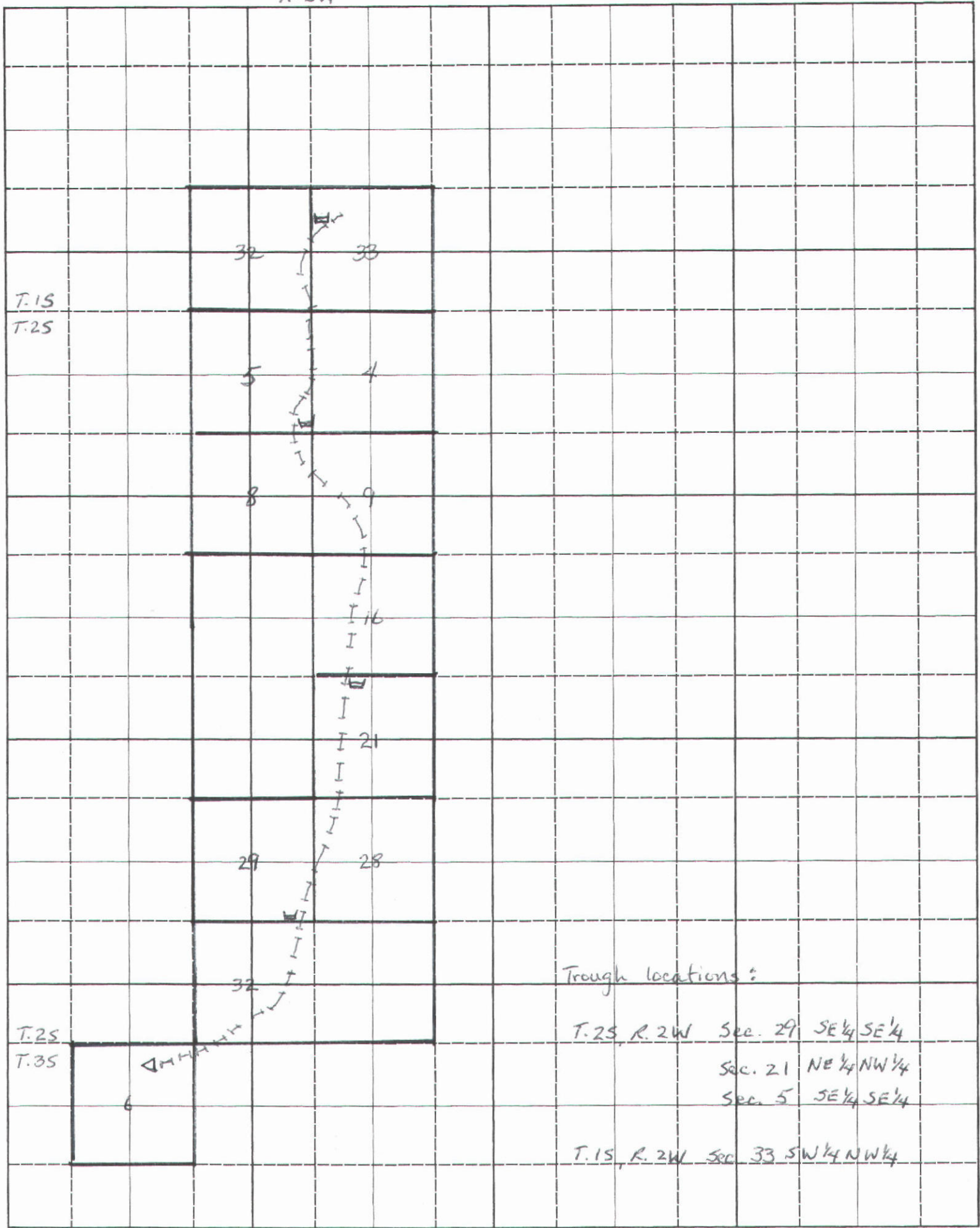


11. Map of proposed project: show clearly the proposed point of diversion, place of use, section number, township and range number.

R. 2W



Scale: 2 inches equal 1 mile.

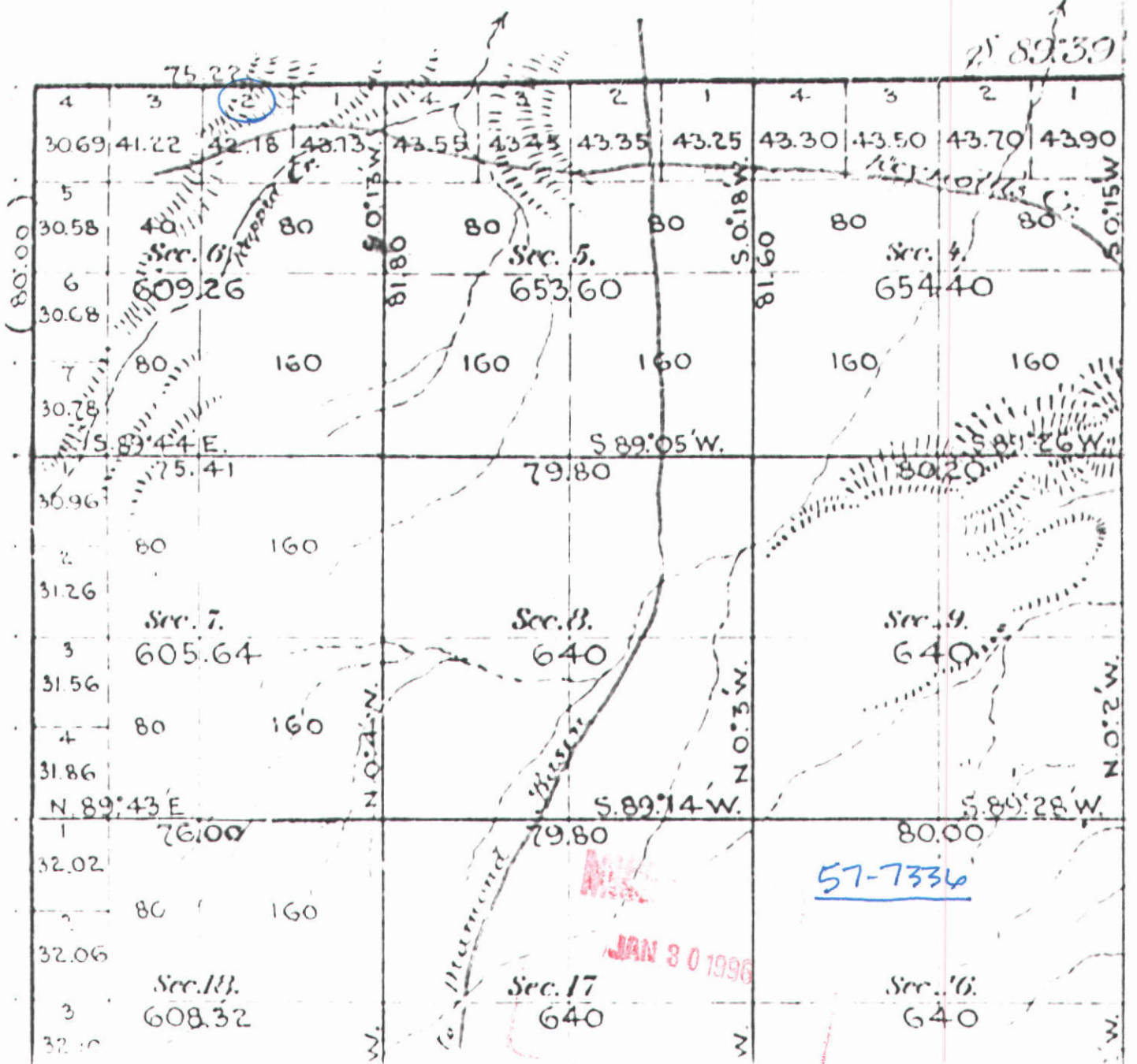
BE IT KNOWN that the undersigned hereby makes application for permit to appropriate the public waters of the State of Idaho as herein set forth.

Oscar Anderson
(Applicant)
OWYHEE AREA MGR.

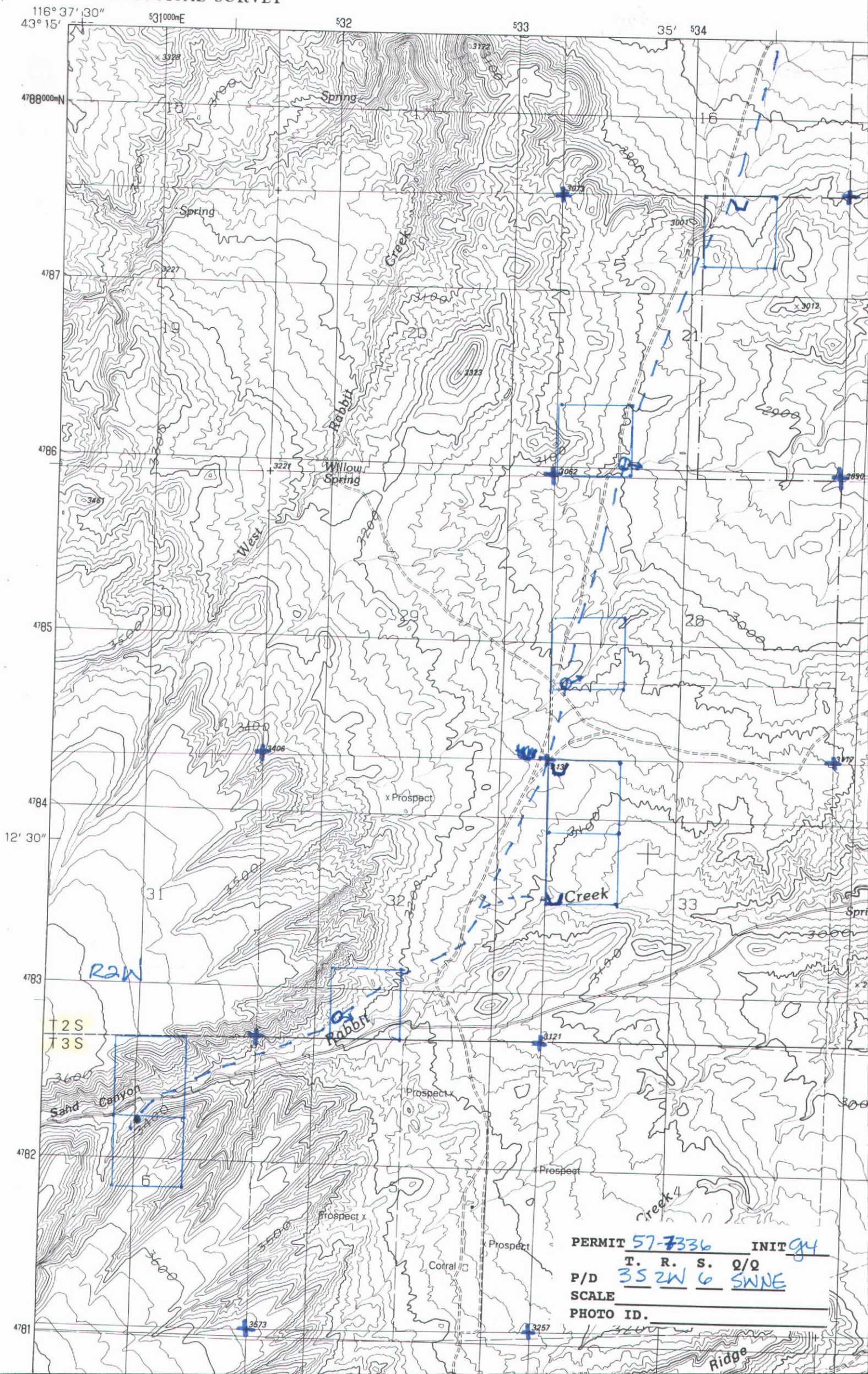
MICROFILMED

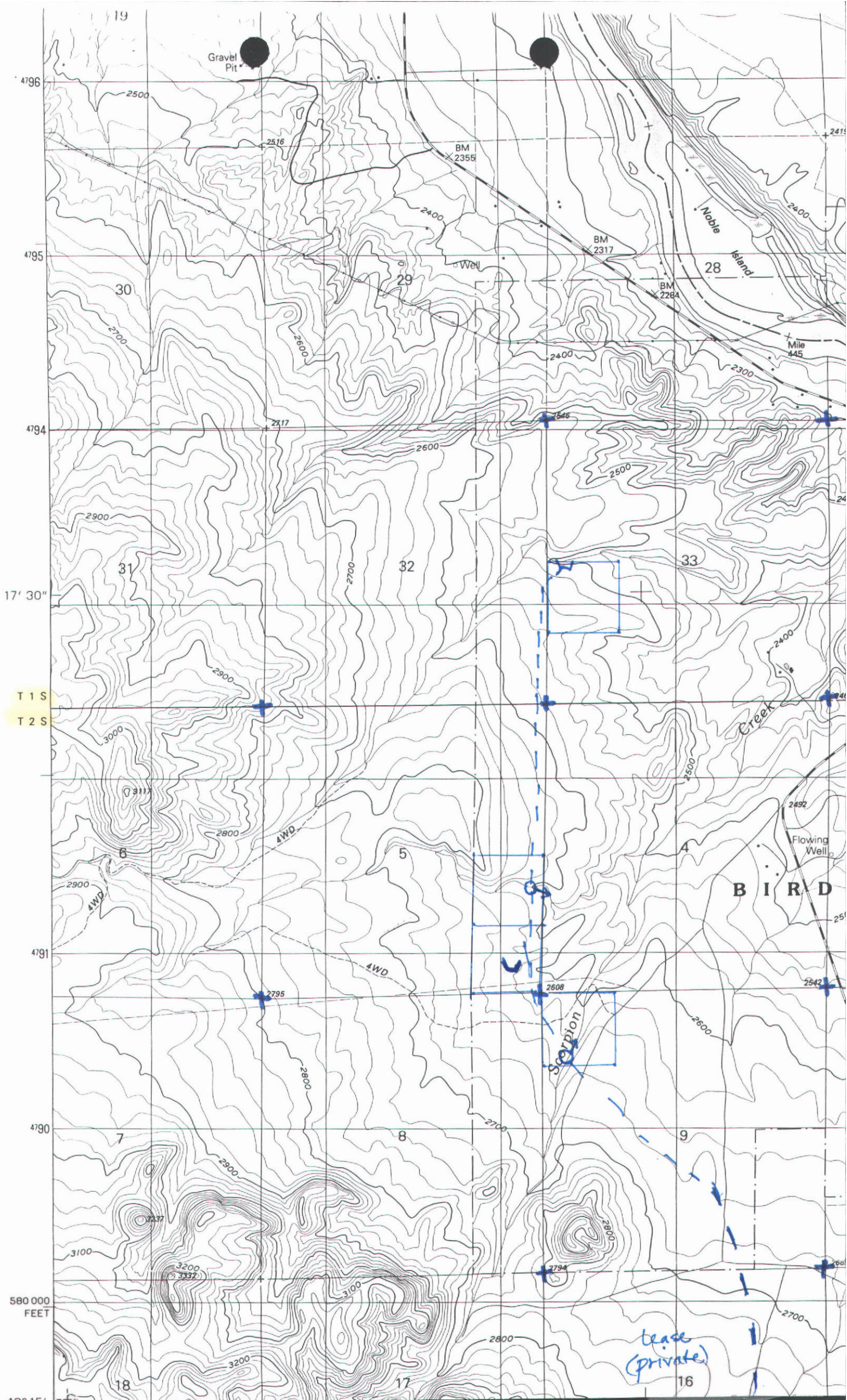
Township N°3 South, Range N°2 We

G F E d L

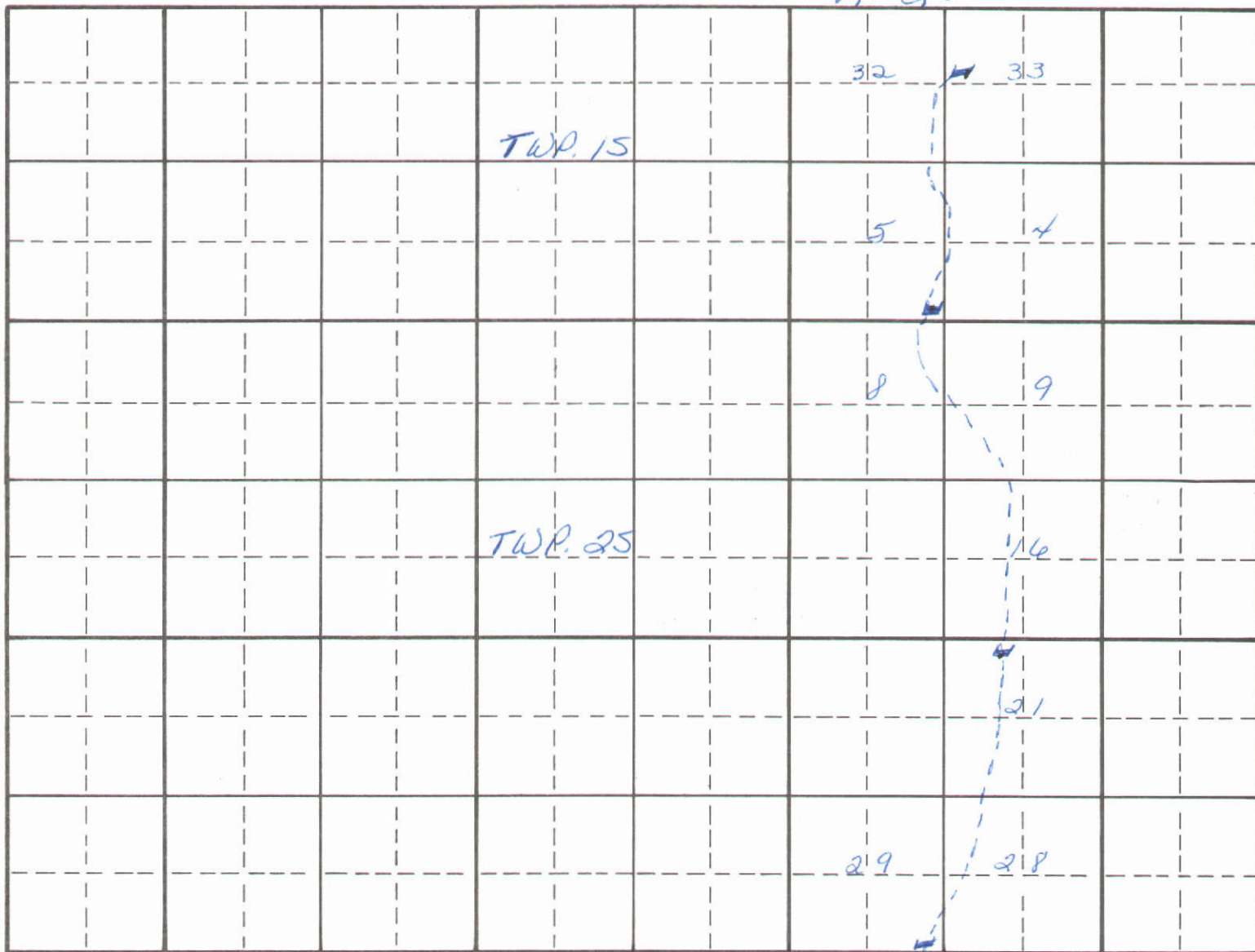


UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY



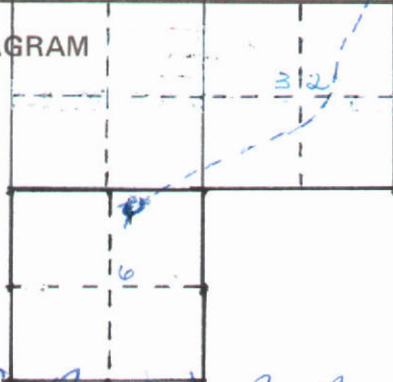


R. 2W



SCHEMATIC DIAGRAM

(Include distance from pump)



TWP. 35

Point(s) of diversion: ✓ NWNE, S. 6, T. 35, R. 2W, B. M.

Place(s) of Use ✓

TWP.	RGE.	SEC.	NE¼				NW¼				SW¼				SE¼				TOTALS
			NE%	NW%	SW%	SE%	NE%	NW%	SW%	SE%	NE%	NW%	SW%	SE%	NE%	NW%	SW%	SE%	
25	2W	5																	
		21																	
		29																	
15	2W	33																	

Recommended Amendments:

- ☐ Change P.D. as reflected above
☐ Change P.U. as reflected above

- ☐ Add P.D. as reflected above
☐ Add P.U. as reflected above

- ☒ None
☐ Other

Examiner's Signature

Checked by

Approved by

Jan Spruitt
 K. Walker

Date

Date

Date

1/9/86
 7/24/86
 7-18-86

RECORDED

JAN 30 1996

6-22-85

State of Idaho
Department of Water Resources

WATER RIGHT LICENSE

WATER RIGHT NO. 57-07336

Priority: May 28, 1982

Maximum Diversion Rate: 0.05 CFS
Maximum Diversion Volume: 14.4 AF

This is to certify, that US DEPT OF INTERIOR
BUREAU OF LAND MANAGEMENT
IDAHO STATE OFFICE
3380 AMERICANA TERRACE
BOISE ID 83706

has complied with the terms and conditions
of the permit, issued pursuant to Application for Permit dated May 28, 1982; and
has submitted Proof of Beneficial Use on March 8, 1983. An examination indicates
that the works have a diversion capacity of 0.050 cfs of water from:

RABBIT CREEK tributary to SNAKE RIVER

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

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>RATE OF DIVERSION</u>	<u>ANNUAL VOLUME</u>
STOCKWATER	01/01 to 12/31	0.05 CFS	13.4 AF
WILDLIFE	01/01 to 12/31	0.05 CFS	1.0 AF
	Totals	0.05 CFS	14.4 AF

LOCATION OF POINT(S) OF DIVERSION: Lot 2(NWNE), Sec. 6, Township 03S, Range 02W
SWNE, Sec. 6, Township 03S, Range 02W
OWYHEE County

PLACE OF USE: STOCKWATER

<u>TWN</u>	<u>RGE</u>	<u>SEC</u>	
01S	02W	33	NWSW
02S	02W	5	NESE SESE
		9	NWNW
		21	NWNE SWSW
		28	NWSW
		32	SESW
		33	NWNW SWNW

PLACE OF USE:

WILDLIFE, same as STOCKWATER use

CONDITIONS OF APPROVAL AND REMARKS

1. The maximum diversion volume is defined as the maximum allowable volume of water that may be diverted annually from the source under this right. The use of water confirmed by this right is limited to the amount which can actually be beneficially used. The maximum diversion volume may be adjusted to more accurately describe the beneficial use or to implement accepted standards of diversion and use efficiency.

State of Idaho
Department of Water Resources**WATER RIGHT LICENSE**

WATER RIGHT NO. 57-07336

CONDITIONS OF APPROVAL AND REMARKS

2. This water right is appurtenant to the described place of use.
3. This right is subject to all prior water rights and may be forfeited by five years of non-use.
4. Modifications to or variance from this license must be made within the limits of Section 42-222, Idaho Code, or the applicable Idaho law.
5. This right, when considered with all other rights common to the same grazing allotment, shall be limited to the quantity of water beneficially used by the number of stock within the allotment.
6. Single point of diversion is located on or near the line between NWN and SWNE, S06, T03S, R02W.
7. Place of use is located within the Rabbit Creek Pipeline Project #6322, Black Mountain Allotment #0517.
8. Stockwater use is for 1000 range cattle.

This license is issued pursuant to the provisions of Section 42-219, Idaho Code.
Witness the seal and signature of the Director, affixed at Boise, this 11TH
day of JANUARY, 1996.

Acting for


KARL J. DREHER, Director

RECEIVED

JAN 10 1996

State of Idaho
Department of Water Resources

Department of Water Resources

APPLICATION FOR AMENDMENT

(For Licensing Purposes)

WATER RIGHT NO. 57-07336

Date of Priority: May 28, 1982

Maximum Diversion Rate:

0.05 CFS

Maximum Diversion Volume:

14.4 AF

Comes now US DEPT OF INTERIOR

BUREAU OF LAND MANAGEMENT

IDAHO STATE OFFICE

3380 AMERICANA TERRACE

BOISE ID 83706

and represents to the Director of the

Idaho Department of Water Resources:

That he is the owner and holder of Permit to Appropriate the Public Waters of the State of Idaho No. 57-07336, and requests that the permit be changed as follows:

Source: RABBIT CREEK

tributary to **SNAKE RIVER**

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>RATE OF DIVERSION</u>	<u>ANNUAL VOLUME</u>
STOCKWATER	01/01 to 12/31	0.05 CFS	13.4 AF
WILDLIFE	01/01 to 12/31	0.05 CFS	1.0 AF
	Totals	0.05 CFS	14.4 AF

LOCATION OF POINT(S) OF DIVERSION: Lot 2(NWNE), Sec. 6, Township 03S, Range 02W
SWNE , Sec. 6, Township 03S, Range 02W
OWYHEE County

PLACE OF USE: STOCKWATER

TWN RGE SEC

01S 02W	33	NWSW	
02S 02W	5	NESE	SESE
	9	NWNW	
	21	NWNE	SWSW
	28	NWSW	
	32	SESW	
	33	NWNW	SWNW

PLACE OF USE:

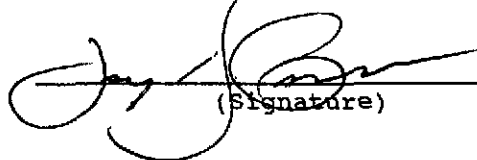
WILDLIFE, same as STOCKWATER use

State of Idaho
Department of Water Resources

APPLICATION FOR AMENDMENT
(For Licensing Purposes)
WATER RIGHT NO. 57-07336

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

Signed at BOISE, IDAHO, this 15 day of DECEMBER, 1995.


(Signature)

State of Idaho
Department of Water Resources

APPLICATION FOR AMENDMENT
(For Licensing Purposes)
WATER RIGHT NO. 57-07336

FOR DEPARTMENT USE ONLY

Preliminary check by _____ Fee = 50- Received by LR #WU20241 Date 1-8-96

ACTION OF THE DEPARTMENT OF WATER RESOURCES

I, Karl J. Dreher, of the Department of Water Resources hereby approve the
above Application for Amendment for Permit No. 57-07336 with the following;

CONDITIONS OF APPROVAL AND REMARKS

1. The maximum diversion volume is defined as the maximum allowable volume of water that may be diverted annually from the source under this right. The use of water confirmed by this right is limited to the amount which can actually be beneficially used. The maximum diversion volume may be adjusted to more accurately describe the beneficial use or to implement accepted standards of diversion and use efficiency.
2. This water right is appurtenant to the described place of use.
3. This right is subject to all prior water rights and may be forfeited by five years of non-use.
4. Modifications to or variance from this license must be made within the limits of Section 42-222, Idaho Code, or the applicable Idaho law.
5. This right, when considered with all other rights common to the same grazing allotment, shall be limited to the quantity of water beneficially used by the number of stock within the allotment.
6. Single point of diversion is located on or near the line between NWNE and SWNE, S06, T03S, R02W.
7. Place of use is located within the Rabbit Creek Pipeline Project #6322, Black Mountain Allotment #0517.
8. Stockwater use is for 1000 range cattle.

Witness my hand this 11th day of JANUARY, 1996

Acting for  KARL J. DREHER, Director

415

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
APPLICATION FOR PERMIT

To appropriate the public waters of the State of Idaho

1. Name of applicant Bureau of Land Management Phone 334 1582
Post office address 3948 Development Avenue Boise, Idaho 83705
unimproved 57,000 ac.
2. Source of water supply surface runoff which is a tributary of Rabbit Creek
3. Location of point of diversion is NW $\frac{1}{4}$ of NE $\frac{1}{4}$ of Section 6 Township 35
Range 2W B.M. Owyhee County, additional points of diversion if any: _____

4. Water will be used for the following purposes:

- Allow .23 cfs *
Amount .35 for livestock purposes from 1-1 to 12-31 (both dates inclusive)
(cfs or acre-feet per annum)
- Amount .10 for wildlife purposes from 1-1 to 12-31 (both dates inclusive)
(cfs or acre-feet per annum)
- Amount _____ for _____ purposes from _____ to _____ (both dates inclusive)
(cfs or acre-feet per annum)
- Amount _____ for _____ purposes from _____ to _____ (both dates inclusive)
(cfs or acre-feet per annum)

5. Total quantity to be appropriated:

- Allow .33 cfs * RC 11/1/82 per telecon w/Ed gheen
a. .45 cubic feet per second and/or b. _____ acre-feet per annum.

6. Proposed diverting works:

- a. Description of ditches, flumes, pumps, headgates, etc. Tile collection system, headbox, pipeline (~6 miles), troughs
- b. Height of storage dam _____ feet, active reservoir capacity _____ acre-feet; total reservoir capacity _____ acre-feet, materials used in storage dam: _____
Period of year when water will be diverted to storage 1-1 to 12-31 inclusive.
(Month/Day) (Month/Day)
- c. Proposed well diameter is _____ inches; proposed depth of well is _____ feet.

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

8. Description of proposed uses:

- a. If water is not for irrigation:
(1) Give the place of use of water: _____ $\frac{1}{4}$ of _____ $\frac{1}{4}$ of Section _____ Township _____
Range _____ B.M. See map.
- (2) Amount of power to be generated: _____ horsepower under _____ feet of head.
- (3) List number of each kind of livestock to be watered 1000 cattle
- (4) Name of municipality to be served _____, or number of families to be supplied with domestic water _____.
- (5) If water is to be used for other purposes describe: _____

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

[illegible]

Total number of acres to be irrigated

c. Describe any other water rights used for the same purposes as described above. *None*

9. a. Who owns the property at the point of diversion USPT - BLM

b. Who owns the land to be irrigated or place of use USDOT - BLM

c. If the property is owned by a person other than the applicant, describe the arrangement enabling the applicant to make this filing

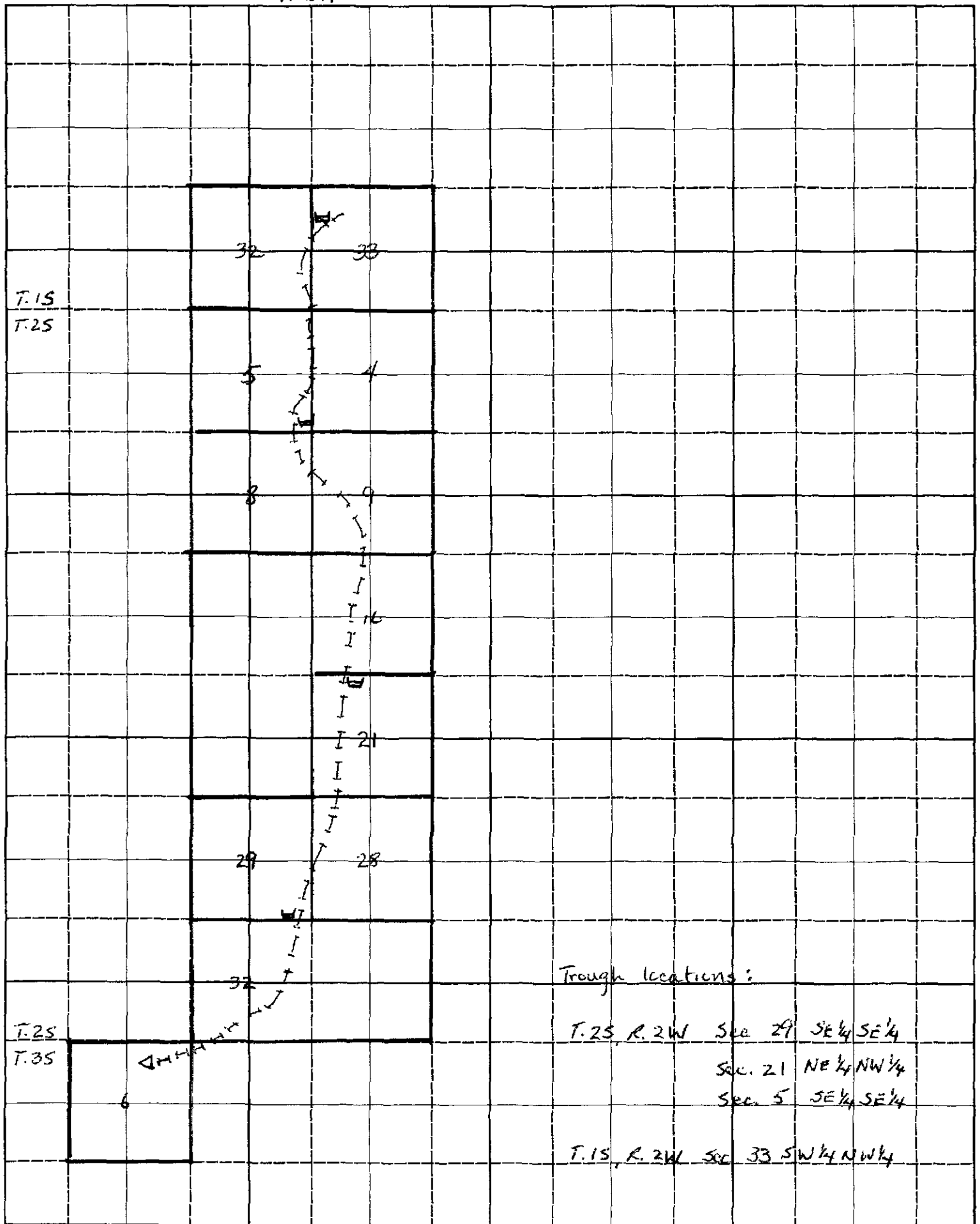
10. Remarks Rabbit Creek Pipeline

Project # 6322

Black Mountain Allotment 0517

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

R 2W



Trough locations:

T. 25	R. 2W	Sec 29	SE $\frac{1}{4}$	SE $\frac{1}{4}$
		Sec. 21	NE $\frac{1}{4}$	NW $\frac{1}{4}$
		Sec. 5	SE $\frac{1}{4}$	SE $\frac{1}{4}$

T. 15, R. 241 Sec 33 SW 1/4 NW 1/4

Scale $\frac{1}{2}$ inches equal 1 mile.

BE IT KNOWN that the undersigned hereby makes application for permit to appropriate the public waters of the State of Idaho as herein set forth.

Oscar Anderson
(Applicant)
COWHKE AREA, INC.

5/28/1982

8/30/82

3:30 pm

6-9-82

10:30

Received by JS

Date 5-20-82

Time 8:00

Preliminary check by JS

Fee \$ 45.00

ID-910-PH2-0018

Receipted by JS

Date 7-1-82

24423

Publication prepared by JS

Date 9/10/82

Published in Coeur d'Alene

Publication dates 9/23 & 9/30/82

Publication approved JS

Date 9/30/82

Protests filed by: _____

Copies of protests forwarded by _____

Hearing held by _____

Date _____

Recommended for (approval)

denial

by DBS

ACTION OF THE DIRECTOR, DEPARTMENT OF WATER RESOURCES

This is to certify that I have examined Application for Permit to appropriate the public waters of the State of Idaho No. 57-7336, and said application is hereby APPROVED.

1. Approval of said application is subject to the following limitations and conditions:

a. SUBJECT TO ALL PRIOR WATER RIGHTS.

b. Proof of construction of works and application of water to beneficial use shall be submitted on or before October 1, 19 87.

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

d. Other: Permit holder shall commence the excavation or construction of diverting works within one year of the date this permit is issued and shall proceed diligently until the project is complete.

Witness my hand this 28 day of October, 1982.

A. Glen Saxton
Chief, Operations Bureau



State of Idaho

DEPARTMENT OF WATER RESOURCES

1301 North Orchard Street, Statehouse Mail, Boise, Idaho 83720-9000

Phone: (208) 327-7900 FAX: (208) 327-7866

PHILIP E. BATT
GOVERNOR

KARL J. DREHER
DIRECTOR

January 11, 1996

US DEPT OF INTERIOR
BUREAU OF LAND MANAGEMENT
IDAHO STATE OFFICE
3380 AMERICANA TERRACE
BOISE ID 83706

RE: WATER RIGHT NO. 57-07336

Dear Water Right Holder(s):

Enclosed is a copy of the Water Right License issued on the above referenced permit along with a copy of your approved Application for Amendment.

Should you have any questions regarding these documents, please contact me.

Sincerely,

Shelley W. Keen
Water Rights Supervisor

SK:rl

Enclosure



State of Idaho

DEPARTMENT OF WATER RESOURCES

1301 North Orchard Street, Statehouse Mail, Boise, Idaho 83720-9000

Phone: (208) 327-7900 FAX: (208) 327-7866

PHILIP E. BATT
GOVERNOR

KARL J. DREHER
DIRECTOR

November 6, 1995

US DEPT OF INTERIOR
BUREAU OF LAND MANAGEMENT
IDAHO STATE OFFICE
3380 AMERICANA TERRACE
BOISE ID 83706

RE: WATER RIGHT NO. 57-07304 and 57-07336

Dear Water Right Holder(s):

The above referenced water rights are in the process of being licensed. However, before licenses can be issued, your permits must be amended to depict your water rights as they have actually been developed.

The enclosed Applications for Amendment contain information that will be included on the licenses when they are issued. The amendments reflect a changes in the location of the point(s) of diversion and the place(s) of use description. Please review carefully and if you concur, sign the amendments and return with the \$100.00 (\$50.00 each) filing fee within 60 days.

The last page of the Application for Amendment forms contain a list of CONDITIONS/REMARKS proposed for the licenses when they are issued. These conditions/remarks may be modified upon further administrative review.

If you do not concur, or if you have any questions about this information, please contact me as soon as possible. My telephone number is (208) 327-7946.

Sincerely,

Shelley W. Keen
Water Rights Supervisor

SK:rl

Enclosure

LICENSE REVIEW CHECKLIST

PERMIT NO. 57-07336 DATE 11-3-95



NAME Change OK ☒ Or Address Change? ☐

PRIORITY DATE ☐ ☒ Advance? ☐ Advanced to: ☐
 Order to reinstate needed? ☐
 Incorrect fee for rate recommended? ☐

SOURCE ☒ ☐ Changes or just clarification of originally intended source? Rabbit CREEK trib to SNAKE River
 Notice of Intent to Void necessary? NO
Add GOV Lot 2 to NW 1/4 44

POINT OF DIV ☒ ☐ Amendment needed? Add SWNE (Single point on line)
☐ ☒ Overlaps? ☐

PLACE OF USE ☒ ☐ Amendment needed? ☐
☐ ☒ Overlaps? ☐

DIV RATE ☐ ☒ Permit/fee limits: .33 CFS / 1000 cattle
Pipeflow Meas Q = .05 Theo Q = Recommend: .05
Rate reduced to capacity
 Combined rates exceed capacity ☐

ANNUAL VOLUME ☒ ☐ Volume Limit: Season: 1-1 to 12-31
 Calculations: 1000 cattle x .0134 = 13.4 g/f
Wildlife .1 g/f each trough x 10 = 1.0 g/f
 Flow limit: cfs x x 1.9835 =
 Combined volumes exceed capacity/allowable ☐

USES ☐ ☒ Change in Nature of Use or additional uses? ☐
 Amendment necessary? ☐

ADDITIONAL INFO Supplemental Groundwater ☐ PPU Scenario ☐
 Irr/Dom Combination ☐ Shared G/W System ☐

NEW REMARKS w33/ w02 Multiple p/d(s) in 1/4 1/4? Rabbit Creek Pipeline PROJECT
#6322 located within Black mtn

NEW CONDITIONS ☐ ☐ Watermaster control - District Allocation 0517
☐ ☐ Measuring/Locking Devices ☐
☐ ☐ Irrigation Overlap ☐
R37 ☐ Other Standard Gov Stock Condition
☐ ☐ Water Quality ☐ Heat/Cool/Fish verified ☐

COMMENTS: Reduce rate to capacity
Amend P/D + P/U

RECOMMENDATION	CFS	VOLUME	SRBA Claim Filed	<u>YES</u>
<u>Stockwater</u>	<u>.05</u>	<u>13.4</u>	Adjustment Memo Needed	<u>YES</u>
<u>Wildlife</u>	<u>.05</u>	<u>1.0</u>	LICENSE	<u> </u>
<u>TOTAL</u>	<u>.05</u>	<u>14.4</u>	1ST AMEND LETTER	<u>P48 + P38</u>
			2ND AMEND LETTER	<u>P47</u>

A. GENERAL INFORMATION

Permit No. 57-7336

1. Owner: BLM - Dept of Interior Phone No. 384-3300

Current Address: 3948 Development Ave Boise ID 83705

2. Accompanied by: Kim Schultzmeier EXAM DATE: 8.22.95

Address: _____ Phone No. 384.3440

Relationship to Permit Holder: Area Manager

3. Source: Rabbit Creek tributary to Snake River

B. OVERLAP REVIEW

1 Other water rights with the same place of use: NONE

2. Other water rights with the same point of diversion: NONE

C. DIVERSION AND DELIVERY SYSTEM

1. Point(s) of Diversion:

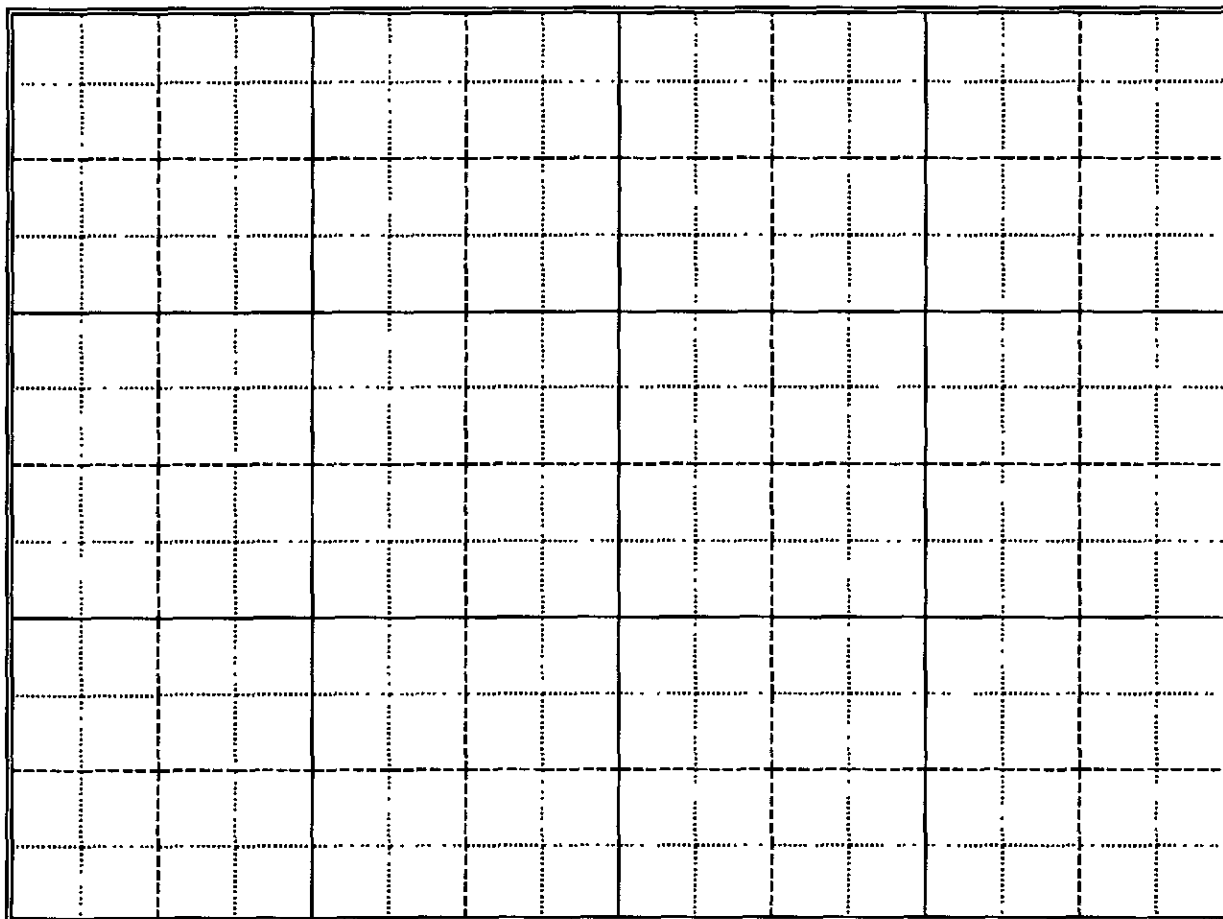
[illegible]

2 Place(s) of Use:

Indicate Method of Determination above

[illegible]

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



Scale: 1" = _____

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

_____ 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: None. Theoretical pipeflow calculation from project specifications.

E. NARRATIVE/REMARKS/COMMENTS

System description: 3" perforated PVC pipe in Rabbit Creek collects into a series of three settling tanks. From final tank, approx 8 miles of pipeline provides flow to 5 troughs & 5 turnouts to natural basins. (Not all turnouts used at all times) 2" line exits tanks, reduced to 1 1/2" then 1 1/4" at end of line. Total elevation change from diversion to end of line approx 820 feet, from topo maps. Project I.D. = #6322, Rabbit Creek pipeline.

Place of use is within Black Mtn Allotment #517
Stockwater is for up to 1000 head range cattle.

No overlaps. No claim filed on 57-2038, recorded in
SWNW Sec. 33 252W

Rate of flow: Pipeflow calculations (see attached) yield .017 cfs at end of line, and .052 cfs at first turnout. Because turnouts & flows to troughs can be regulated, theoretical flow to 1st turnout represents diversion capacity, & recommended flow. Flow at end of line indicates that beneficial use is possible throughout length of pipeline.

Source: Developed in Rabbit Creek proper. Recommend to clarify source in license amendment. No impact.

Have conditions of permit approval been met? ☒ yes ☐ no

F. FLOW CALCULATIONS

Measured Method:

To first turnout .052 cfs
To end of line .017 cfs

Additional Computation Sheets Attached

G. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

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

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

$V = \text{Smaller of } V_{IR} \text{ and } V_{DR} =$ _____

2. Volume Calculations for Other Uses:

range cattle 1000 hd $\times$.0134 = 13.4 afa

H. RECOMMENDATIONS

1. Recommended Amounts

Beneficial Use	Period of Use		Rate of Diversion Q (cfs)	Annual Volume V (afa)
	From	To		
* Stockwater	1/1	12/31	.052	13.4
* Wildlife	1/1	12/31	.052	13.4
Totals:			.052	13.4

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 clarify source

I. AUTHENTICATION

Field Examiner's Name Cindy J. Hodges Date 8.31.95

Reviewer _____ Date _____

SEAL

* See adjustment memo explanation. BC

MEMORANDUM

TO: File 57-07336 / BLM
FROM: Brenda Chapman
DATE: November 3, 1995
RE: Recommendation Adjustment(s)

=====

The final licensing recommendations for Right 57-07336 are based on the information below:

G. VOLUME CALCULATIONS

Unless there is information to justify a higher requirement, the usual wildlife volume recommendation is .1 af per location. I recommend the volumes be additive to give the wildlife a portion in addition to what the 1000 cattle will consume.

H. RECOMMENDATIONS

1. Recommended Amounts

Beneficial Use	Period of Use	Rate of Div	Annual Vol
Stockwater	1-01 to 12-31	.05	13.4
Wildlife	1-01 to 12-31	.05	1.0

Pipeflow Computation Spreadsheet (DRT 12/31/1992)

Data Entered By: Cindy Hodges
 8/29/95
 Project: Flow Computation for Permit No. 57-07336
 BLM - Rabbit Creek Pipeline
 Given: See Data Table

Compute head losses with the Williams and Hazen Formula:

$$f = 0.2083 \cdot (100 / \text{roughness})^{1.85} \cdot ((\text{cfs} \cdot 448.8)^{1.852} / \text{ID}^{4.8655} \cdot \text{Length} / 100)$$

To Find: Compute Rate of Flow

Data Table

Total Head: 100.00 feet
 Pressure Req'd: 5.00 psi
 Available Head: 88.45 feet
 Pipe Roughness: 150.00 Note: pvc = 150, smooth and straight pipe = 140
 aluminum - joint length 20' = 125, joint length
 30' = 130, joint length 40' = 132, joint length
 50' = 134, new riveted steel = 100
 old riveted steel = 100, old cast iron = 95,
 old pipes in poor condition = 60 to 80

Inside Diameter in Inches	Equivalent Length in Feet	Unit Head Loss	Total Head Loss from Pipe Friction
1.75	4000.00	88.33	
1.25	0.00	0.00	
1.00	0.00	0.00	
1.00	0.00	0.00	88.33

Rate of Flow: 0.052 CFS To first turn-out

Solution is obtained by entering an estimated rate of flow and adjusting until Total Head Loss approximates Available Head.

Pipeflow Computation Spreadsheet (DRT 12/31/1992)

Data Entered By: Cindy Hodges
 8/29/95
 Project: Flow Computation for Permit No. 57-07336
 BLM - Rabbit Creek Pipeline
 Given: See Data Table

Compute head losses with the Williams and Hazen Formula:

$$f = 0.2083 * (100 / \text{roughness})^{1.85} * ((\text{cfs} * 448.8)^{1.852} / \text{ID}^4.8655 * \text{Length} / 100)$$

To Find: Compute Rate of Flow

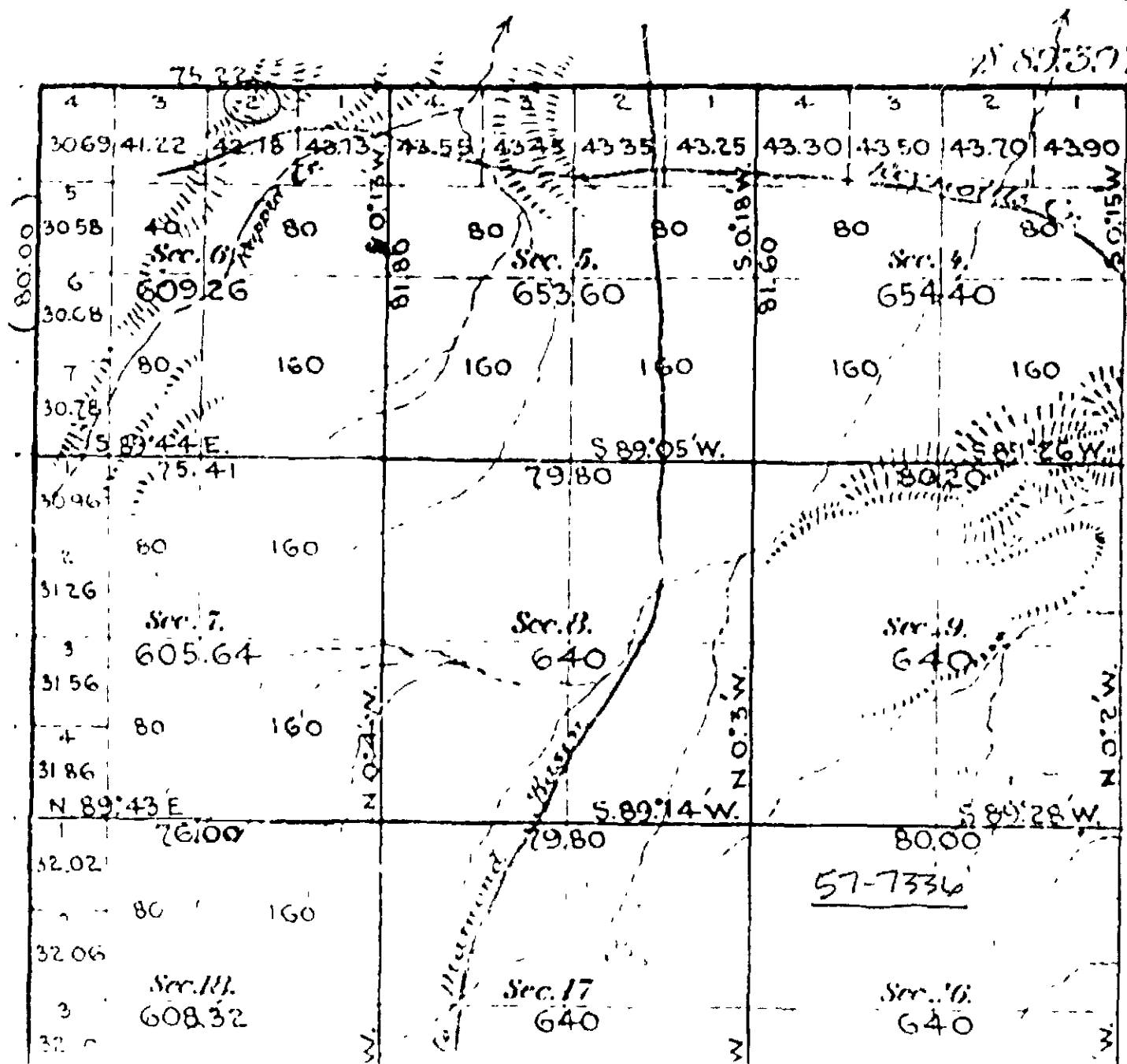
Data Table

Total Head: 820.00 feet
 Pressure Req'd: 5.00 psi
 Available Head: 808.45 feet
 Pipe Roughness: 150.00 Note: pvc = 150, smooth and straight pipe = 140
 aluminum - joint length 20' = 125, joint length
 30' = 130, joint length 40' = 132, joint length
 50' = 134, new riveted steel = 100
 old riveted steel = 100, old cast iron = 95,
 old pipes in poor condition = 60 to 80

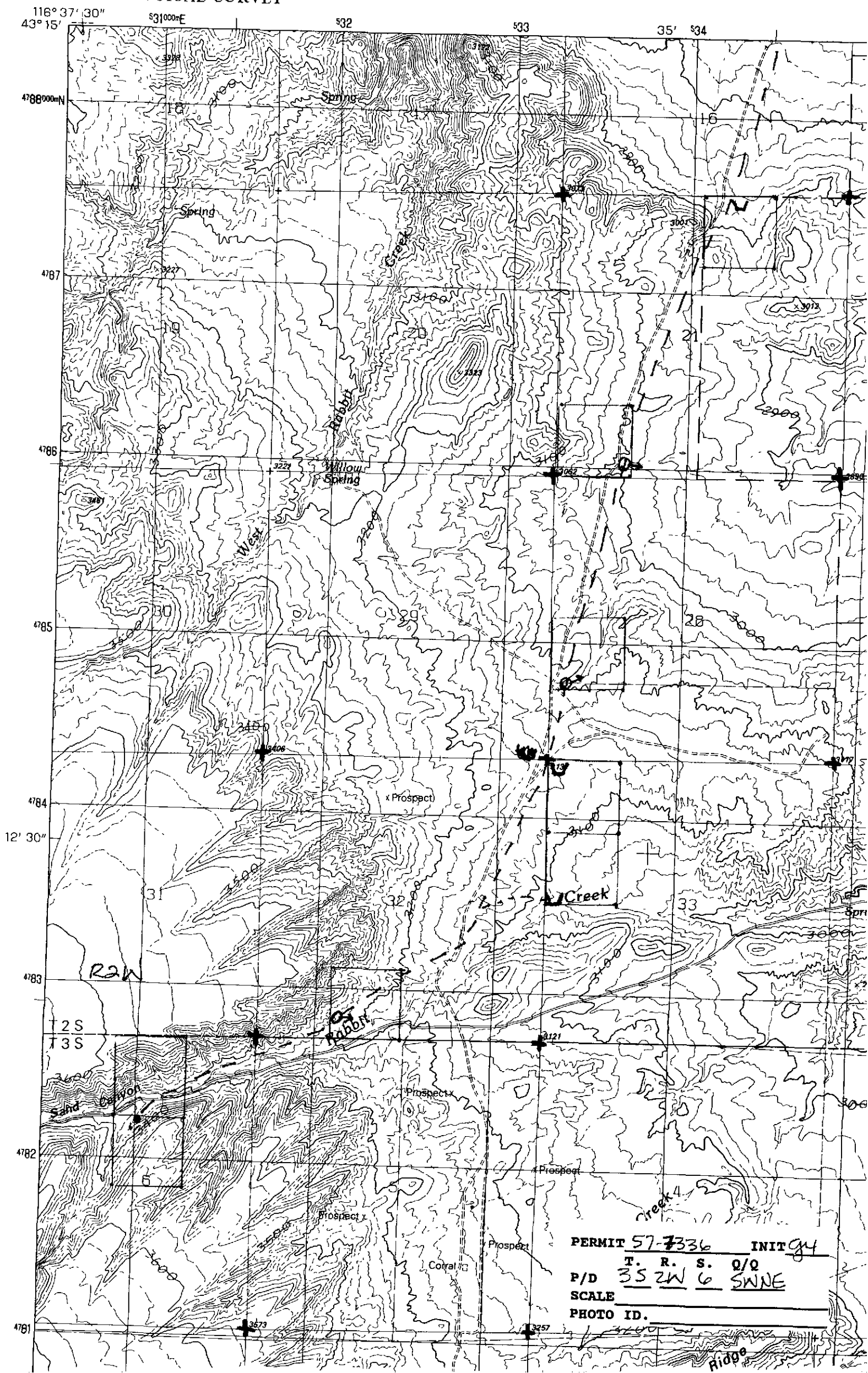
Inside Diameter in Inches	Equivalent Length in Feet	Unit Head Loss	Total Head Loss from Pipe Friction
1.75	14000.00	37.72	
1.25	14000.00	193.91	
1.00	14000.00	574.28	
1.00	0.00	0.00	805.91

Rate of Flow: 0.017 CFS To end of line

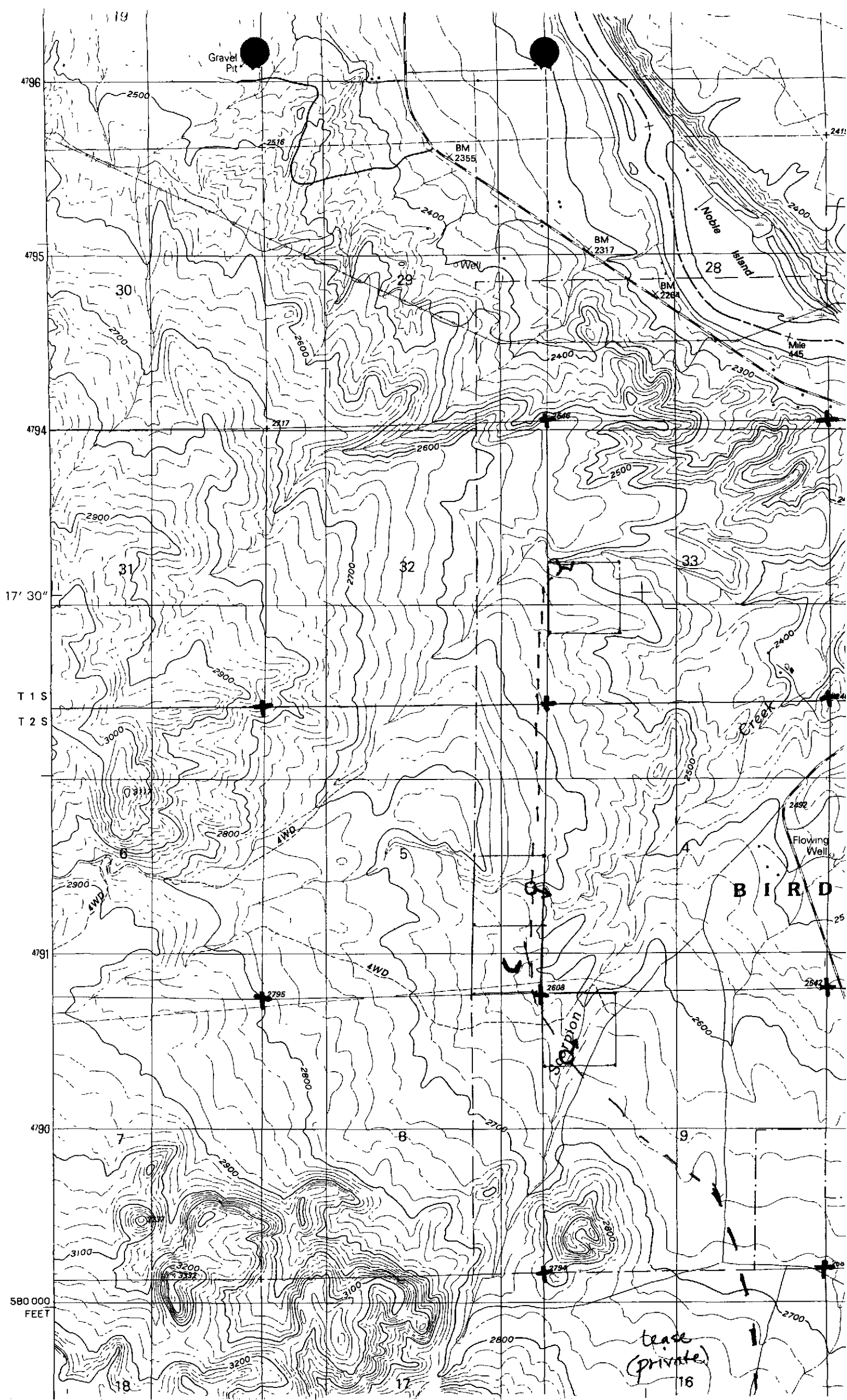
Solution is obtained by entering an estimated rate of flow and adjusting until Total Head Loss approximates Available Head.

$$G \qquad f \qquad F \qquad e \qquad E \qquad d \qquad D$$


UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY



PERMIT 57-7336 INIT 84
T. R. S. Q/Q
P/D 35 2W 6 SWNE
SCALE
PHOTO ID.



INTER-DEPARTMENT MEMO — 1

DATE 8-7-86

FROM Jim

TO Dave T.

SUBJECT 55-7236, 51-7191, 51-7190, 51-7188, 51-7178, 51-7175, 51-7192
57-7336

ATTACHED ARE FIELD EXAMS FOR THE ABOVE RIGHTS. Norm
WOULD NOT ACCEPT THE EXAMS W/O SITE INSPECTION DUE TO
LARGE SIZE.

SIGNATURE

Piece of PVC separated
pipeline ^{3"} into 3 settling tanks to
get sedimentation out
then continuous flow ^{500'} through
pipeline to troughs. ^{mainline = 1 1/2"}
Place of use can change
by landowner. ^{ele - 2800' last}
^{3320 div}

State of Idaho
DEPARTMENT OF WATER RESOURCES
WATER RIGHT BENEFICIAL USE

57-7336

CONTACT WITH PERMIT HOLDER

☐ Appointment letter mailed

☒ Telephone call made
(List Telephone No. used)

☐ Appointment scheduled for:
(Date, time, location)

DATE

INITIALS

REMARKS

RECEIVED

FEB 26 1986

Department of Water Resources

Dwyer Resource Area - Boise Dist.
Office

EXAMINATION

Date 3/13/84 Accompanied by Kim D. Total Q measured .33 cfs - est.

Source UNN. STREAM Tributary to RABBIT CR. Supp annubar measurement sheet used?

If source is surface water, estimate total flow of source

Methods of measurement estimation Meets permit requirements?

Measurement calculations:

Stockwater - .23 cfs - 1,000 hd - 13.4 afa
Wildlife - .10 cfs - misc. - 13.4 afa
 $1000 \text{ hd.} \times .0134 = 13.4 \text{ afa}$

WELL/DIV NO.	HP	MOTOR MAKE	MOTOR SERIAL NO	PUMP MAKE	PUMP SERIAL NO	MEASURING DEVICE TYPE	CONDITION OF MEAS DEVICE	REMARKS

System Description Pile collector with 6 miles of pipeline to four troughs. See attached diagram of common spring system, although the source is unn stream, the spring system was used.

*Code with map on reverse side. Disregard code if only one.

6.5 mi total
3" collection → 2" → 1 1/2" → 1 1/4" all PVC
2" - 12,400' + 500' + 500'
1 1/2" - 3,000' + 300'
1 1/4" - 10,500'

RECOMMENDED AMOUNTS

USE

Stockwater - 1000 hd ✓
Wildlife - misc ✓

Irrigation requirement = AFA/Acre

Q (cfs)

V (afa)

FROM

TO

.23 ✓

13.4 ✓

1-1

12-31

.10 ✓

13.4 ✓

1-1

12-31

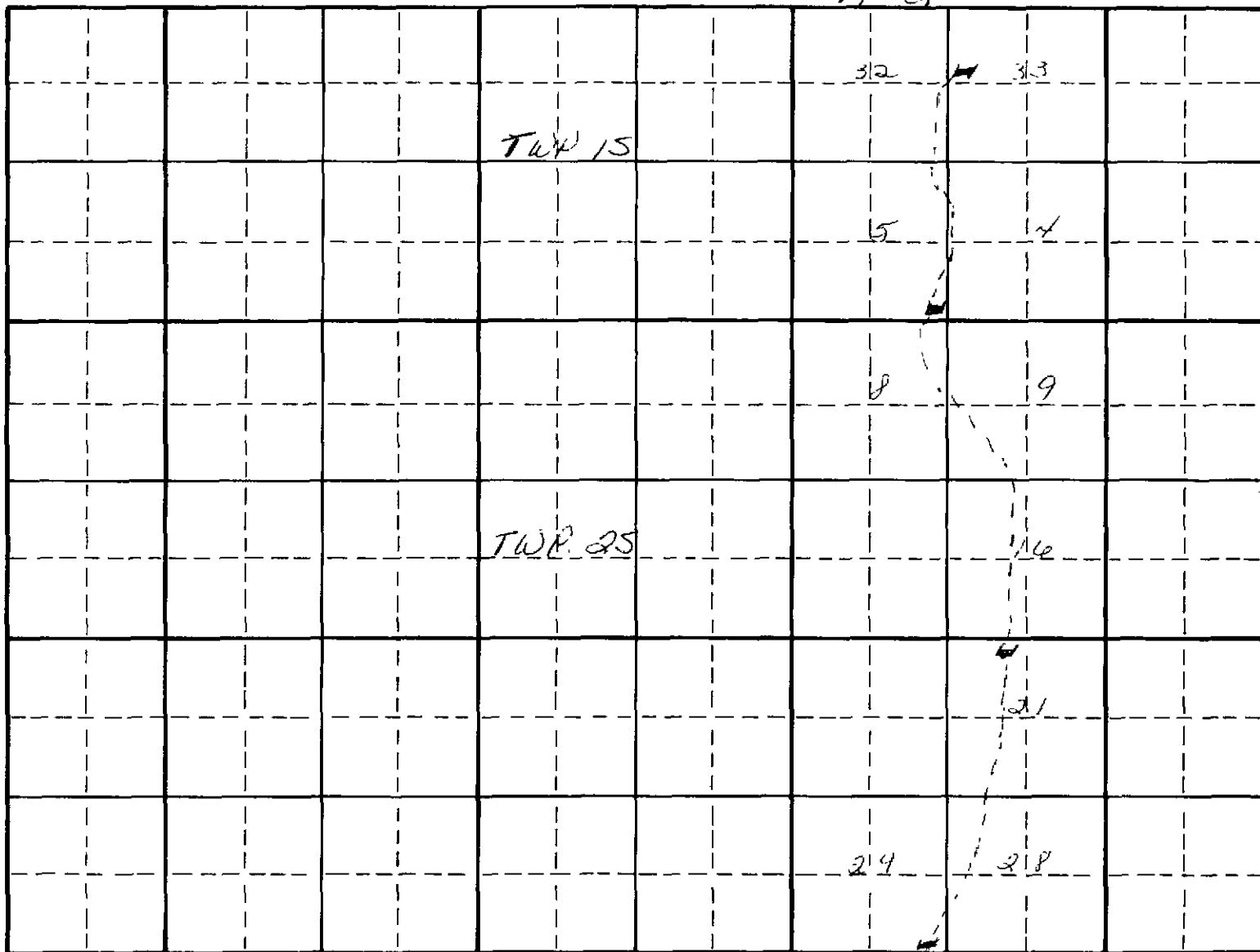
Total

.33 cfs 13.4 afa

Remarks

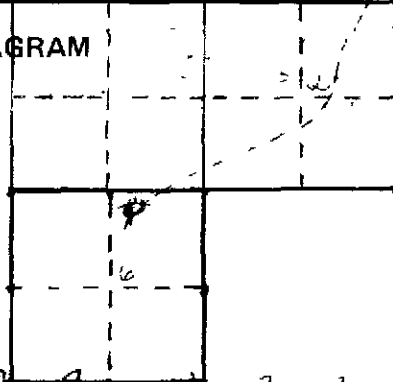
AKA Rabbit Creek pipeline, Project #10322

R. 2W



SCHEMATIC DIAGRAM

(Include distance from pump)



TWP 35S

Point(s) of diversion: NW 1/4, S. 6, T. 35S, R. 2W, D. 11N.

Place(s) of Use



TWP.	RGE.	SEC.	NE 1/4				NW 1/4				SW 1/4				SE 1/4				TOTALS
			NE 1/4	NW 1/4	SW 1/4	SE 1/4	NE 1/4	NW 1/4	SW 1/4	SE 1/4	NE 1/4	NW 1/4	SW 1/4	SE 1/4	NE 1/4	NW 1/4	SW 1/4	SE 1/4	
25	2W	5																	
		21																	
		29																	
12	2W	33																	

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

Examiner's Signature

Checked by

Approved by

Jan Spivey
K. Walker

Date

Date

Date

1/19/86

7/24/86

7-18-86

4.22.65

PLACE
TEN CENT
STAMP
HERE

DEPARTMENT OF
WATER RESOURCES

MAR 6 1977

IDAHO DEPARTMENT OF WATER RESOURCES
STATEHOUSE
BOISE, IDAHO 83720

DEPARTMENT OF WATER RESOURCES

The Idaho Department of Water Resources
holder(s) has completed development

Consider this card a statement that the permit
shown below is permit No. 57-7336

Name(s) of Permit Holder: Bureau of Land Management

Post Office Address: 3948 Development Ave.
Boise IDA. 83705 Tel No. 334-1582

Source of Water: unnamed stream

Extent of Use:

☐ Domestic	(number of households)
☒ Stockwater <u>1000 Cattle</u>	(number and type of stock)
☐ Irrigation	(acres)
☒ Other <u>Wildlife</u>	<u>no unknown</u>

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

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

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

3/1/83 Date Kim Schattman Signature of Permit Holder

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
Western Region

Statehouse
Boise, Idaho 83720
(208) 334-2190

MARCH 18, 1983

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

RE: Permit No. 57-7336

Dear Permit Holder:

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

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

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

If you have any questions regarding the field examination, please contact this office by phone at 334-2190 or in person in the third floor State Towers Building, 450 West State Street, Boise.

Sincerely,
s/Judy Pense
Secretary

STATE OF IDAHO
DEPARTMENT OF LAND RESOURCES

STATE HOUSE
BOISE, IDAHO 83720
(208) 331-1440

U.S. DEPT. OF INTERIOR
BUREAU OF LAND MGMT.
FEDERAL BLDG. BOX 042
550 W. FORT ST.
BOISE, ID 83724

NOVEMBER 09, 1982

RE: PERMIT NO. 57-7331, 57-7335 and 57-7336

DEAR PERMIT HOLDER:

ENCLOSED IS A COPY OF YOUR APPROVED APPLICATION FOR PERMIT. WE DIRECT YOUR ATTENTION TO THE CONDITIONS OF APPROVAL ON THE FOURTH PAGE.

THE 1982 IDAHO LEGISLATURE ADDED A REQUIREMENT THAT AS A PERMIT HOLDER YOU MUST COMMENCE THE EXCAVATION OR CONSTRUCTION OR DREDGING WORKS WITHIN ONE YEAR OF THE DATE THE PERMIT WAS ISSUED, AND YOU MUST PROCEED CONTINUOUSLY UNTIL THE PROJECT IS COMPLETED. THE ENCLOSED BLUE CARD MUST BE COMPLETED AND RETURNED TO THIS OFFICE AS SOON AS YOU COMMENCE CONSTRUCTION, AND LATER THAN ONE YEAR FROM THE DATE THE PERMIT WAS APPROVED.

WE HAVE ENCLOSED INSTRUCTIONS ENTITLED "MAKING PROOF OF BENEFICIAL USE". PLEASE READ THE INSTRUCTIONS CAREFULLY SINCE YOU MUST TAKE FURTHER ACTION TO DEVELOP THIS PERMIT INTO A LICENSE.

SINCERELY,

DAVID R. TUTTILL, JR., D.E.
SUPERVISOR, WATER ALLOCATION SECTION

ENCLOSURE

DATE 11-1-82FILE 57-7336NAME OF PARTY Ed Gheen BLM-334-9292EMPLOYEE Robyn CarlsonRE: cfs amount on app

Today I talked with Mr Gheen via telephone in regards to the cfs amount on the application. He said to go ahead & reduce the cfs amount to .23cfs for stockwater.

11-1-82

INTER-DEPARTMENT MEMO — 1

FROM Dave Tuthill *DT*
TO Southern, Eastern, Western Regions
SUBJECT BLM Filings of Water Rights

DATE June 7, 1982

P. O. ID-910-PH2-0013 for BLM filings of water rights was received May 28, 1982. This would place the proposed priority date of May 28, 1982, for applications received on or before May 28, 1982, under P. O. ID-910-PH2-0013.

SIGNATURE

PROOF OF PUBLICATION

STATE OF IDAHO, County of Owyhee, s.s.

I, MICK HODGES, being first duly sworn, on oath says that he is the Publisher of the OWYHEE NUGGET, a newspaper of general circulation, published weekly by MICK HODGES, publisher and printer thereof, at Marsing, County of Owyhee, State of Idaho;

That the annexed notice was published in said newspaper once a week and every week for 2 consecutive weeks, the first publication being on the 22 day of September, 1982, and the last publication being on the 29 day of September, 1982;

That the said newspaper has been published continuously and uninterruptedly in said county during a period of more than seventy - eight consecutive weeks prior to the first publication of the attached notice.

Mick Hodges
PUBLISHER

Subscribed and sworn to before me this 29 day of

September, 1982.

Kyle L. Hodges
NOTARY PUBLIC

My commission expires

3

(SEAL)

SEP 30 1982

NOTICE OF APPLICATION FOR WATER RIGHT

The following applications have been filed to appropriate the public waters of the State of Idaho:

57-7334

U.S. DEPT. OF INTERIOR
BUREAU OF LAND MGMT.,
FEDERAL BLDG. BOX 042,
550 W. FORT ST., BOISE, ID
83724

Source: POISON CREEK
SPRING tributary to POISON
CREEK

Date Filed: 05/28/1982

Amount: 0.03 CFS

Diversion Point: NESE Sec 02

T 08S R 01E, OWYHEE Co.

Use: STOCK WATER (0.03
CFS) from 01/01 to 12/31

WILDLIFE (0.03 CFS) from
01/01 to 12/31

Place of Use: SWSW Sec 28 T

07S R 02E SWNW NESE Sec

33 T 07S R 02E NESW Sec 27 T

07S R 02E

Diversion Means: PIPE &
THROUGHS

57-7335

U.S. DEPT. OF INTERIOR
BUREAU OF LAND MGMT.,
FEDERAL BLDG. BOX 042,
550 W. FORT ST., BOISE, ID
83724

Source: UNNAMED SPRING
tributary to HARD TRIGGER
CREEK

Date Filed: 05/28/1982

Amount: 0.11 CFS

Diversion Point: SWNW Sec

17 T 01S R 04W, OWYHEE Co.

Use: STOCK WATER (0.10

CFS) from 01/01 to 12/31

WILDLIFE (0.01 CFS) from

01/01 to 12/31

Place of Use: SWSW SWNW

Sec 05 T 01S R 04W NESW

NENE Sec 32 T 01N R 04W

SWSW Sec 21 T 01N R 04W

SESW Sec 16 T 01N R 04W

Diversion Means: COLLEC-

TION SYSTEM, HEADBOX,

PIPELINE & TROUGHS

57-7336

U.S. DEPT. OF INTERIOR
BUREAU OF LAND MGMT.,
FEDERAL BLDG. BOX 042,
550 W. FORT ST., BOISE, ID
83724

Source: UNNAMED STREAM
tributary to RABBIT CREEK

Date Filed: 05/28/1982

Amount: 0.45 CFS

Diversion Point: NWNE Sec 06

T 03S R 02W, OWYHEE Co.

Use: STOCK WATER (0.35

CFS) from 01/01 to 12/31

WILDLIFE (0.10 CFS) from

01/01 to 12/31

Place of Use: SESE Sec 29 T 02S

R 02W NENW Sec 21 T 02S R

02W SESE Sec 05 T 02S R 02W

SWNW Sec 33 T 01S R 02W

Diversion Means: COLLEC-

TION SYSTEM, HEADBOX,

PIPELINE & TROUGHS

The permits will be subject to all prior water rights. Protests must be filed with the Director, Dept. of Water Resources, Western Region, Statehouse, Boise, Idaho 83720 on or before OCTOBER 11, 1982.

KEN DUNN, Dir.

Published in the Owyhee
Nugget, Marsing, Owyhee

52-2336-

U.S. DEPT. OF INTERIOR

BUREAU OF LAND MGMT., FEDERAL BLDG. BOX 042, 550 W. FORT ST., BOISE, ID 83724

Source: UNNAMED STREAM tributary to RABBIT CREEK

Date Filed: 05/28/1982

Amount: 0.45 CFS

Diversion Point: NWNE Sec 06 T 03S R 02W, OWYHEE Co.

Use: STOCKWATER	(0.35 CFS)	from 01/01 to 12/31
WILDLIFE	(0.10 CFS)	from 01/01 to 12/31

Place of Use: SESE Sec 29 T 02S R 02W NENW Sec 21 T 02S R 02W SESE
Sec 05 T 02S R 02W SWNW Sec 33 T 01S R 02W

Diversion Means: COLLECTION SYSTEM, HEADBOX, PIPELINE & TROUGHS