

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
IN-OFFICE REVIEW/BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATIONPermit No: 75-7477

Exam Date: 07/15/13

1. Does this qualify for an in-office field exam (IDAPA 035.02.r)? X Y N

a. Irrigation of 5 acres or less

b. Storage of up to 14.6 AF for stockwater purposes only

c. Any use other than irrigation or storage, if the combined diversion rate is 0.24 cfs or less

d. Other < >

2. Current Owner: Name: Paul Edstrom

Owner of Record Correct? X Y N

Address of Record Correct? Y N X Unknown

If No: Address

Taxlot Address: 3 WHITE ASS WAY NORTH FORK, ID 83466

3. Beneficial Use Fees have been paid: X Y N Receipt No: Pre 11/1991 for 0.04 cfs, fee exempt.

4. SOURCE**TRIBUTARY**

Sheep Creek

North Fork Salmon River

Method of Determination: Information provided with the claim and information in surrounding rights files.

Change in Source: Y X N

B. OVERLAP REVIEW

1. Other water rights with the same place of use: X NO Overlap

Water Right No.	Source	Purpose of Use	Basis

75-10005 – Domestic right for same taxlots as POU RP25N21E150025 & RP25N21E143011

75-2006A, 75-10271, 75-10269 are for adjacent taxlots RP25N21E151802, RP25N21E150009, RP25N21E151805 & RP25N21E151804

75-10268 is for taxlot RP25N21E150018, 75-10128 is a domestic right for unknown taxlot. , 75-14370 is for taxlot RP002000000080, 75-14632 is for taxlots RP002000000090 and RP002000000100

2. Other water rights with the same point of diversion: NO Overlap

Water Right No.	Source	Purpose of Use	Div. Rate	Basis
75-10957	SHEEP CREEK	Fish Prop./Fish Screen	0.8	DECREED
75-2006A	SHEEP CREEK	IRRIGATION	0.16	DECREED
75-4298A	SHEEP CREEK	IRRIGATION	0.06	DECREED
75-13700	SHEEP CREEK	IRRIGATION	0.22	DECREED
75-14274	SHEEP CREEK	IRRIGATION	0.16	DECREED
75-14367	SHEEP CREEK	IRRIGATION	0.45	DECREED
75-14370	SHEEP CREEK	IRRIGATION	0.18	DECREED
75-14492	SHEEP CREEK	IRRIGATION	0.3	DECREED
75-14493	SHEEP CREEK	IRRIGATION	0.04	DECREED
75-14632	SHEEP CREEK	IRRIGATION	0.16	DECREED
75-14633	SHEEP CREEK	IRRIGATION	0.1	DECREED
75-14684	SHEEP CREEK	IRRIGATION	0.33	DECREED
75-14685	SHEEP CREEK	IRRIGATION	0.17	DECREED

This Right is diverted out of the ditch from DiversionName SC-1 with Tag of A0014921. 75-14367, 75-14370, & 75-14632 are not in POD overlap query because QQ is in NENW instead of SENW in error.

75-14684 & 75-685 have multiple PODs.

75-7572 is in Lot 45 of North Salmon Estates East of POD for 75-7477. 75-4166 was disallowed as unclaimed in the SRBA.

C. DIVERSION AND DELIVERY SYSTEM**1. LOCATION OF POINT(S) OF DIVERSION:**

Source	Govt. Lot	¼	¼	¼	Sec.	Twp.	Rge.		County
Sheep Creek			SE	NW	14	25N	21E	B.M.	Lemhi
								B.M.	

Method of Determination: Out of same ditch as several adjacent taxlots.

Change in POD? ☐ X ☐ N Amendment Required? ☐ X ☐ N**2. PLACE OF USE:** Use: Irrigation and Domestic

TWP	RGE	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
25N	21E	15				2													2
		Lot #																	
Total Acres =																			2

Method of Determination: Taxlot data and GIS Imagery.

Change in POU? ☐ X ☐ N Amendment Required? ☐ X ☐ N☐ Delivery System Diagram Attached (required). Indicate all major components and distances between components.

Indicate weir size/pipe as applicable.

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

*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

2. Measurements: < _____ >

E. FLOW CALCULATIONS☐ Additional Computation Sheets Attached

Measured Method:

Irrigation:

0.02 cfs = 1 inch per acre (IDWR standard) 2 acres(0.02 cfs) = 0.04 cfs at 1 inch per acre

Per App. Processing Memo #17, up to 0.03 cfs/acre for irrigation up to 5 acres acceptable. 2 acres(0.03 cfs) = 0.06 cfs

Capacity:

Ditch Capacity estimated using data from 75-10957. Based on Fish Screen Data in 75-10957, Ditch is 1 ft. deep and 3 ft. wide. Ditch is believed to be rectangular because rectangular fish screen was used. Looking at topo. contour data and GIS straight-line measure from POD to POU, Rise = 20 ft. and Run = 2000 feet for a slope of 1%.

Measurement = Ditch Capacity estimated at 12.7 cfs. See attached Mannings Calculation. Total diversion from ditch with permit 75-7477 minus fish screen is 2.8 cfs.

Permit allowed = 0.04 cfs

License recommend for 0.04 cfs Irrigation

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 2.0 \times 3.5 = 7.0$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.02 \times 214 \times 1.9835 = 8.49$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 7.0$$

2. Volume Calculations for Other Uses:

G. PURPOSE OF USE

Irrigation ☒ X ☐ Y ☐ N # Stock _____ Domestic # of Homes _____

Other: < >

Change in Purpose of Use? ☐ Y ☒ X ☐ N

Method of Determination: Home and field on GIS Imagery.

If Yes: From Use _____ To Use _____ Amount _____ CFS _____ AFA _____

H. NARRATIVE/REMARKS/COMMENTS

- In Wild and Scenic Watershed: Salmon River Excluding Middle Fork
- No measurement conditions on permit.
- Adjusted Season of Use to Current Standards.
- POD on USFS ground.
- Fish Screen Requirement – Ditch itself has IDFG fish screen. 75-10957
- Headgate Rew. = 3.5, Consumptive Use = 2.5.

Have conditions of permit approval been met? ☒ X Yes ☐ No

I. RECOMMENDATIONS

1. Recommended Amounts

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
Irrigation	04/01 to 10/31	0.04 CFS	7.0 AF
<u>Totals:</u>		0.04 CFS	7.0 AF

2. Recommended Amendments

☐ Change P.D. as reflected above ☐ Add P.D. as reflected above ☒ X None

☐ Change P.U. as reflected above ☐ Add P.U. as reflected above ☒ X None

Other: < >

J. AUTHENTICATION

Field Examiner's Name Danielle Tanner Date 06-17-13

Reviewer Daniel A. Nelson Date 7-18-13

Manning's Equation Calculator for Flow Rate in Any Open Channel

S = 0.0100 ft/ft

n = 0.025 manning's coefficient

A = 3.00 area (ft²)

WP = 5.00 wetted perimeter (ft)

R = 0.60 hydraulic radius (ft)

Q = 12.70 flow rate (CFS)

Channel Slope

Slope Options

☐ Manual Entry ☒ Slope Calculator

Slope Calculator

Rise = 20 feet

Run = 2000 feet

Slope, S = 0.0100 ft/ft

Channel Material, (n):

natural channel, good condition

READ ME

Manning's Equation (1), is velocity (v) in a open channel equation (2) when combining computation of the flow rate flow.

In equations (1) and (3), n Roughness and can be for channel types. R is the hydraulic radius equal to the area of the open channel divided by the wetted perimeter, R = A/P. S is the slope often assumed to be equal

Because Manning's Equation To obtain a velocity in ft/s : reported in ft², hydraulic radius be reported in ft/ft. Mannir unitless constant.

$$(1) \quad v = 1.49 \left(\frac{1}{n} \right) R^{2/3} S^{1/2}$$

$$(2) \quad Q = vA$$

$$(3) \quad Q = 1.49 \left(\frac{1}{n} \right) R^{2/3} S^{1/2} A$$

Manning's Equation Calculator for Flow Rate in Any Open Channel

[READ ME](#)

S = 0.0100 ft/ft

n = 0.025 manning's coefficient

A = 3.00 area (ft²)

WP = 5.00 wetted perimeter (ft)

R = 0.60 hydraulic radius (ft)

Q = 12.70 flow rate (CFS)

Channel Slope

Slope Options

☐ Manual Entry ☒ Slope Calculator

Slope Calculator

Rise = 1 feet

Run = 100 feet

Slope, S = 0.0100 ft/ft

Channel Material, (n):
natural channel, good condition

**Wetted Perimeter and X-Sectional Flow Calculator for
Flow Rate in a Circular, Rectangular, V-Notch, or Trapezoidal Open Channel**

[READ ME](#)

Select Channel Type from Pull Down Menu

Rectangular

Input Parameters

Depth = 1.00 feet (depth of the flow of water)

Bottom Width = 3.00 feet (width of rectangular channel)

Input Parameter 3 = 3.00 Not Used

Input Parameter 4 = Not Used

Cross Sectional Area of Flow

A = 3.00 square feet

Wetted Perimeter

WP = 5.00 feet

Channel Type Sketch



75-10957

C.P. 1962

SC-1 CWG 3'x20' LH

Top Wall = 99.40

Top Footing = 95.36

Bot Footing = 94.69

By Pass Pipe

6" x 60'

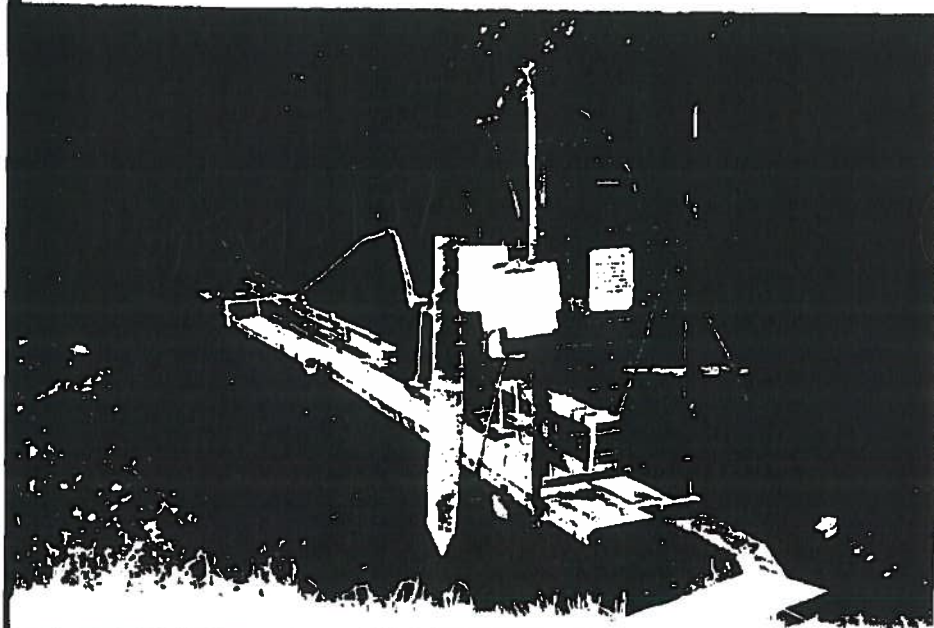
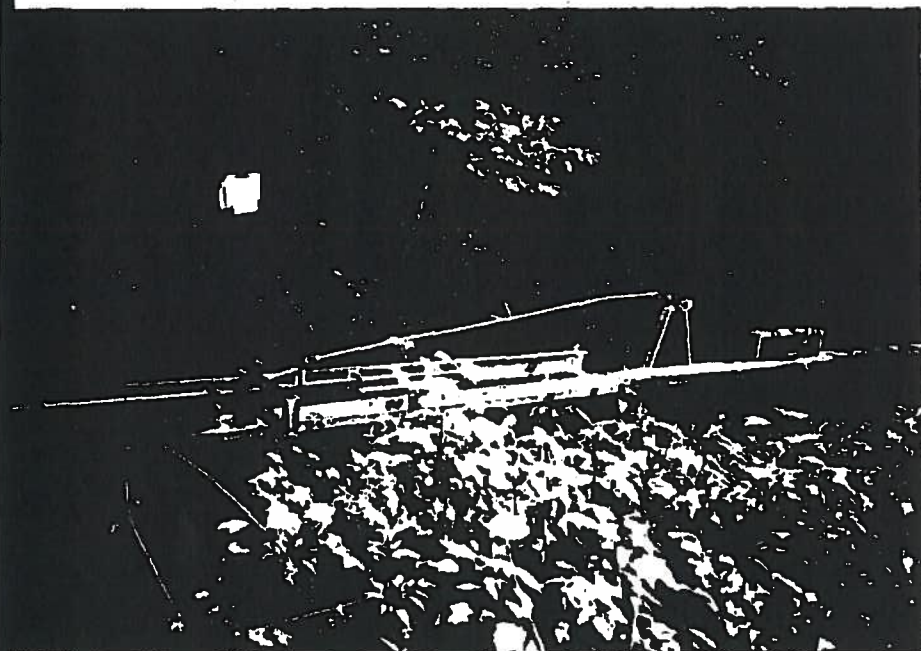
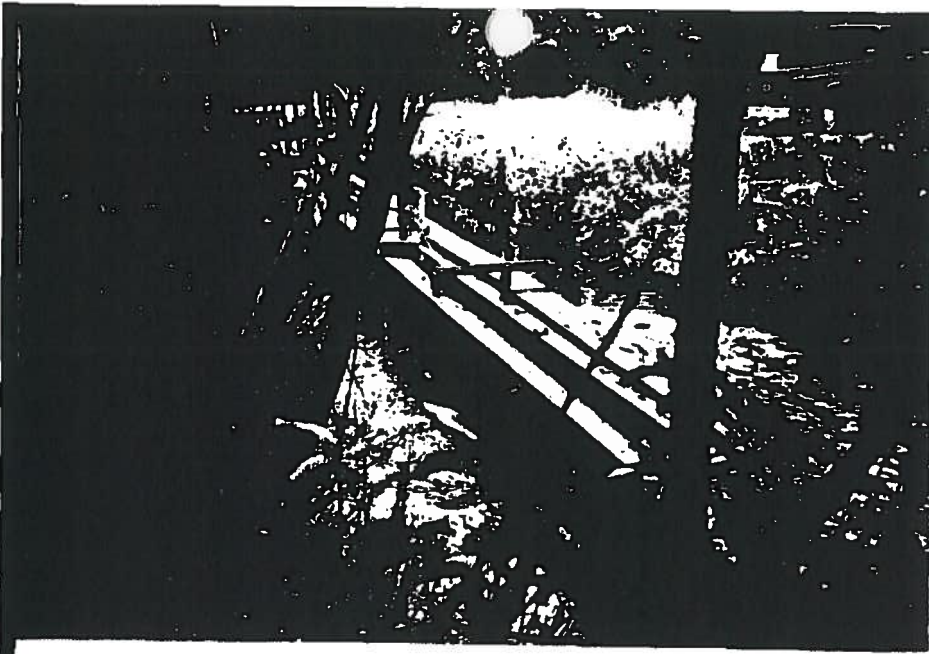
Access Road

1 mile / 1000'

75-10957

MICROFILMED

DEC 15 1992



Built 1962

SCREEN 1 NFSC 1

APPROACHMENT DITCH SIZE 1' X 8' 10"

USE Dr Yes

TYPE OF SCREEN Wiper Water Wheel

SIZE OF SCREEN 3' X 16'

MODIFIED Yes

STRUCTURE Low Fair-Poor

CATWALKS Fair

HANDRAILS None

BYPASS SIZE 6"

HOW REDUCED 4"

APPROX. LENGTH 30 ft

TRASH RACK None

CONDITION OF ROAD Rough

CONDITION OF GATES

ADDITIONAL COMMENTS

SCHEDULED REPLACEMENT

1994 - 1998

A75-10957

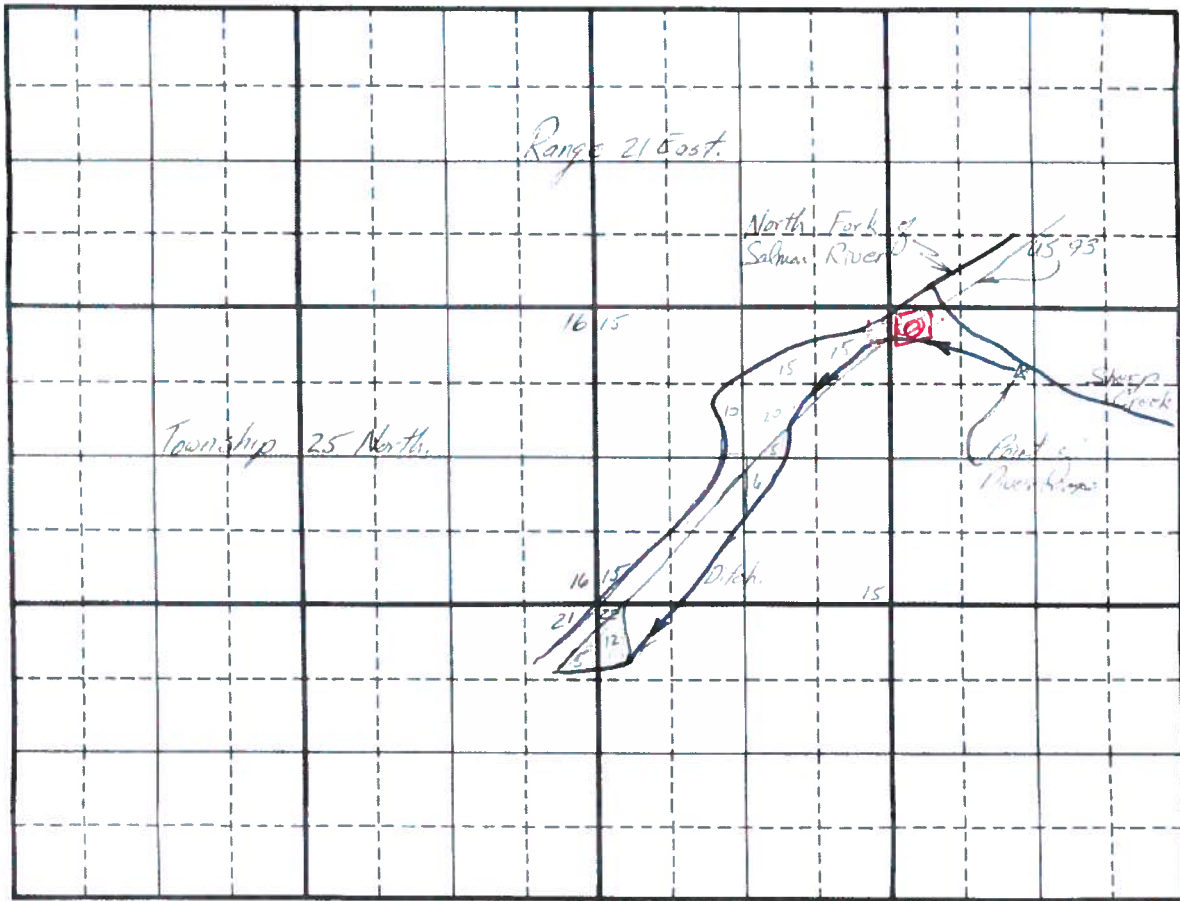
MICROFILMED

DEC 15 1992

Process	Basin Sequence	Draft	Owner	Source	POD/ POU	NENE	NWNE	SWNE	SENE	NENW	NWNW	SWNW	SENW	NESW	NWSW	SWSW	SESW	NESE	NWSE	SWSE	SESE	Total Acres	Transfer Table	Transfer Row ID
Water Right	75-10005	N	EDSTROM, PAUL A	GROUND WATER	POU				X													0		
Water Right	75-10128	N	FERRELL, JARED F; FERRELL, MIRIAM F	GROUND WATER	POU				X													0		
Water Right	75-10130	N	FERRELL, JARED F; FERRELL, MIRIAM F	GROUND WATER	POU													X				0		
Adjudication Recommendation	75-10130		HULL, DARYL; HULL, PATRICIA	GROUND WATER	POU									X								0		
Water Right	75-10268	N	SYCZYLO, JOSEPH J	GROUND WATER	POU				X													0		
Water Right	75-10269	N	MOORE, GARY	GROUND WATER	POU				2.0													2		
Water Right	75-10269	N	MOORE, GARY	GROUND WATER	POU				X													0		
Water Right	75-10271	N	MOORE, GARY	SPRINGS	POU				12.0													12		
Water Right	75-10271	N	MOORE, GARY	SPRINGS	POU				X													0		
Water Right	75-10485	N	AWVE, DIANE; AWVE, JOHN	GROUND WATER	POU			X														0		
Water Right	75-10547	N	MURPHY, PATRICK	GROUND WATER	POU									X								0		
Water Right	75-10596	N	DARRAH, HELEN A; DARRAH, ROY L	GROUND WATER	POU	X																0		
Water Right	75-10906	N	MURPHY, PATRICK	SALMON RIVER	POU											3.2	2.8					6		
Water Right	75-11608	N	STATE OF IDAHO	SALMON RIVER	POU														X			0		
Water Right	75-13700	N	BENEDICT, COLLEEN; BENEDICT, RALPH; PROKSCH, HALLIE H; PROKSCH, JOSEPH A	SHEEP CREEK	POU														9.0	0.6		9.6		
Water Right	75-13700	N	BENEDICT, COLLEEN; BENEDICT, RALPH; PROKSCH, HALLIE H; PROKSCH, JOSEPH A	SHEEP CREEK	POU														X	X		0		
Water Right	75-14140	N	HUTTON, MARK G; RILEY, MICHAEL E	SALMON RIVER	POU									5.8			5.3		1.4			12.5		
Water Right	75-14274	N	BARNES, BRUCE D; CASPER, ANN M	SHEEP CREEK	POU											2.3						2.3		
Water Right	75-14367	N	FERRELL, JARED F; FERRELL, MIRIAM F	SHEEP CREEK	POU			8.2											7.1			15.3		
Water Right	75-14370	N	COOK, CARY G; COOK, MERRILEE	SHEEP CREEK	POU	0.5			1.8													2.3		
Water Right	75-14449	N	UNITED STATES OF AMERICA ACTING THROUGH	SHEEP CREEK	POU												X					0		
Water Permit	75-14527	N	LANGE, DARLENE K; LANGE, RANDALL A	SHEEP CREEK	POU				0.5													0.5		
Water Right	75-14605	N	UNITED STATES OF AMERICA ACTING THROUGH	SHEEP CREEK	POU											6.1			0.4	1.3		7.8		
Water Right	75-14632	N	CERISE, LOWELL	SHEEP CREEK	POU			2.4	1.7													4.1		
Water Right	75-14633	N	SPRINK, NATALIE; SPRINK, TIMOTHY	SHEEP CREEK	POU			2.7														2.7		
Water Right	75-2006A	N	MOORE, GARY	SHEEP CREEK	POU				12.0									0.1				12.1		
Water Right	75-4077	N	KEITH, BETTY L; KEITH, THEODORE F	SALMON RIVER	POU					9.0												9		
Water Right	75-4166	N	USDA FOREST SERVICE BOISE NATIONAL FOREST	SHEEP CREEK	POU											9.0			1.0	2.0		12		
Water Right	75-4298A	N	DARRAH, HELEN A; DARRAH, ROY L	SHEEP CREEK	POU	2.0																2		
Water Permit	75-7477	N	EDSTROM, PAUL	SHEEP CREEK	POU				2.0													2		
Water Right	75-7526	N	WARD, MERLE G	SHEEP CREEK	POU	4.8																4.8		

[illegible]

(8) Remarks Land currently owned by Harold Hanson, Neptune A. Lynch,
Joe Frazier and Roy Darrah, all married men.



Scale: 2 inches equal 1 mile.

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

State of Idaho)
County of Lemhi) ss.

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

Sworn to before me this 30th day of June

Harold A. Hanson
(Claimant)

Fredrick Hughes Smith
Notary Public
Residing at Salmon

My commission expires life

Received by CW Date 6-14-82 Exception filed by: _____ Date _____
Prelim. check by HWJ Date 6-14-82
\$20.00 fee received by CW Date 6-25-82 #22338
Published in Recorder/Herald
Dates 7-8-82 7-15-82

7-8-82 FOR DEPARTMENT USE ONLY

75-4298
claim file

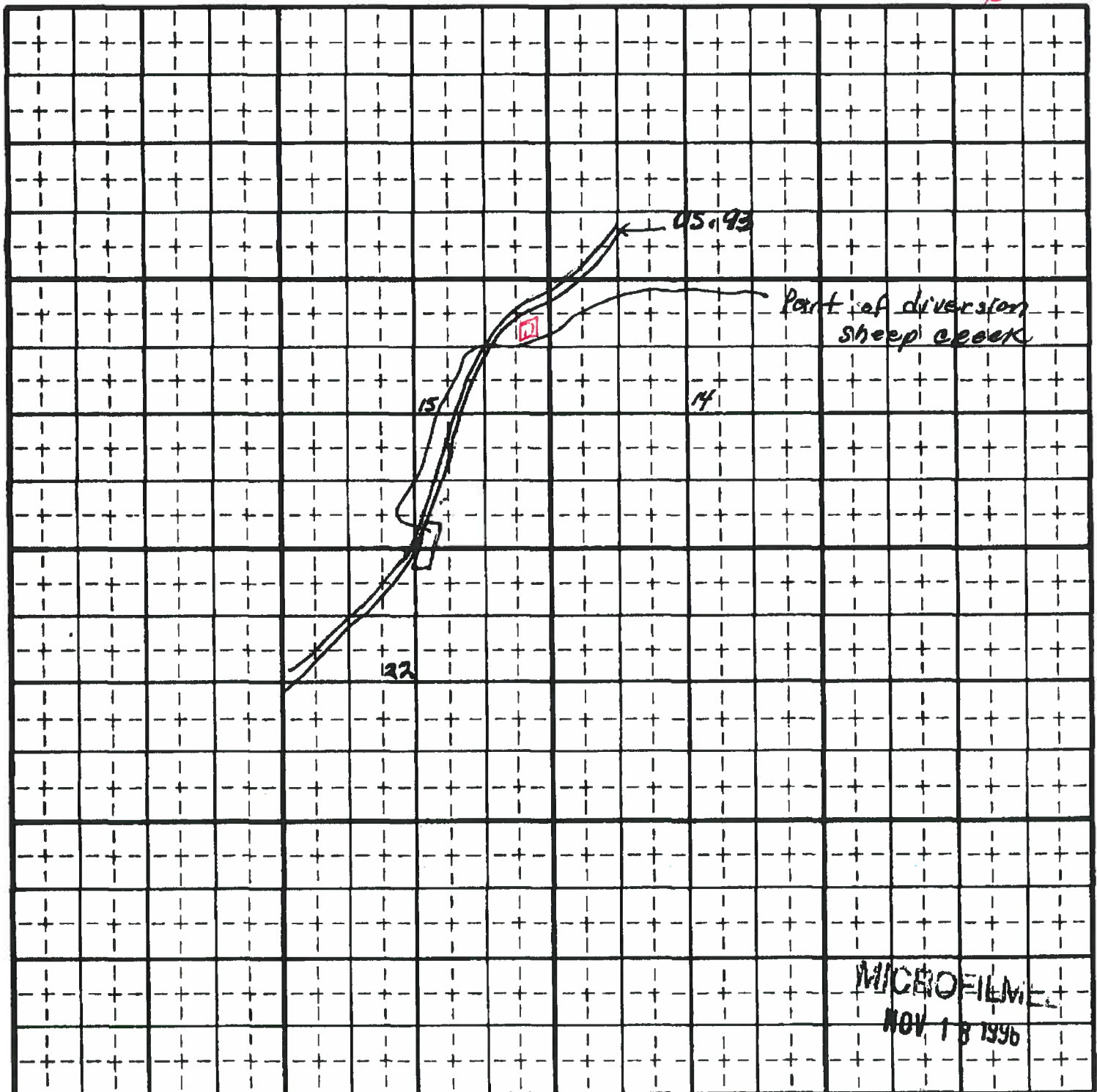
claim
75-13700

COPY

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

Scale: 2 inches equals 1 mile

Q Approx loc POB
75-7477



Last Name _____ Ident No. _____

Copies: White-State, Yellow-Claimant