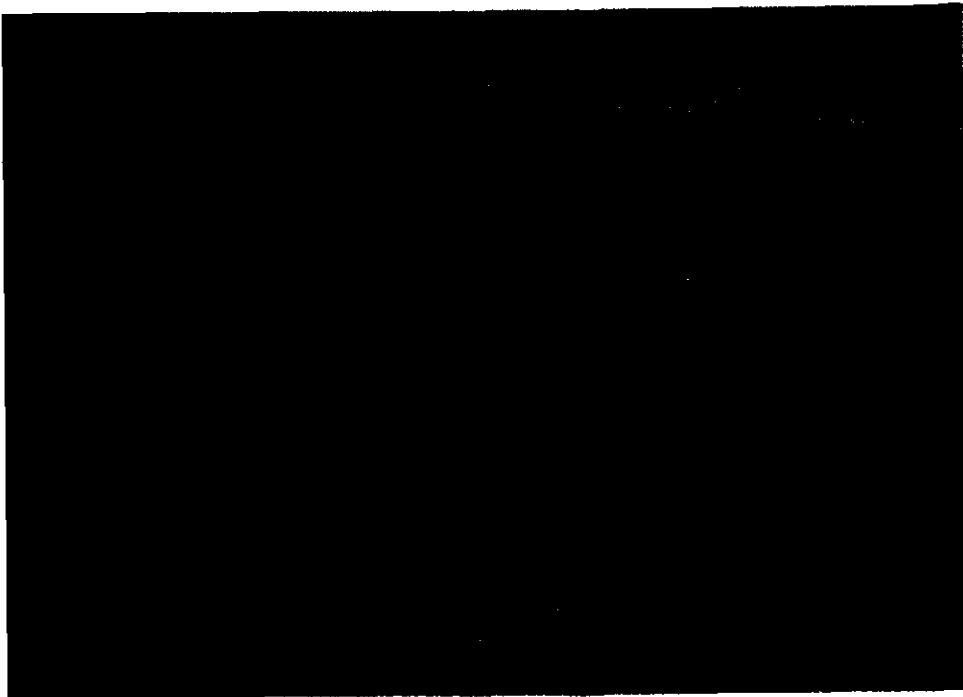
CALCULATIONS:

	/		=	
FT DIST		SLOPE LENGTH		SLOPE FT/FT



PHOTOGRAPHER AND DATE OF PHOTOS DAN 9-12-00

FILE NO. 103 - ~~00~~ 07866



This is the ~~B~~ Place of use
FOR this permit



PHOTOGRAPHER AND DATE OF PHOTOS DAN NELSON 9-12-00

FILE NO. 63 - 7866



PHOTO'S OF THE OLD PIP FOR THE
CHINAMAN'S DITCH FROM THE MIDDLE FORK
OF THE BOISE RIVER.



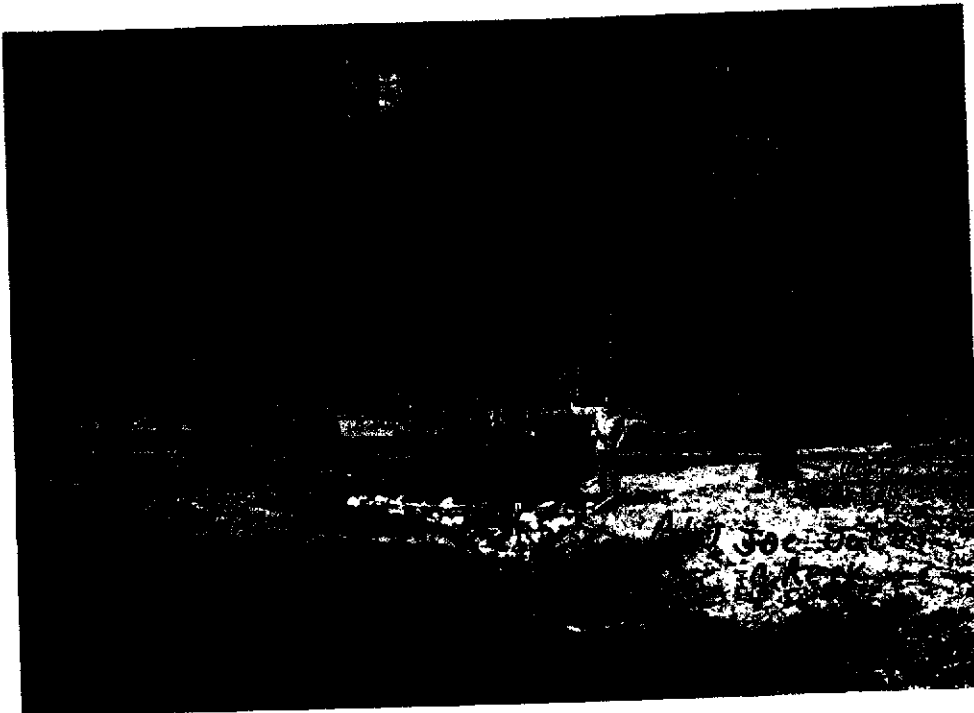


PHOTOGRAPHER AND DATE OF PHOTOS DAN NELSON 9-12-00

FILE NO. 63-07866



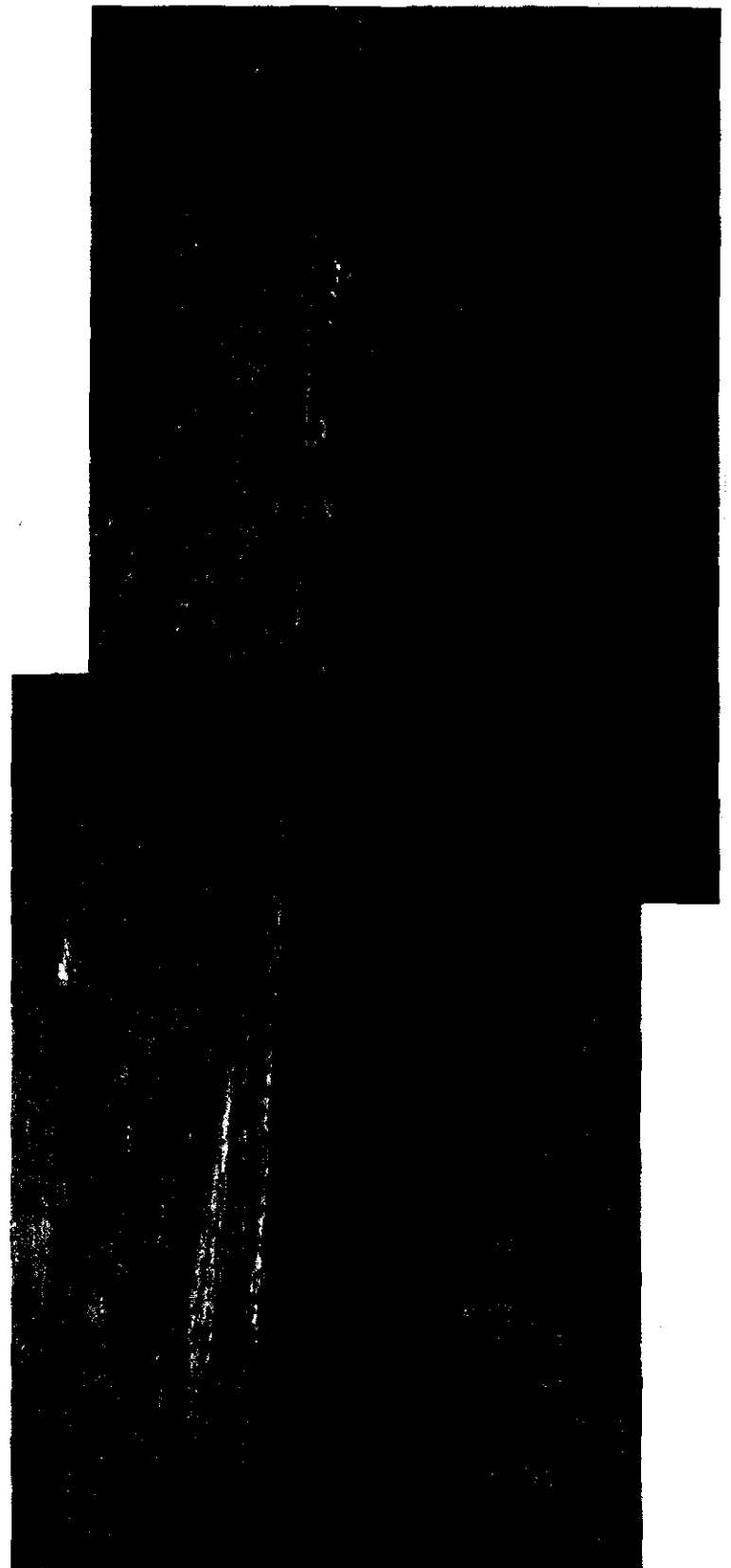
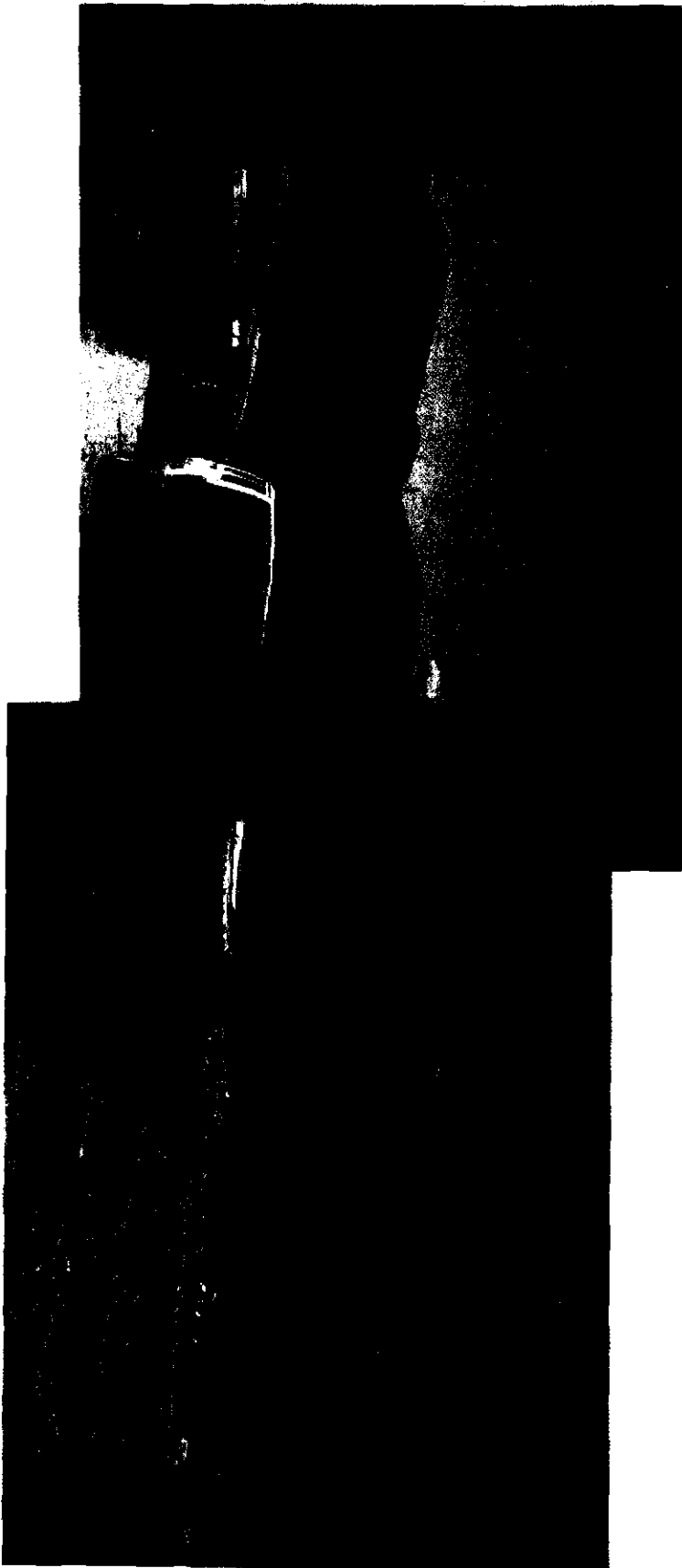
These are
photo's
of the
PID at
Joe Daley
Creek and
the Pump
House
for the
lawn
around
the Lodge.





PHOTOGRAPHER AND DATE OF PHOTOS DAN NELSON 9-12-00.

FILE NO. 63-07866



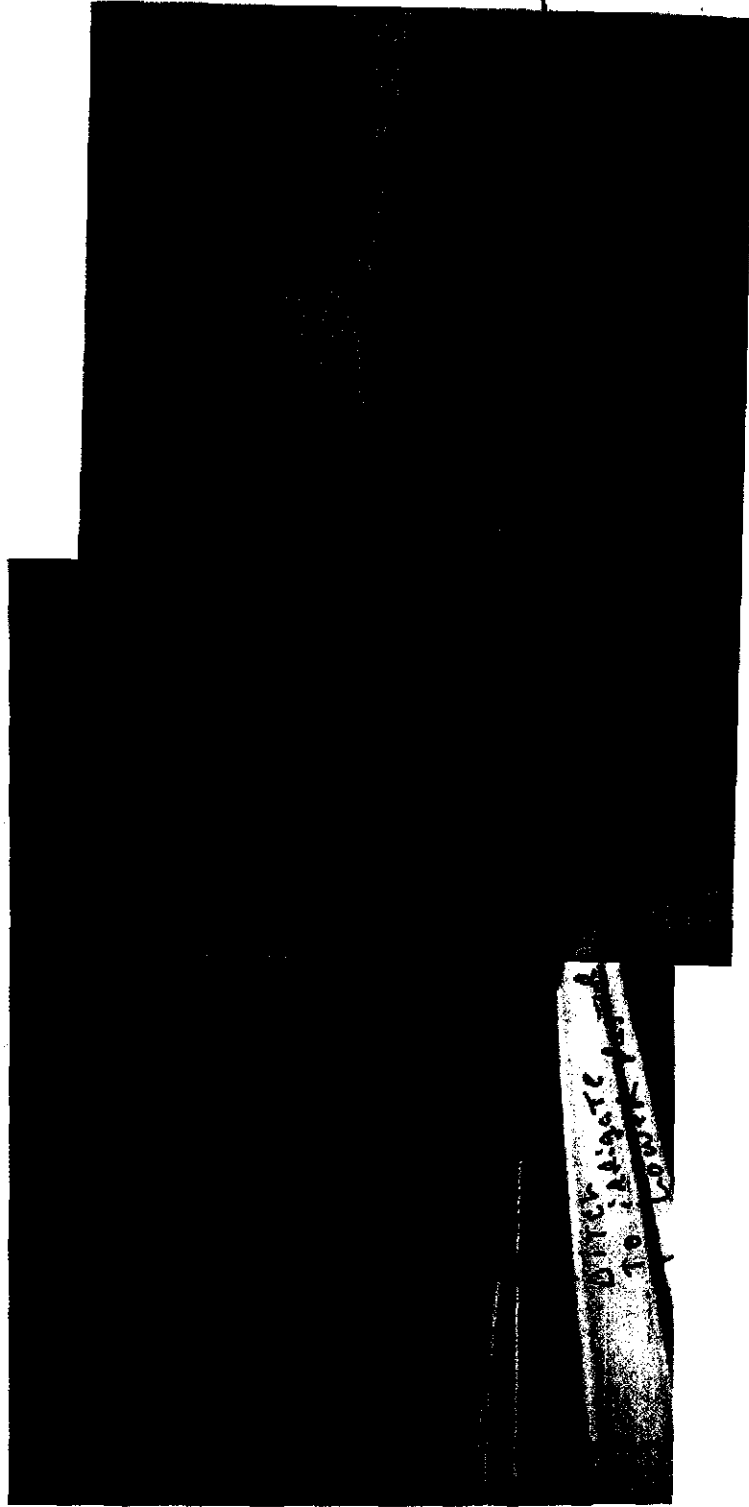


PHOTOGRAPHER AND DATE OF PHOTOS

AAN Nelson 9-13-00

FILE NO. AND LEGAL DESCR.

63- 07866



POSD

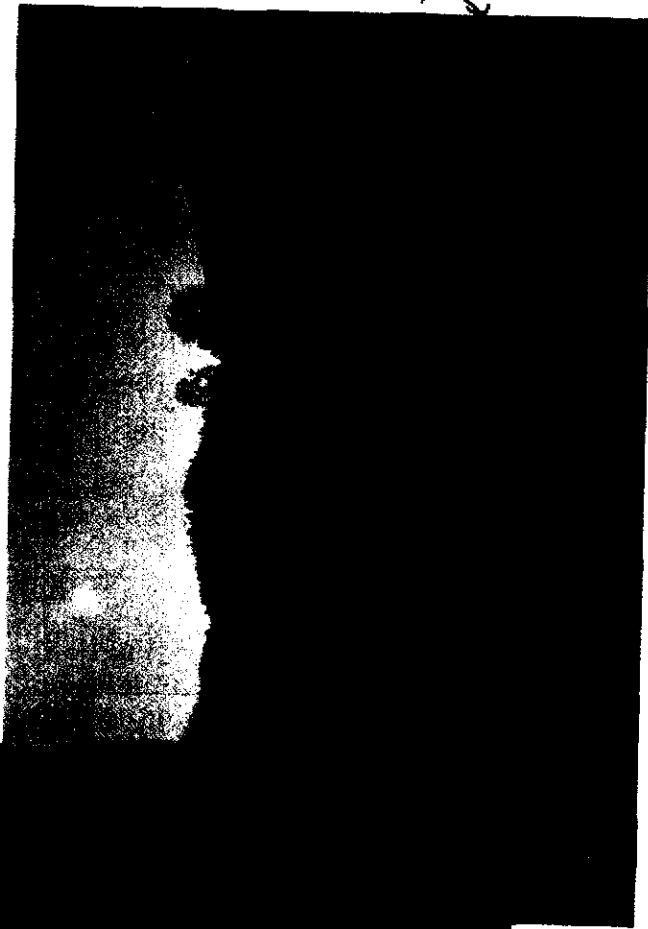
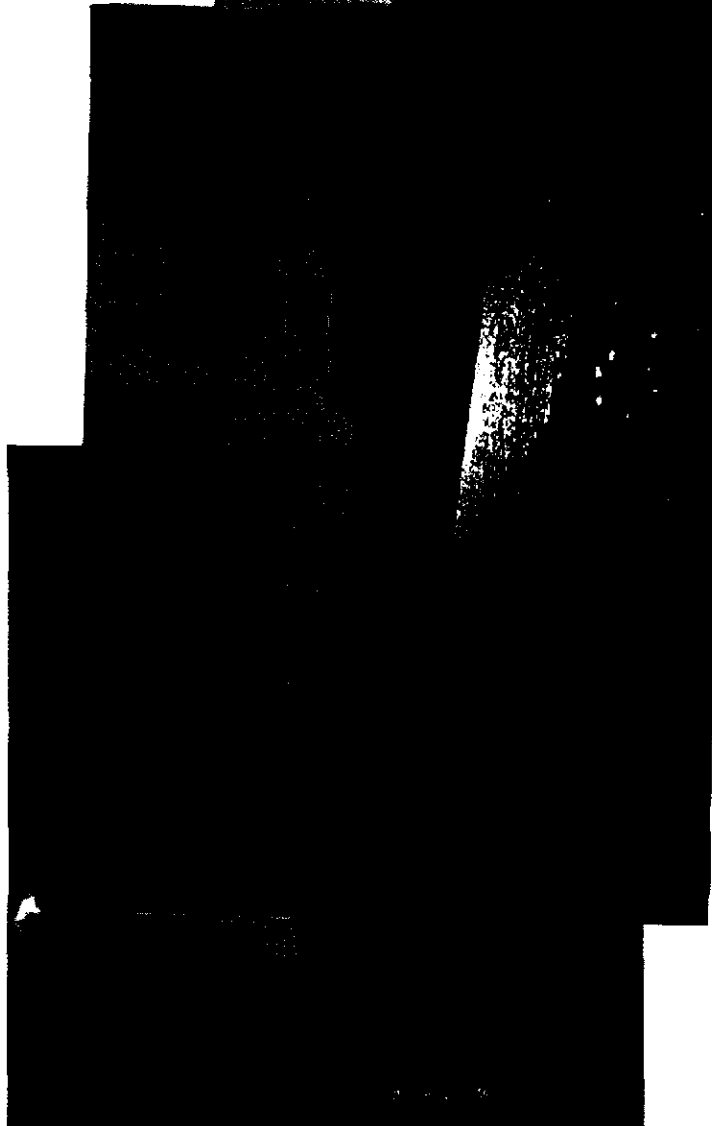
DO NOT
TO: INQUIRE
LOWER

PLACE OF USE FOR PERMIT.



PHOTOGRAPHER AND DATE OF PHOTOS DAN NELSON 9-12-00

FILE NO. AND LEGAL DESCR. 63-07866



GRAY ROCK CREW P/D

PHOTO OF POND

63-7866

LODGE
↓

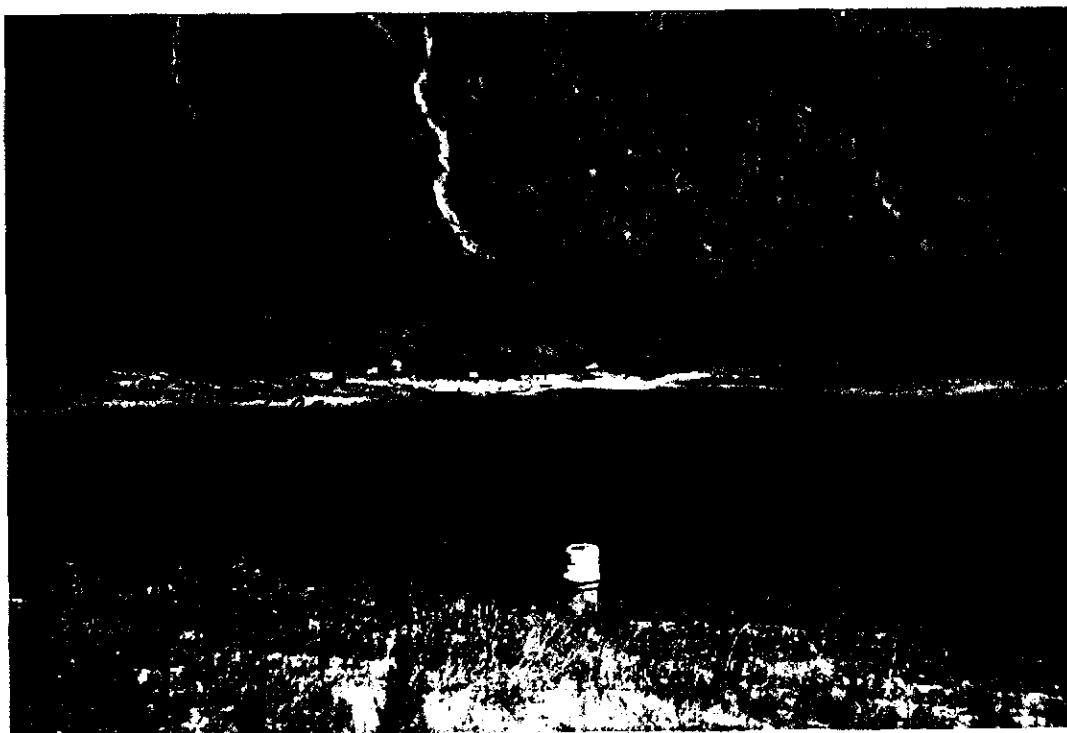
← LODGE

← GRAY LOCK
CREEK
PID

→
overflow
DIVERSION
CHANNEL



View SSW toward ATLANTA from Point of Diversion.



View NNE toward
POINT of DIVERSION.

↑
overflow to field
AND Pond NEAR LODGE.

63-7866



DIVERSION VALVE AT BASE OF DAM.
CONTROL LEVER MAY DIVERT WATER TO HAY/PASTURE FIELD BELOW OR
TO POND IN FRONT OF LODGE.



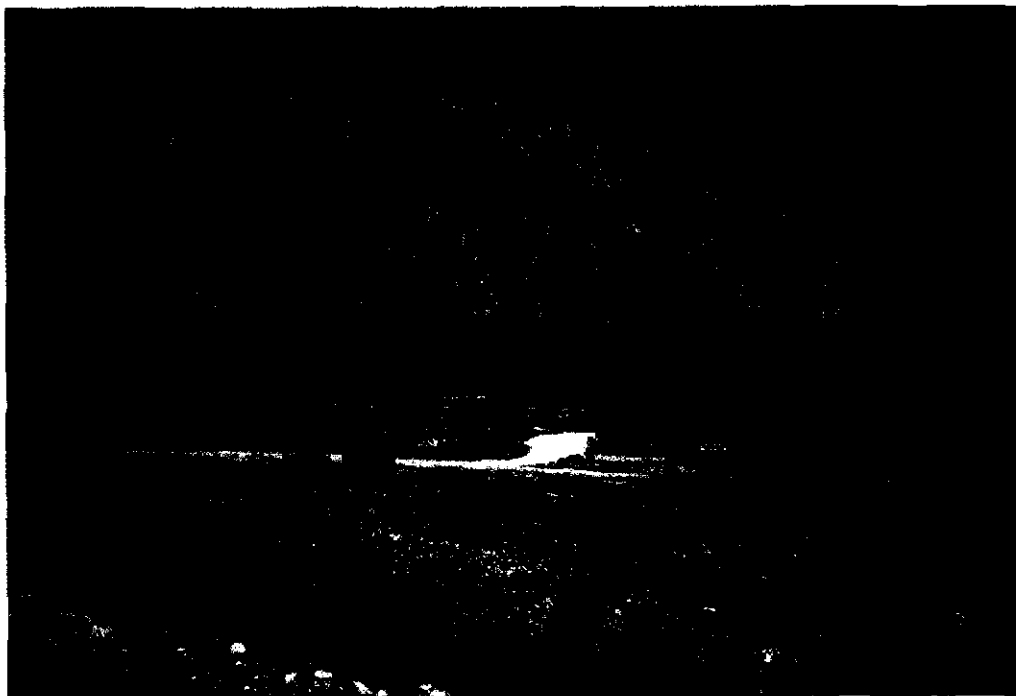
Riser AT edge of PASTURE.
FIELD IS FLOOD IRRIGATED IF NECESSARY.
WORK ON Riser CONTROL VALVE WAS REASON FOR
EXCAVATION.

63-7866



Brown
IRRIGATION
← Pump
House

↑
OUTLET TO POND IN FRONT of LODGE



GENERAL AREA PHOTO FOR PLACE of Use.

63-7866



LOOKING NE AT STMAAC RESERVOIR.
OUTLET CONTROL PIPE

6/17/87



State of Idaho

DEPARTMENT OF WATER RESOURCES

Western Region, 2735 Airport Way, Boise, Idaho 83705-5082 - (208) 334-2190

FAX (208) 334-2348

9/27/2000

DIRK KEMPTHORNE
GOVERNOR

KARL J. DREHER
DIRECTOR

GREENE TREE INC.
ATTN JIM BIVENS
PO BOX 114
ATLANTA ID 83601

COPY COPY

RE: BENEFICIAL USE EXAM PERFORMED FOR 63-07866

Dear Mr. Bivens:

I have completed the field report for permit number 63-07866. This permit provided irrigation from Joe Daley Creek and storage for the main pond. I have recommended irrigation from Joe Daley Creek at .48 cfs, which was the amount applied for under the permit. I also recommended diversion to storage from Greylock Creek of .30 cfs, which is the amount we measured the day of our exam. Diversion to storage was not on your original permit, but is a necessary component for your storage right. I also recommended irrigation storage and irrigation from storage on the main pond at 95-acre feet of storage. This recommendation was below the 98-acre feet requested on the application, because our Dam Safety staff measured the capacity of the reservoir at 95-acre feet.

During my research on this permit I did discover a few discrepancies in how you use your water compared to the water rights on file. You may want to bring this to the attention of the owners so you can hopefully get all of your water uses recorded properly. The following are the discrepancies that I have found:

The Chinamen's Ditch only shows the Boise River as its source of water under water right 63-03609. The Chinamen's Ditch right should also include Snowslide Creek as a source since it has collected this water since the ditch was constructed. You have added Snowslide Creek to your Snake River Basin Adjudication (SRBA) claim 63-02532. You should probably amend 63-03609 to add Snowslide Creek to this SRBA claim and remove Snowslide Creek from SRBA claim 63-02532.

page 2

Greene Tree Inc.

I also could not find any water rights for the lower pond and the springs that supply water to this pond. In order to irrigate from the pond and springs or store water in the lower pond you need a valid water right. Currently, we are not processing new water rights in your area because it has been determined that the Boise River is fully allocated. The only way that we can process a water right for the spring use is if you can prove that the irrigation from the springs and the storage in the pond was done prior to 1987. In reviewing the water rights for the farm, I did find a lapsed permit for the pond for power consumption. If you can prove that you used this pond and springs for irrigation while waiting for approval of this lapsed permit you may have a chance of attaining a water right for the springs and lower pond by claiming they were developed prior to 1987. Our office can still process applications that were developed prior to 1987.

Our office has not received any complaints regarding the pond at this time, and will not pursue any regulation on the lower pond or spring until a complaint has been filed. This should give you the opportunity to find a way to attain the proper licenses for the lower pond and springs. If you need any assistance please contact me at the above address and I will assist you in any way that I can.

Respectfully,

A handwritten signature in black ink, appearing to read "Daniel A. Nelson", with a stylized, flowing script.

Daniel A. Nelson
Sr. Water Right Agent

GREENE TREE INC. WATER RIGHT REVIEW

Water Right Number	Water Right Filed	Adjudication Claim Needed	Adjudication Claim Filed
63-3609	YES	YES	YES
✓ 63-7891	YES	YES	YES
✓ 63-2532	YES	YES	YES
✓ 63-9683	YES	YES	YES
✓ 63-9684	YES	YES	YES
63-2539	YES	YES	
H. F. COORS vs. TALACHED MINES, INCORPORATED	NO	YES	