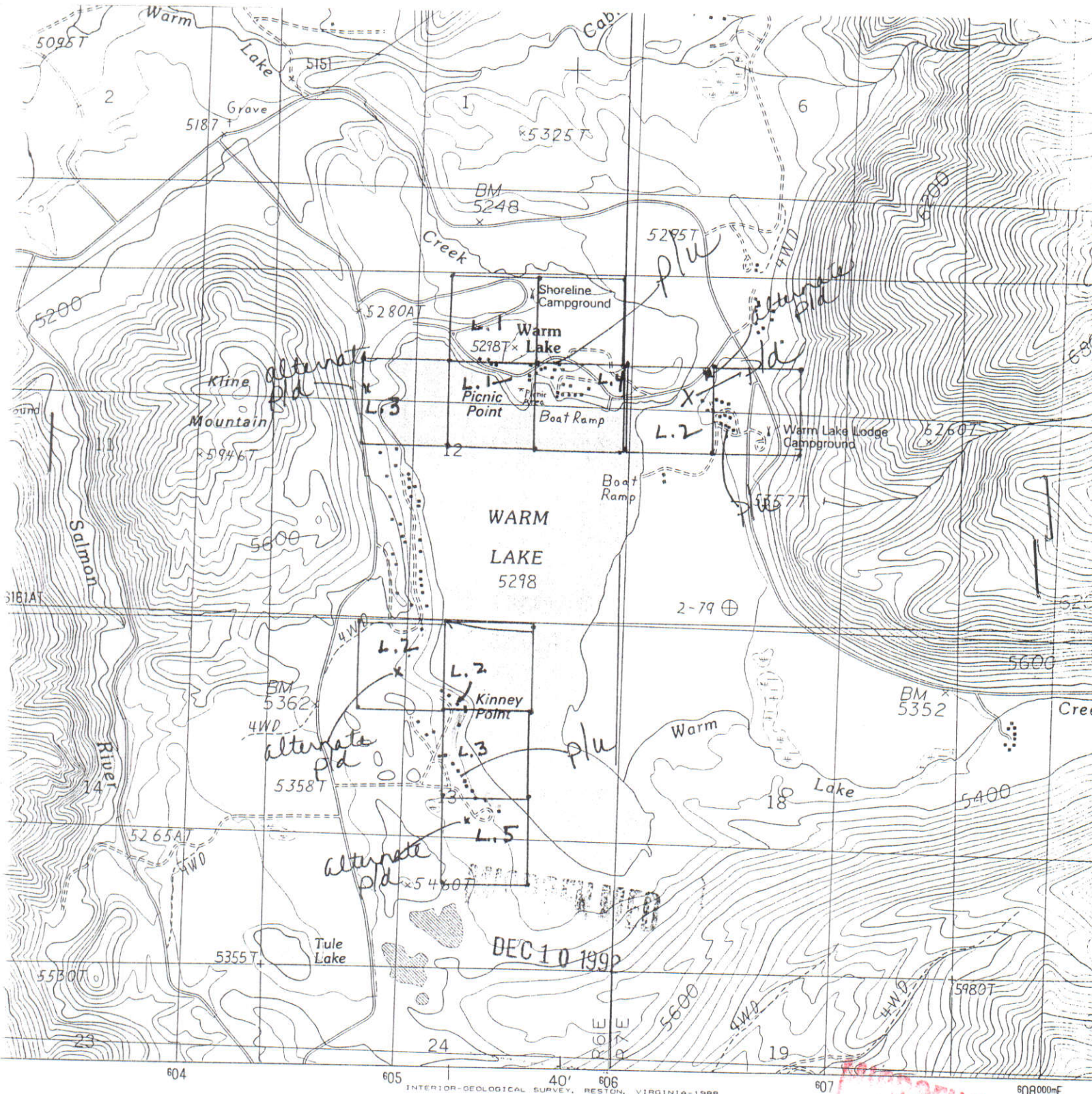




INTERIOR GEOLOGICAL SURVEY, RESTON, VIRGINIA-1988

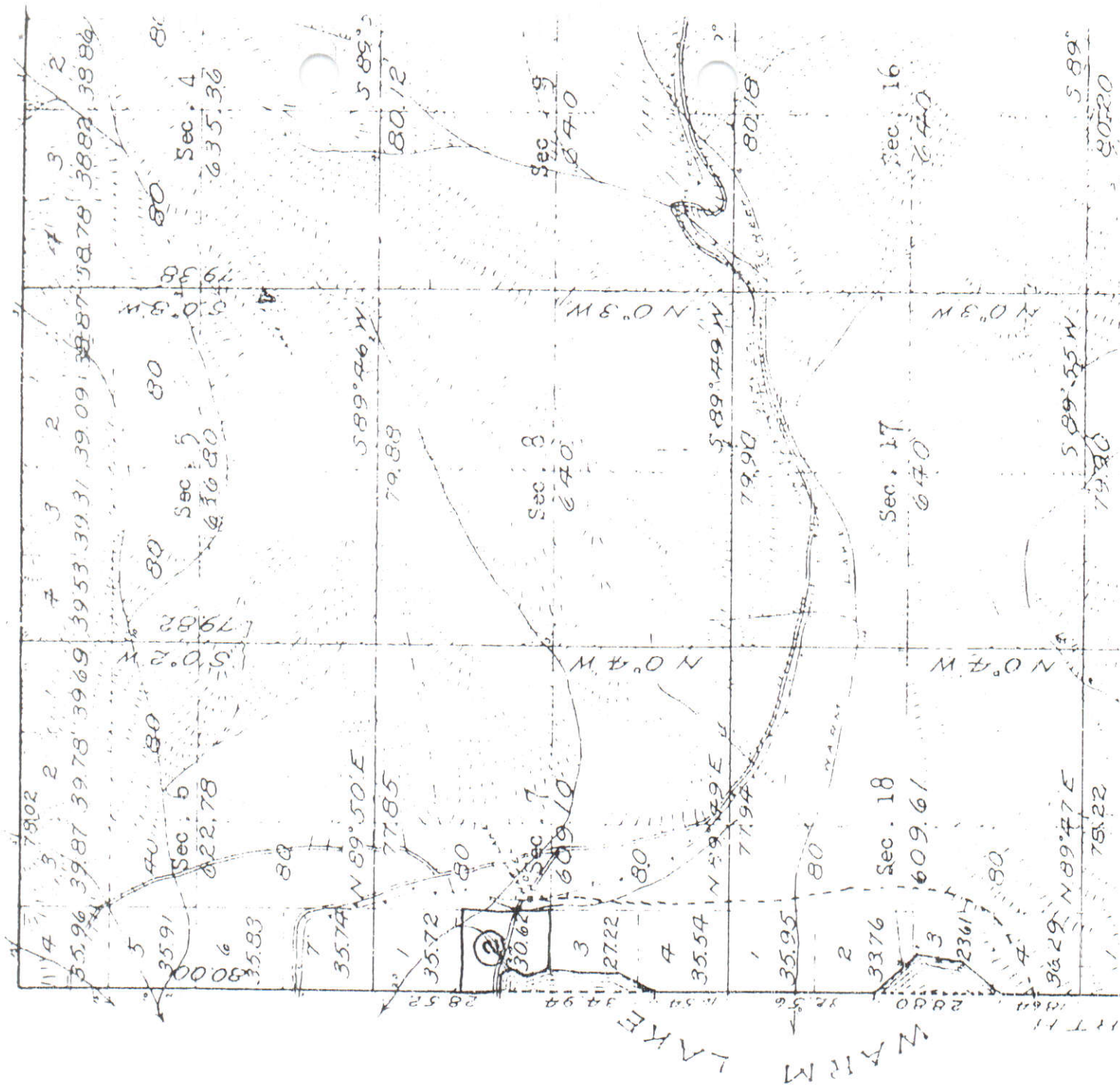
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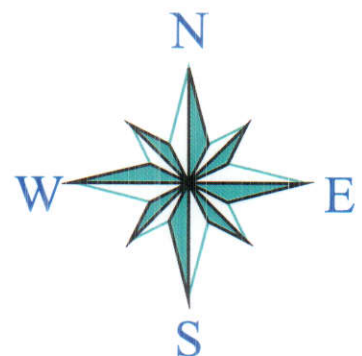
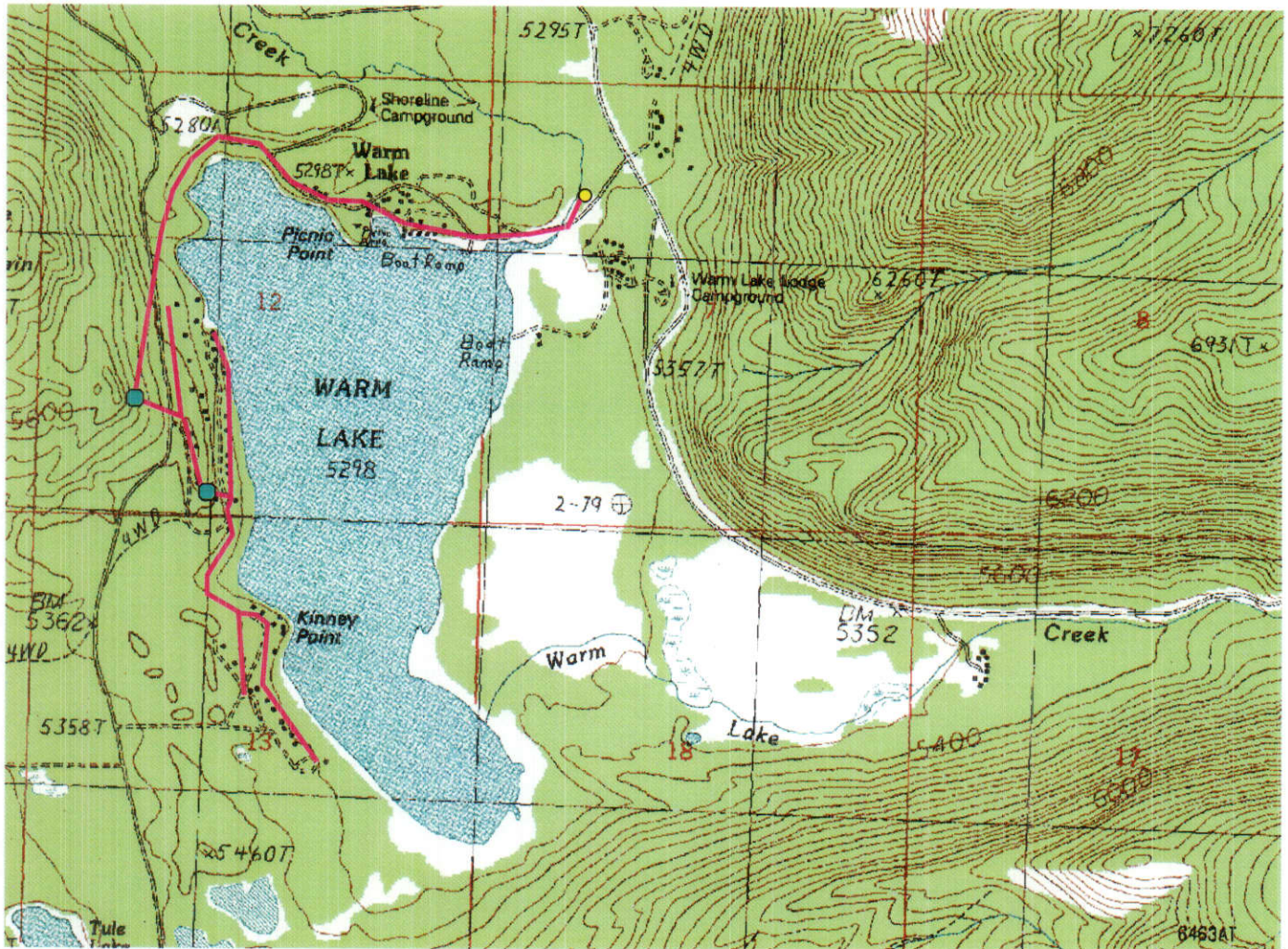
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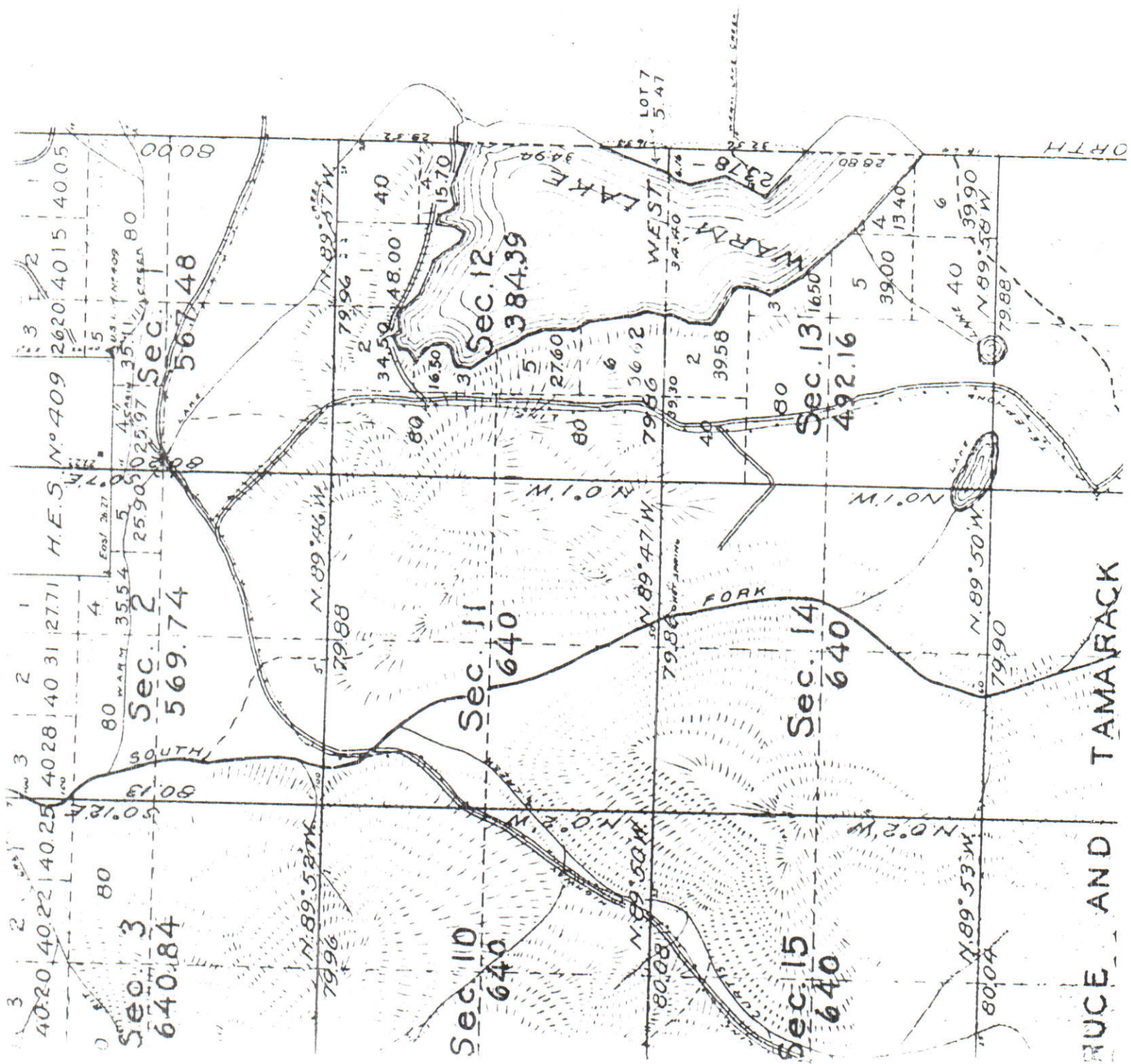


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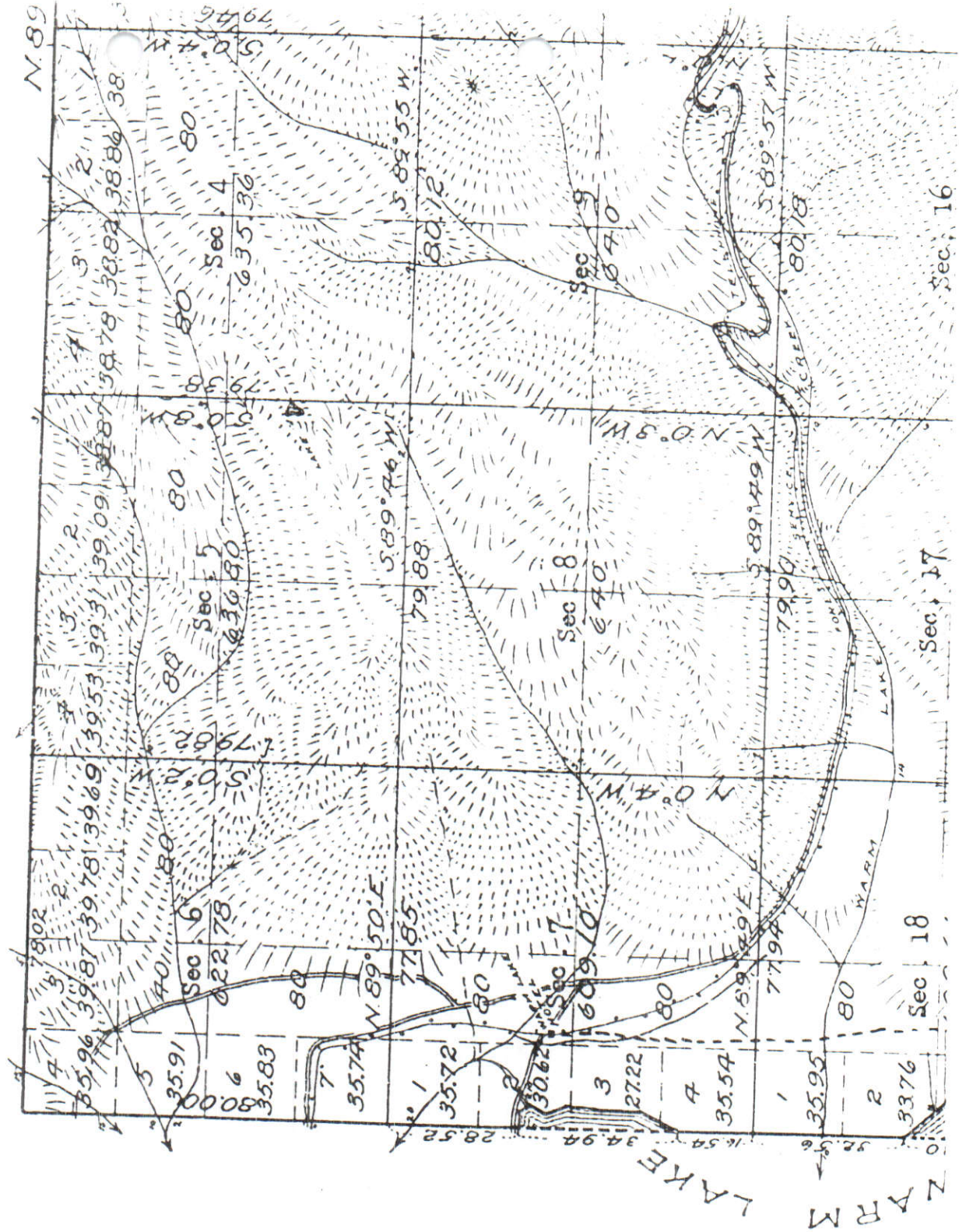
77-7337
T15N R6E S12 & S13
T15N R7E S7



- Storage Tanks
- System Mainline
- Well



TOWNSHIP N^o 15 NORTH, RANGE N^o 7

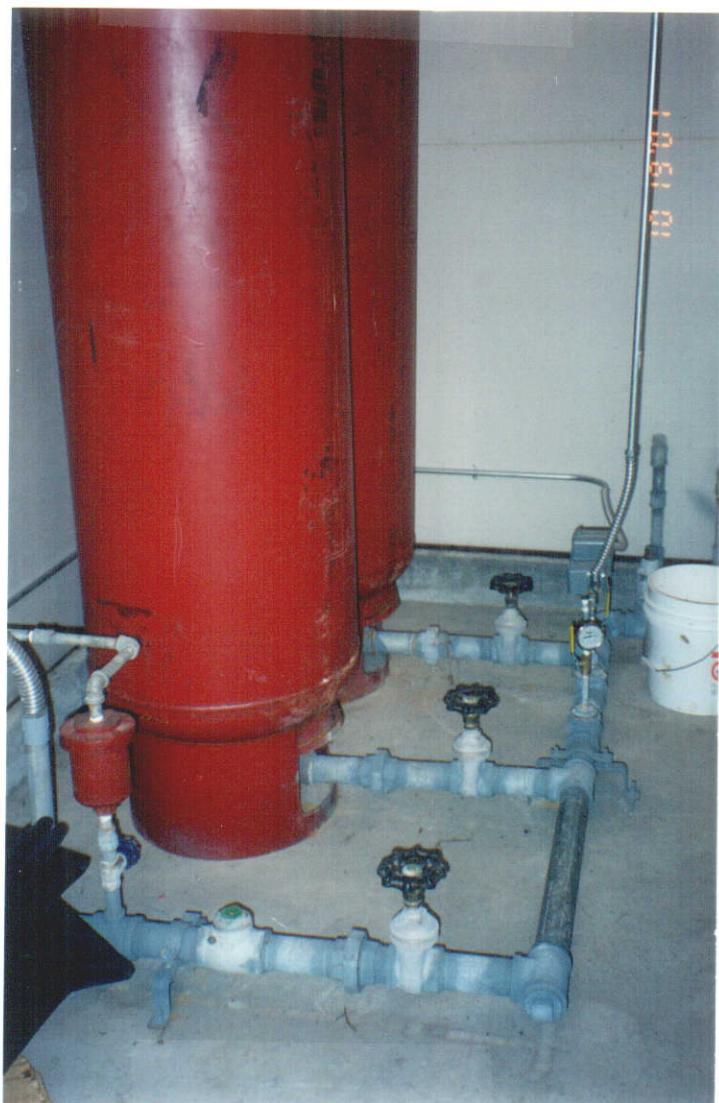




P/O
 15N 7E 57
 SWNW
 Gov Lt 2

Inside
 Pump House
 ↙

storage
 ↓





Warm Lake
Lodge

North Shore
Lodge



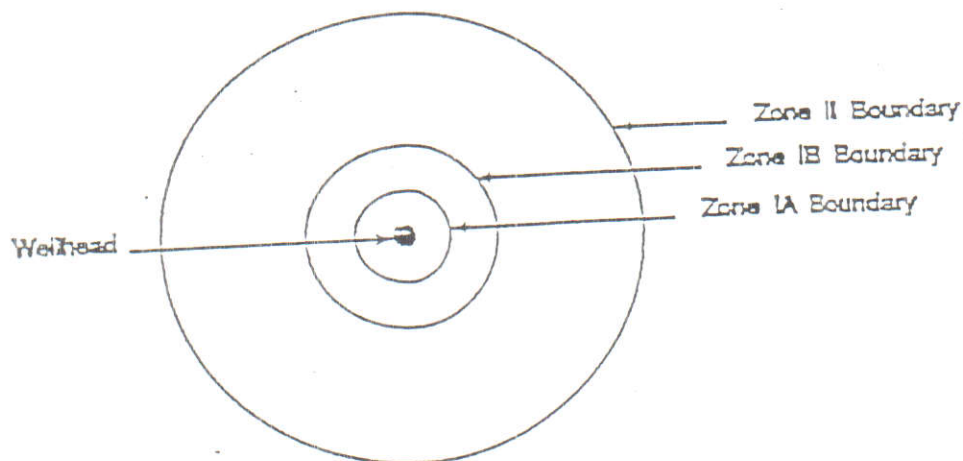


Figure 1 - Wellhead protection zones for basic wellhead protection areas

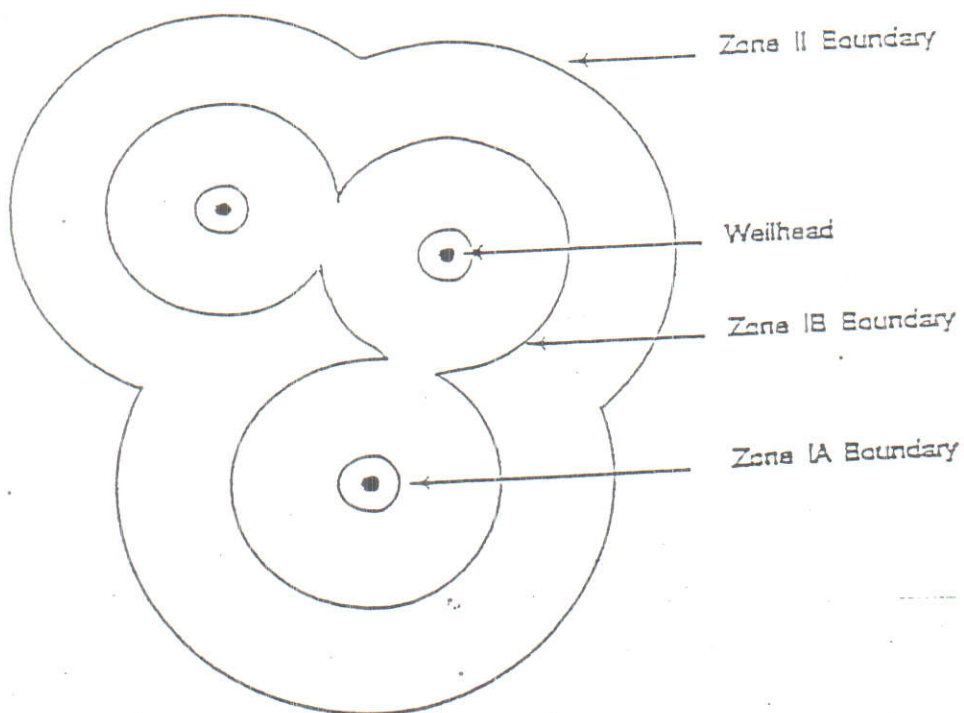


Figure 2 - Wellfield concept using the basic delineation approach

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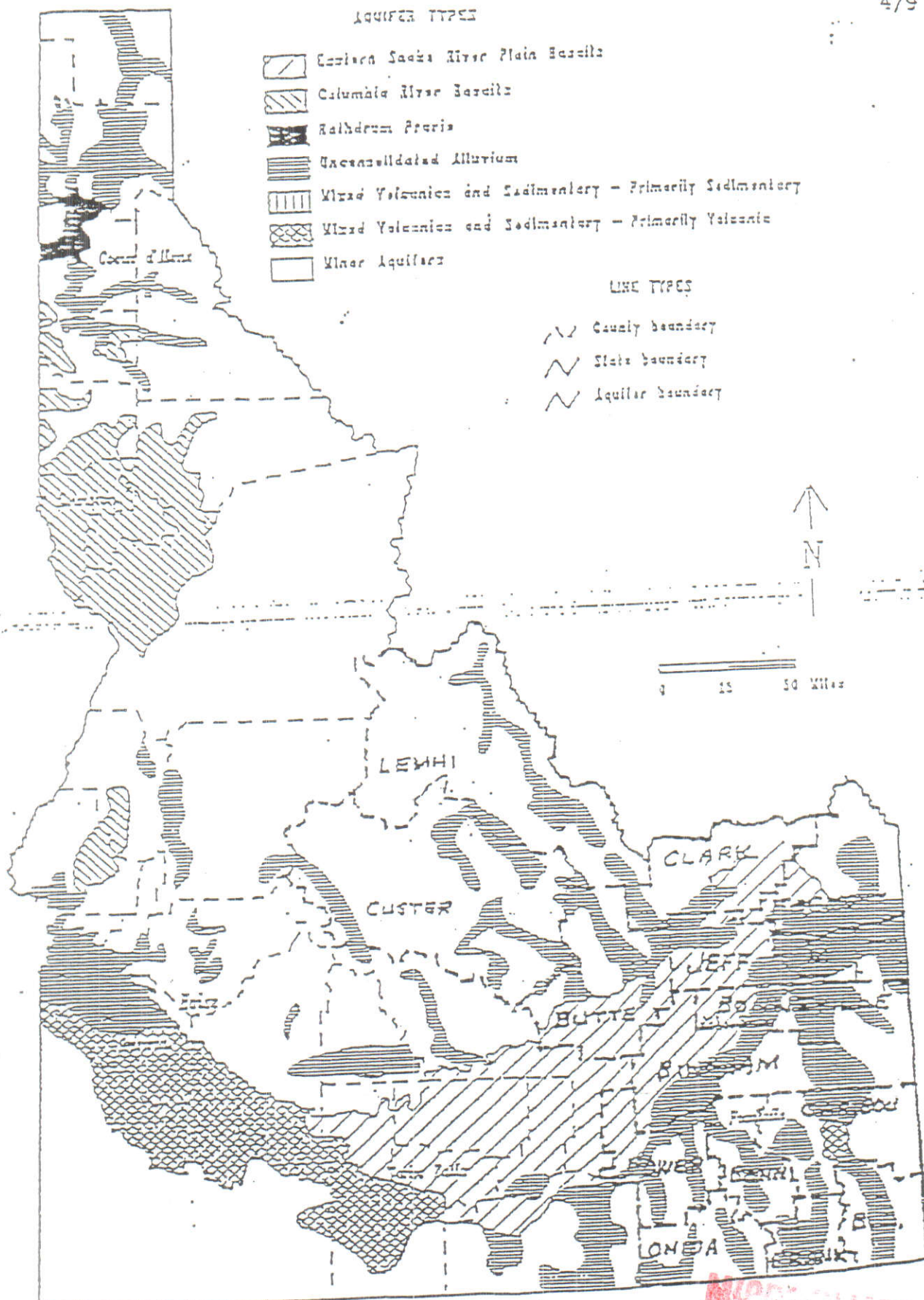


Figure 2.18a. Aquifer types in Idaho.
 (Copied from Well Head Protection in Idaho; sponsored by IDWR-DEQ,
 in cooperation with Idaho Water Resources Institute, Univ. of Idaho.)

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7/94

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SEP 01 1999

FOR OFFICE USE ONLY

Amt. of Fee \$: 100.00Receipt No. C076447Receipt By: K. LYNDDate Received: 9.2.99

Department of Water Resources

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

PROOF OF BENEFICIAL USE

The Idaho Department of Water Resources considers this form a statement that the permit holder(s) has/have completed all development that will occur under this permit and that water has been applied according to the provisions of the permit for the beneficial use(s) described below. This form must be accompanied by a license examination fee, when necessary, or be accompanied by a completed field examination report prepared by a certified water right examiner who has been appointed by the department.

- Permit No. 77-07337 Telephone No. 208-375-7961
- Name(s) of Permit Holder(s): WARM LAKE RECREATIONAL WATER DISTRICT
- Mailing Address: 5837 N. OASIS DR. BOISE ID - 83714
- Source of Water: GROUNDWATER If GROUNDWATER (well), Date Drilled: mo. 10 / yr. 94
 - Well Driller: CISTRIN WELL DRILLING Drilling Permit Number: 77-94-C0001-000
 - OPTIONAL:
Pump Horsepower: 7 1/2 Pressure (psi): 135 Dynamic pumping level (ft): 245
- Use(s) (as authorized by the water right permit):
Domestic (No. of households): 52 Stockwater (No. and type of stock): NONE
Irrigation (No. of acres): NONE Other: _____
- Total rate of diversion and/or volume for which proof is submitted: .350 cfs OR _____ acre feet
- Measuring Device Requirement: (refer to the approval conditions on your permit and respond accordingly)
(This question is not optional. Please check either yes or no. Proofs returned not checked accordingly, will be considered incomplete)

Measuring Device: Is a measuring device required?	Yes _____ or No <u>✓</u>
Has the measuring device been installed?	Yes _____ or No <u>✓</u>
Flow Measurement Port: Is a flow measurement port required?	Yes _____ or No <u>✓</u>
Has the measurement port been installed?	Yes _____ or No <u>✓</u>
- Fee Enclosed: \$ 100.00 (See Fee Schedule on back of the instructions for filing proof of beneficial use)
- Person to contact to accompany the Department representative during field examination of the water system.
Name: KEN HUNTER Telephone Number: 208-376-7692
Address: 10850 W Smoke Ranch Dr, Boise 83709
- The information given on this form is my true statement of the extent to which the above numbered permit has been developed and I relinquish any undeveloped portion of the permit to the State of Idaho.

Signature of permit holder:

KR Hunter

(include your title, if on behalf of company or organization)

Date:

8/25/95

JAN 31 2000

State of Idaho
Department of Water Resources
Permit To Appropriate Water

NO. 77-07337

Proposed Priority: June 6, 1994

Maximum Diversion Rate:

0.35 CFS

This is to certify, that **WARM LAKE RECREATIONAL WATER DISTRICT**
9900 LOS RANCHITOS
BOISE ID 83709

has applied for a permit to appropriate water from: **GROUNDWATER**

and a permit is **APPROVED** for development of water as follows:

BENEFICIAL USE

PERIOD OF USE

RATE OF DIVERSION

DOMESTIC

01/01 to 12/31

0.35 CFS

LOCATION OF POINT(S) OF DIVERSION:

Lot 3(SENW), Sec. 12, Township 15N, Range 06E
Lot 2(NENW), Sec. 13, Township 15N, Range 06E
Lot 5(NWSE), Sec. 13, Township 15N, Range 06E
Lot 2(SWNW), Sec. 7, Township 15N, Range 07E
VALLEY County

PLACE OF USE: DOMESTIC

TWN RGE SEC

15N 06E 12

NENE

Lot 1(NWNE)

Lot 1(SWNE)

Lot 4(ENE)

13 Lot 2(NWNE)

Lot 3(SWNE)

Lot 5(NWSE)

07E 7 Lot 2(SWNW)

SENE

CONDITIONS/REMARKS:

1. Proof of construction of works and application of water to beneficial use shall be submitted on or before **September 1, 1999**.
2. Subject to all prior water rights.
3. Project construction shall commence within one year from the date of permit issuance and shall proceed diligently to completion unless it can be shown to the satisfaction of the Director of the Department of Water Resources that delays were due to circumstances over which permit holder had no control.
4. Prior to diversion of water under this approval, the right holder shall provide a means of measurement acceptable to the Department from all authorized points of diversion which will allow determination of the total rate of diversion.
5. Right holder shall comply with the drilling permit requirements of Section 42-235, Idaho Code.
6. Construction of the well must comply with Idaho well construction standards.
7. Two points of diversion are located within Lot 2 (SWNW), S07, T15N, R07E.
8. Domestic use is for 2 lodges and 52 homes.
9. The domestic use authorized under this permit shall not exceed 13,000 gallons per day per dwelling in accordance with Section 42-111, Idaho Code.

NOV 01 1994

State of Idaho
Department of Water Resources

Permit To Appropriate Water

NO. 77-07337

This permit is issued pursuant to the provisions of Section 42-204, Idaho Code.
Witness the signature of the Director, affixed at Boise, this

6th day of September, 1994.

R. Keith Higginson
for R. Keith Higginson, Director

NOV 01 1994

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JUN 06 1994

Department of Water Resources

Ident. No. 77-07337

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

RECEIVED

APPLICATION FOR PERMIT

JUN 06 1994

To appropriate the public waters of the State of Idaho

WATER RESOURCES
WESTERN REGION

1. Name: WARM LAKE RECREATIONAL WATER DISTRICT
Address: 9900 LOS RANCHITOS
BOISE ID 83709

208-376-7692

2. Source: GROUNDWATER

Trib. to:

3. Location of Point of Diversion: Lot 3(SENW), Sec. 12, Township 15N, Range 06E
Lot 2(NENW), Sec. 13, Township 15N, Range 06E
Lot 5(NWSE), Sec. 13, Township 15N, Range 06E
Lot 2(SWNW), Sec. 7, Township 15N, Range 07E
VALLEY County

4. Water will be used for the following purposes:

Purpose	From	To	CFS	(or)	AF
DOMESTIC	01/01	12/31	0.350		

5. Total quantity to be appropriated is:

0.350 CFS (and/or) AF

6. Proposed diverting works:

a. Description of ditches, flumes, pumps, headgates, etc.

b. Height of storage dam feet; active reservoir capacity
acre-feet; total reservoir capacity acre-feet; period of
year when water will be diverted to storage: to inclusive.

c. Proposed well diameter is inches; proposed depth of well is
feet.

d. Is groundwater with a temperature greater than 85F being sought? NO

e. If well is already drilled, when?

Drilling Firm

Well was drilled for

7. Time required for the completion of the works and application of
the water to the proposed beneficial use is 5 year(s).

8. Place of Use: DOMESTIC

TWN RGE SEC

15N 06E 12

NENE

Lot 1(NWNE)

Lot 1(SWNE)

Lot 4(ENE)

13 Lot 2(NWNE)

Lot 3(SWNE)

Lot 5(NWSE)

Department of Water Resources

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AUG 11 1994

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Place of Use: DOMESTIC

TWN RGE SEC
07E 7 Lot 2 (SWNW) SENW

9. a. Who owns the property at the point of diversion?
APPLICANT
b. Who owns the land to be irrigated or place of use?
APPLICANT
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:

Two points of diversion are located within Lot 2 (SWNW), S07,
T15N, R07E.
Domestic use is for 2 lodges and 52 homes.

11. Map of proposed point of diversion and place of use attached? [☒]

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.

Kennel Hunter
Applicant

Received by Czy Date 6/6/94 Time 3 PM Preliminary check by g

Fee \$ 45.00 Receipted by Czy #C030446 Date 6/ 6/1994

Publication prepared by At Date 6-29-94 Published in Star News
Long Valley Adv.

Publication approved _____ Date _____

Board of Directors + Officers :

Ken Hunter - Pres

John Catey - Sec

Sherrin Nelson - treas

Steve Carrondo - member

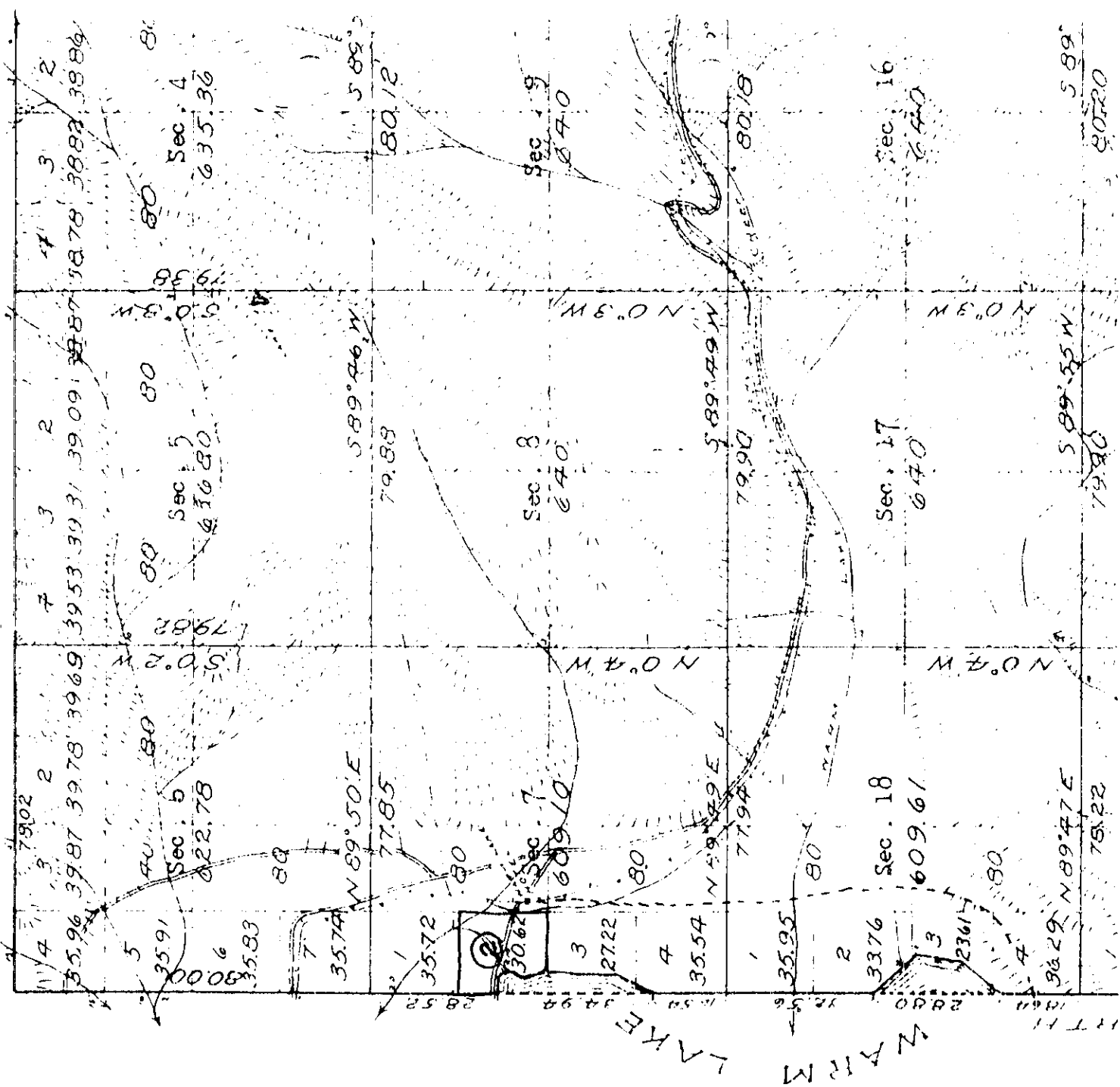
Jim Duorak - member

- per tel con w/ Ken Hunter 6/10/94

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NOV 01 1994

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[illegible]

FEB 19 2002

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

Department of Water Resources

A. GENERAL INFORMATION

Permit No 77-7337

1. Owner Warm Lake Recreational Water District Phone No. 375-7961

Current Address: 5837 N Oasis Dr. Boise ID 83714

2. Accompanied by: Ken Hunter EXAM DATE: 10/19/01

Address: 10850 W Smoke Ranch Dr. Boise 83709 Phone No. 376-7692

Relationship to Permit Holder: System Manager/Cabin Owner

3. Source: Ground water tributary to

B. OVERLAP REVIEW

1. Other water rights with the same place of use: 77-2056

2. Other water rights with the same point of diversion: 77-2056

C. DIVERSION AND DELIVERY SYSTEM

1. Point(s) of Diversion:

[illegible]

2. Place(s) of Use:

Indicate Method of Determination same as above

[illegible]

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

See attached GIS map

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

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

Y 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
		5	Submersible	Gold 25GS50	

*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:** Pump rated at 25 gpm

E. NARRATIVE/REMARKS/COMMENTS

A 6" well equipped with a 5 hp submersible pump supplies domestic water, via buried mainline, to 52 cabins and 2 lodges at Warm Lake. The distribution system has been installed since the 1940's for use of Chipmunk Creek water. The well was drilled because DEQ required a filtration system for use of the Creek and filtration systems were more expensive than drilling a well. Ken Hunter stated that the price of filtration systems has become more reasonable and that the users are currently looking at their options. Once a filtration system is chosen and installed, the well will be used as a back-up source.

32 private cabins and two lodges are plumbed directly into the water system. 10 public cabins are associated with each lodge. The public cabins do not use indoor plumbing. Approximately 50 patrons per day per lodge, including the public cabin dwellers, frequent the lodges. Warm

Lake Lodge is open year around. The North Shore Lodge is open from May 1 to November 1. The well is also only operated from May 1 to November 1. Warm Lake Lodge and others who snowmobile in use Creek water in the winter for domestic uses.

The only overlap is license 77-2056 for Chipmunk Creek. No other water rights are used. 77-7352 is a separate ground water system used for Shoreline campground and 77-7338 is a separate ground water system used for a Baptist Church campground.

The system mainline varies from 1.5" to 2.5" in size. It takes 135 psi to get the ground water to the storage tanks on the West side of the lake. Total storage capacity is 9700 gallons. The pump was installed by Dale Bowler and set at 245' inside the well. Dale stated that pumping capacity is 25 gpm.

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

F. FLOW CALCULATIONS

_____ Additional Computation Sheets Attached

Measured Method:

25 gpm = .06 cfs

Theoretical: $\frac{5\text{hp} \times 8.8 \times .7}{245 + 135 \times 2.31} = .06 \text{ cfs}$

Pump set at 245' per applicant

Pressure per applicant and pressure gage inside pump house

HP per Dale Bowler and Applicant

G. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

 $V_{I.R} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) =$ $V_{D.R} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation Season}) \times 1.9835 =$ $V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} =$

2. Volume Calculations for Other Uses:

REQUIRED VOLUME32 Private Cabins: $.6 \times 32 = 19.2 \text{ afa}$

Two Lodges: 50 patrons/day/lodge @ 10 gpd/patron x 184 days / 325850 = .6 afa

 $19.2 + .6 = 19.8 \text{ afa}$ **POTENTIAL VOLUME** $1.9835 \times .06 \text{ cfs} \times 184 \text{ days} = 21.9 \text{ afa system capacity}$ **H. RECOMMENDATIONS**

1. Recommended Amounts

Beneficial Use	Period Of Use		Rate Of Diversion Q (CFS)	Annual Volume V (AFA)
	From	To		
Domestic	5/1	11/1	.06	19.8
TOTAL			.06 cfs	19.8 afa

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

Lori Graves –Senior Agent

Field Examiner's Name

Lori Graves

Date

1/9/02

Reviewer

Date

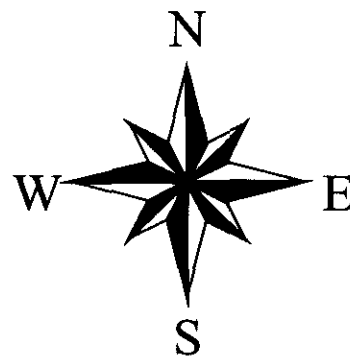
SEAL

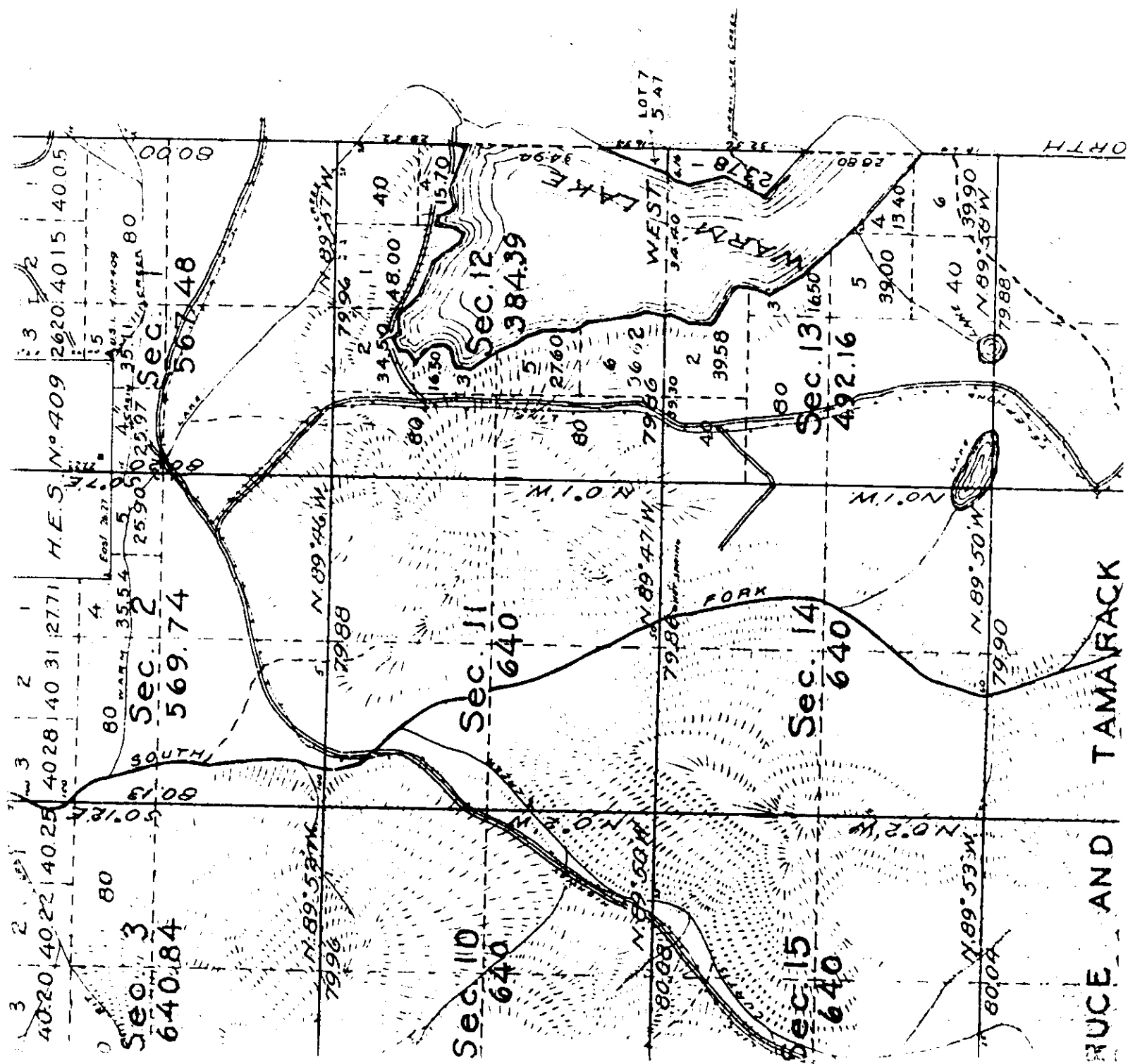
77-7337
T15N R6E S12 & S13
T15N R7E S7



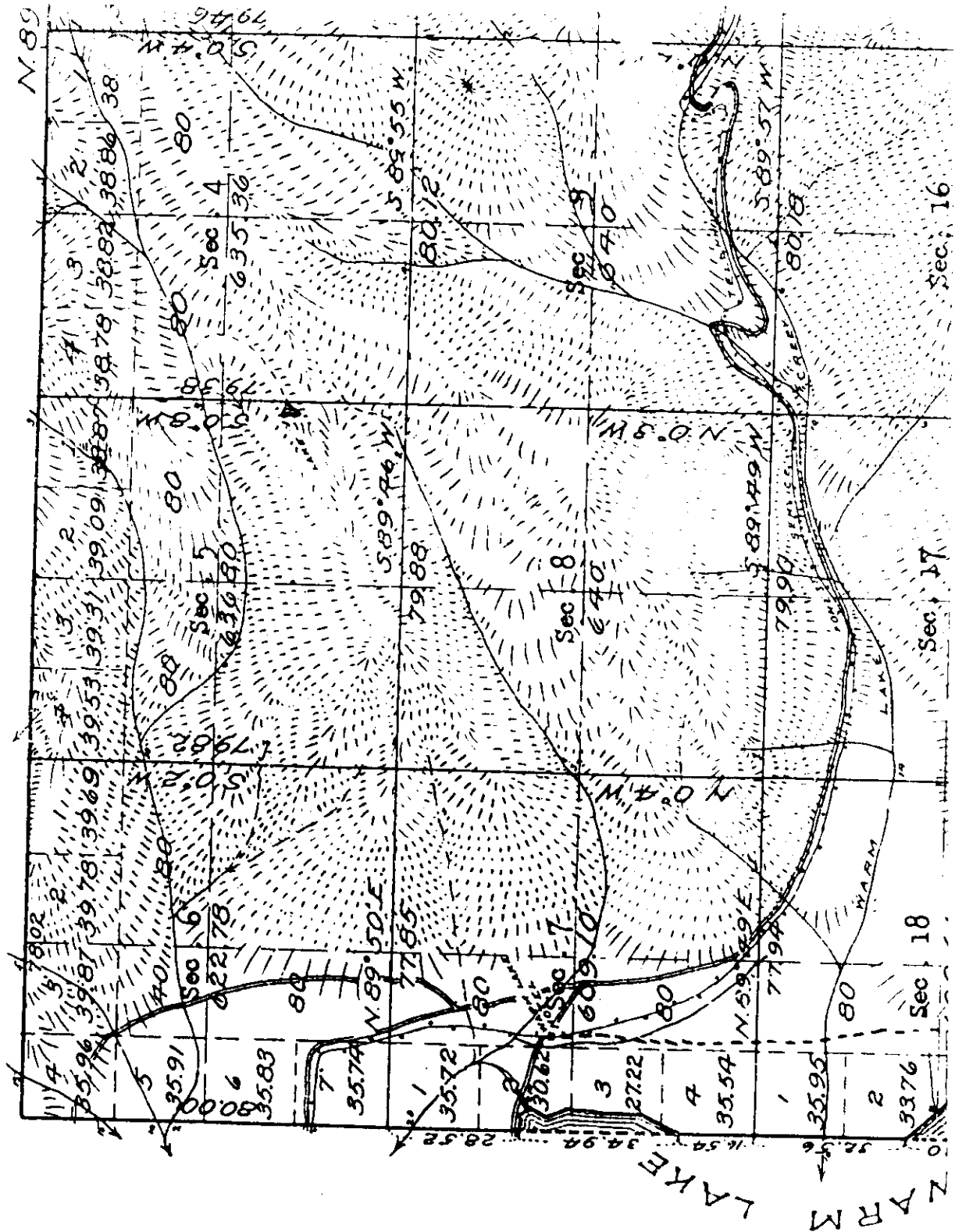
0.7 0 0.7 1.4 Miles

● Storage Tanks
— System Mainline
○ Well





TOWNSHIP N^o 15 NORTH, RANGE N^o 7



IDAHO DEPARTMENT OF WATER RESOURCES

WELL INSPECTION FORM

1. DRILLING PERMIT NO: 77-94-C-0001 OTHER APPLICABLE NO: 77-7337
2. OWNER: Warm Lake Recreational Phone: _____
Address: Boise
3. WELL LOCATION: Twp 15N, Rge. 7E, Sec. 7, SW 1/4 NW 1/4
County Valley (Provide sketch map and photo on reverse.)
4. DRILLER: Gestuin Lic. No. 408
When Drilled? 1994
5. WELL CONSTRUCTION:
Casing Diameter 6 inches Water tight cap? ☒ Yes ☐ No Access Port: ☒ Yes ☐ No
Casing $\geq$ 12 inches above ground? ☒ Yes ☐ No - Describe _____
Depth of Casing 267 ft. Method Drilled air rotary
Condition of Well Casing: ☒ Good ☐ Fair ☐ Poor Describe _____
Control Valve? ☒ Yes ☐ No Pressure Gauge: ☒ Yes ☐ No
Condition of Piping and Valving good
Auger to a depth of _____ ft. Evidence of Annular Seal ☐ Yes ☐ No
Are there obvious construction problems that may be a source for contamination or waste of water?
☐ Yes ☒ No (Describe in Remarks and Attach Photo - On Reverse)
6. HYDROLOGIC INFORMATION:
Depth to Static Water 58 ft. Water Temperature 49.5 °F
Flowing Artesian ☐ Yes ☒ No Pressure: _____ (psi)
Water Sample Taken? ☐ Yes ☒ No If yes, describe purpose _____
Water Quality Measurements/Observations (Describe) _____
7. WELL USE:
☒ Domestic ☐ Irrigation ☐ Stock
☐ Test ☐ Municipal ☐ Industrial
☐ Abandoned ☐ Waste Disposal/Injection ☐ Not Used
☐ Other: _____

8. POSSIBLE CONTAMINATION SOURCES:

Is there evidence of Contamination? ☐ Yes ☒ No

If yes, is there a check-valve present? ☐ Yes ☒ No

Is there a possible source of contamination nearby? ☐ Yes ☒ No

If yes, what Type? _____

How far away from the well is this source? _____

9. REMARKS:


Signature of Dept. Representative & Title

10/19/01
Inspection Date

PHOTOS, DRAWINGS, OTHER ATTACHMENTS:

IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORTUse Typewriter
or
Ball Point Pen

NOV 02 1994

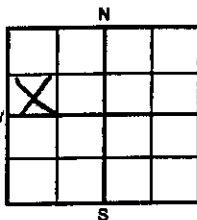
1. DRILLING PERMIT NO. 77-94-C-0001-000
Other IDWR No. 77-07337

2. OWNER:

Name WARM LAKE RECREATIONAL WATER USERS
Address 10850 SMOKE RANCH DRIVE
City BOISE State ID. Zip 83709

3. LOCATION OF WELL by legal description:

Sketch map location must agree with written location.

Twp. 15 North ☒ or South ☐
Rge. 7 East ☒ or West ☐
Sec. 7 1/4 SW 1/4 NW 1/4
Gov't Lot _____ County VALLEYAddress of Well Site 205 NORTH SHORE LINE
City WARM LAKE

(Give at least name of road + Distance to Road or Landmark)

Lt. _____ Blk. _____ Sub. Name FOREST SERVICE
PROPERTY

4. PROPOSED USE:

- ☐
- Domestic
- ☐
- Municipal
- ☐
- Monitor
- ☐
- Irrigation
-
- ☐
- Thermal
- ☐
- Injection
- ☒
- Other
- MULTIPLE OWNERSHIP

5. TYPE OF WORK

- ☒
- New Well
- ☐
- Modify or Repair
- ☐
- Replacement
- ☐
- Abandonment

6. DRILL METHOD

- ☐
- Mud Rotary
- ☒
- Air Rotary
- ☐
- Cable
- ☐
- Other _____

7. SEALING PROCEDURES

SEAL/FILTER PACK		AMOUNT		METHOD
Material	From	To	Sacks or Pounds	
BENTONITE GROUT	48	15	800 LBS.	10" TEMPORARY CASING SET, BENTONITE PLACED FROM TOP DOWN
BENTONITE CHIPS	15	0	1,050 LBS.	

Was drive shoe used? ☒ Y ☐ NWas drive shoe seal tested? ☒ Y ☐ N How? AIR

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
6"	+2 1/2	245	.250	STEEL	☒	☐	☒	☐
5	-240	267	.258	STEEL	☐	☒	☒	☐

Length of Headpipe _____ Length of Tailpipe _____

9. PERFORATIONS/SCREENS

- ☒
- Perforations Method
- 6" CASING - KNIFE 5" CASING - TOUCH
-
- ☐
- Screens Screen Type _____

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
152	167	1/2 x 1	75	6"	STEEL	☒	☐
194	203	1/2 x 1	135	6"	STEEL	☒	☐
210	220	1/2 x 1	150	6"	STEEL	☒	☐
235	236	1/2 x 1	75	6"	STEEL	☒	☒
252	266	1/2 x 6	65	5"	STEEL	☒	☒

10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

58 ft. below ground Artesian pressure _____ lb.
Depth flow encountered _____ ft. Describe access port or control devices: _____

11. WELL TESTS:

☒ Pump ☐ Bailor ☐ Flowing Artesian

Yield gal./min.	Drawdown	Pumping Level	Time
50	62'		5.85 hrs
100		245	2.50 hrs

Water Temp. 49.5° Bottom hole temp. 49.5°Water Quality test or comments: 900 d

12. LITHOLOGIC LOG: (Describe repairs or abandonment)

Bore Dia.	From	To	Remarks: Lithology, Water Quality & Temperature	Y	N
10	0	2	BROWN SANDY LOAM W/ Boulders		
10	2	42	BROWN SAND, GRAVEL + Boulders		
10	42	49	BROWN SAND, GRAVEL + LARGER Boulders		
6	49	51	BROWN SAND, GRAVEL + CLAY mixed		
6	51	54	BROWN SAND + CLAY mixed		
6	54	93	BROWN SAND + GRAVEL w/ small Boulder		
6	93	94	Blue GRAY SAND + GRAVEL w/ Blue CLAY		
6	94	96	BROWN STICKY CLAY		
6	96	101	BROWN SAND w/ CLAY mixed		
6	101	102	BROWN STICKY CLAY		
6	102	104	GREEN STICKY CLAY		
6	104	107	BROWN STICKY CLAY		
6	107	109	BROWN SAND		
6	109	115	DARK BROWN CLAY w/ SAND STREAKS		
6	115	121	DARK BROWN STICKY CLAY		
6	121	131	BROWN SAND 2 1/2 gpm X		
6	131	135	BROWN + GREEN CLAY w/ SAND STREAKS		
6	135	145	BROWN STICKY CLAY		
6	145	148	BROWN SAND 1 1/2 to 2 gpm X		
6	148	151	BROWN CLAY		
6	151	164	BROWN + GRAY SAND 11 gpm X		
6	164	165	BROWN CLAY		
6	165	167	BROWN + GRAY SAND		
6	167	171	BROWN CLAY		
6	171	172	BROWN + GRAY SAND		
6	172	174	BROWN CLAY		
6	174	175	BROWN + GRAY SAND		
6	175	183	BROWN CLAY		
6	183	194	BROWN CLAYSTONE		
6	194	196	BROWN + GRAY SAND X		
6	196	198	BROWN CLAY		
6	198	203	BROWN + GRAY SAND X		
6	203	207	BROWN CLAY		

Completed Depth _____ (Measurable)

Date: Started _____ Completed _____

13. DRILLER'S CERTIFICATION

I/We certify that all minimum well construction standards were complied with at the time the rig was removed.

Firm Name GESTRIN Well Drilling Firm No. 408Firm Official Robert W. Graham Date 10-26-94

and _____

Supervisor or Operator _____ Date _____

(Sign once if Firm Official & Operator)

1-2

1. DRILLING PERMIT NO. 77-94-C-0001-000
Other IDWR No. 77-07337

2. OWNER:

Name WARM LAKE RECREATIONAL WATER USERS
Address 10850 SMOKE RANCH DRIVE
City BOISE State ID. Zip 83709

3. LOCATION OF WELL by legal description:

Sketch map location must agree with written location.

4. PROPOSED USE:

☐ Domestic ☐ Municipal ☐ Monitor ☐ Irrigation
☐ Thermal ☐ Injection ☐ Other _____

5. TYPE OF WORK

☐ New Well ☐ Modify or Repair ☐ Replacement ☐ Abandonment

6. DRILL METHOD

☐ Mud Rotary ☐ Air Rotary ☐ Cable ☐ Other_____

7. SEALING PROCEDURES

SEAL/FILTER PACK			AMOUNT	METHOD
Material	From	To	Sacks or Pounds	

Was drive shoe used? Y ☐ N ☐

Was drive shoe seal tested? Y ☐ N ☐ How?

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
					☐	☐	☐	☐
					☐	☐	☐	☐
					☐	☐	☐	☐

Length of Headpipe _____ Length of Tailpipe _____

9. PERFORATIONS/SCREENS

☐ Perforations Method _____

☐ Screens Screen Type _____

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
						☐	☐
						☐	☐
						☐	☐

10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

_____ ft. below ground Artesian pressure _____ lb.
Depth flow encountered _____ ft. Describe access port or
control devices:

11. WELL TESTS:

☐ Pump ☐ Bailer ☐ Air ☐ Flowing Artesian

Yield gal./min.	Drawdown	Pumping Level	Time

Water Temp. _____ Bottom hole temp. _____

Water Quality test or comments: _____

12. LITHOLOGIC LOG: (Describe repairs or abandonment)

[illegible]

Completed Depth 265 (Measurable)

Date: Started 10-12-94 Completed 10-25-94

13. DRILLER'S CERTIFICATION

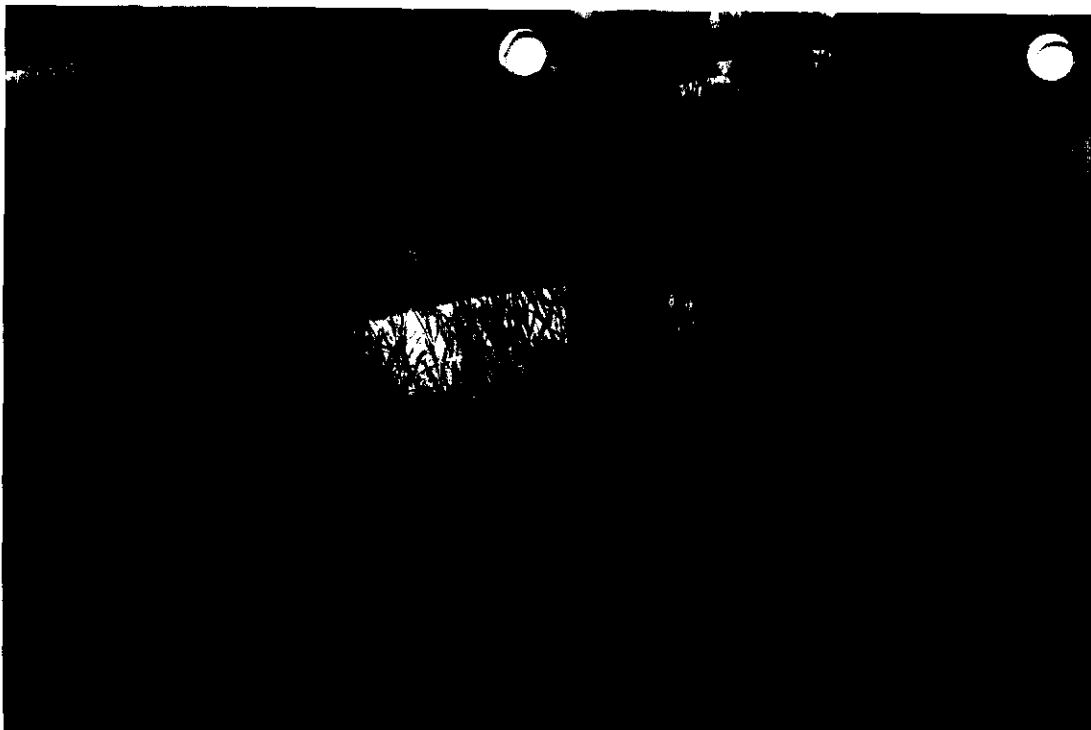
I/We certify that all minimum well construction standards were complied with at the time the rig was removed.

Firm Name GESTRIN well DRILLING Firm No. 408

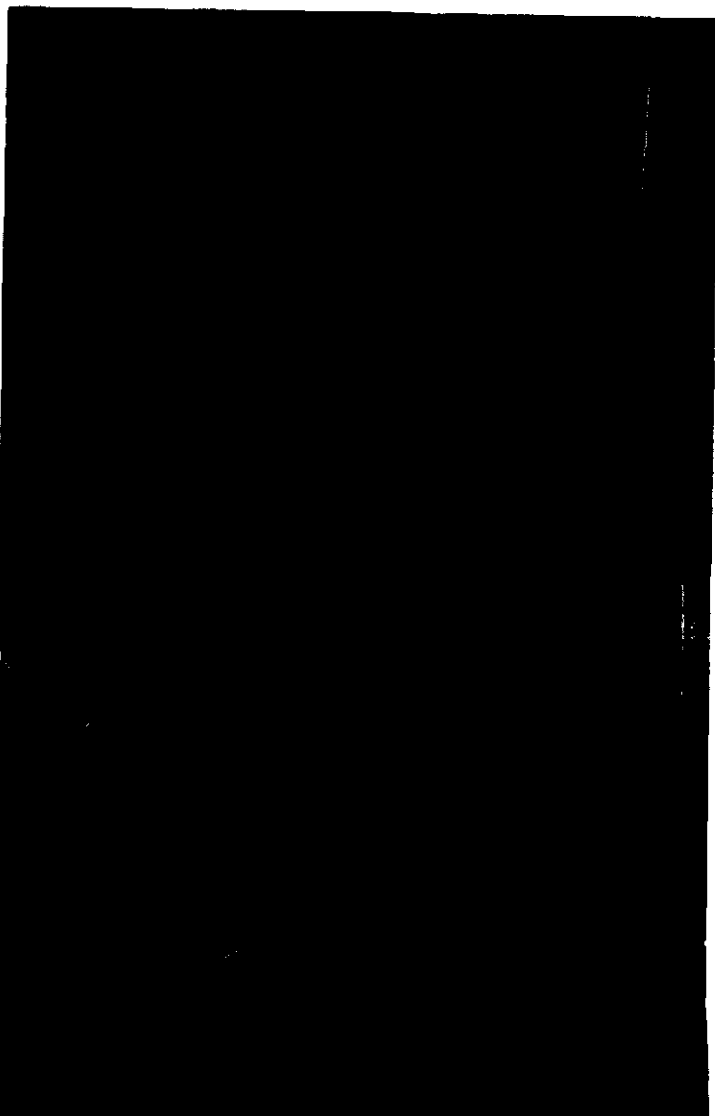
Firm Official Robert W. Hunter Date 10-26-94

Supervisor or Operator _____ Date _____

(Sign once if Firm Official & Operator)

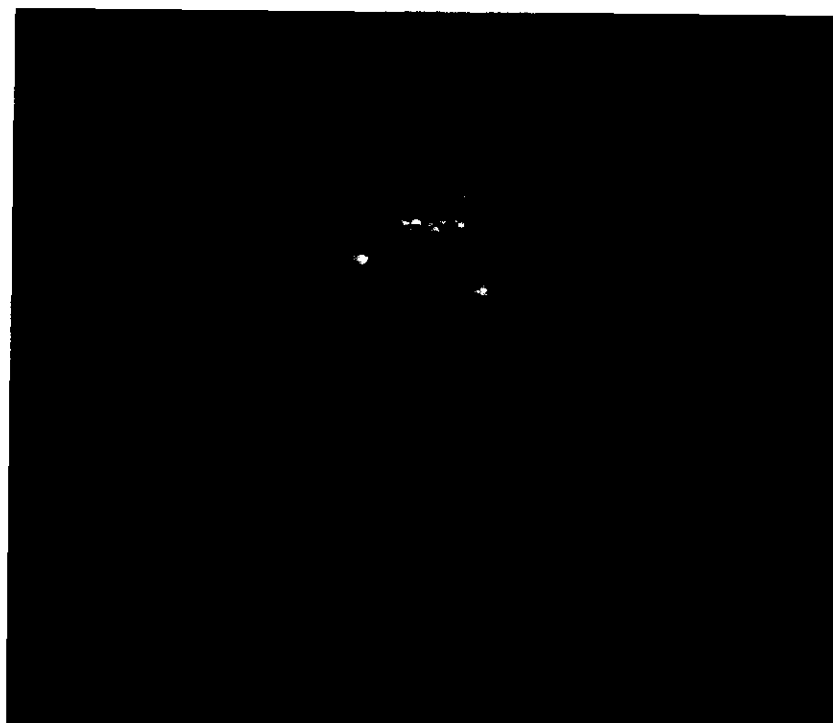


P/D
15N 7E 57
SWNW
Gov Lt 2



Inside
Pump House
←

storage
↓





Warm Lake
Lodge

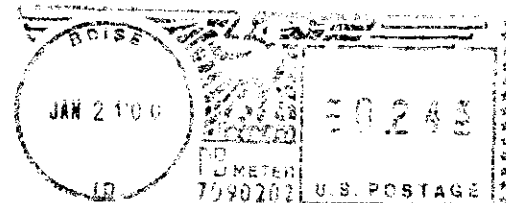
North Shore
Lodge



STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
(North Orchard Street
L , Idaho 83706-2237

RETURN SERVICE
REQUESTED

PRESORTED
FIRST CLASS



RECEIVED

FEB - 3 2000

Department of Water Resources

UNDELIVERED
NO FOR



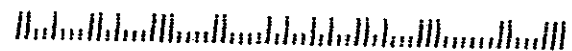
*RD. returned in
error. Resent on File 77-07337
2.7.00 ket*

Gret adolphson

WAHM337 837162018 IN 08 01/26/00
RETURN TO SENDER

NO FORWARD ORDER ON FILE
UNABLE TO FORWARD
UNABLE TO SENDER

AUMS 83706/2237 83714



CA



State of Idaho

DEPARTMENT OF WATER RESOURCES

1301 North Orchard Street, P.O. Box 83720, Boise, Idaho 83720-0098

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

January 20, 2000

DIRK KEMPTHORNE
GOVERNOR

KARL J. DREHER
DIRECTOR

WARM LAKE RECREATIONAL WATER DISTRICT
5837 N OASIS DR
BOISE ID 83714

PROOF ACKNOWLEDGMENT LETTER

RE: PERMIT NO. 77-07337

Dear Permit Holder:

The department acknowledges receipt of the proof of beneficial use form submitted for the above referenced permit. The next step in the process of developing a water right is for the department to conduct a field examination to determine and confirm the use being made of the water.

Be advised that Section 42-248, Idaho Code, requires you or the owner of this water right to maintain current ownership and address records on file with the department. Forms to file a change of ownership of a water right and/or a change in the address of the water right owner are available from any department office.

If you have questions concerning the field examination, please contact the **WESTERN** Regional Office of the department in Boise at (208) 334-2190.

Sincerely,

Kari Lynn Townsend
Secretary

c: IDWR - Regional Office

MICROFILMED
JAN 31 2000

**ANALYSIS SHEET
FOR
PROOF OF BENEFICIAL USE**

Permit No. 77-07337 Reviewed by VSA Date 1-19-00

GENERAL CONSIDERATIONS

yes Name same as permit?
NO Address same as permit?
yes Proof timely received?
If not, complete calculation below.

TYPES OF USE

Dom

Correct Uses? _____

SOURCE OF WATER

_____ Surface water source

✓ Ground water source

_____ Drilling permit required?

_____ Copy in the file? Drilling Permit No. _____

_____ Amount paid for permit _____ Correct?

_____ Well log in the file?

LICENSE EXAMINATION FEE

yes Required?
100 Amount Submitted
yes Correct?

MEASURING DEVICE

NO Required?
_____ Installed?
_____ Waiver requested?

PRIORITY CALCULATION

Date proof received	_____	_____
Date proof due	_____	_____
No. of days late	_____	_____
Priority Date	_____	_____
New Priority Date	_____	_____

DEFICIENCIES OR ACTION ITEMS

none / ack proof

DATA ENTRY

New Address 5837 N. Oasis Dr Proof Made 9-1-99
Boise, Id 83714

June 30, 1999

WARM LAKE RECREATIONAL WATER DISTRICT
9900 LOS RANCHITOS
BOISE ID 83709

PROOF DUE NOTICE

RE: PERMIT NO. 77-07337

Dear Permit Holder:

One of the conditions of approval of the above referenced water permit was that proof of the extent of your beneficial use must be submitted to this office on or before September 1, 1999. (See last page of your approved permit or your last approved extension request.) Enclosed is a form which when accompanied by the license examination fee or a complete field examination report prepared by a certified water right examiner may be used to submit the required proof.

If you have not fully completed your project, and you or a previous owner of this permit have not received a prior extension of time, you may request an extension of time if the delay is for reasonable cause as provided in Section 42-204, Idaho Code. If you have been prevented from proceeding by a governmental agency or by litigation which might bring title to the water in question, more than one extension of time can be granted. An extension of time request form is enclosed for your convenience.

Either an acceptable proof of beneficial use submittal or an acceptable request for an extension of time must be received by this department on or before the above described proof due date. If neither is received, the department will send you a lapse notice. Within sixty (60) days of the mailing of the lapse notice, the permit will no longer be of any force nor effect.

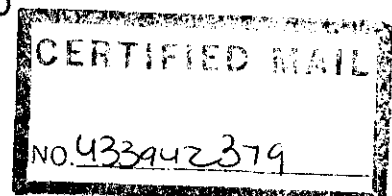
SINCERELY,

JULIE L. YARBROUGH
Senior Secretary

Enclosures

MICROFILMED

JAN 31 2000



WELL DRILLER'S REPORT

Use Typewriter
or
Ball Point PenRECEIVED
NOV 02 1994

FEB 28 1995

11. WELL TESTS:

WATER RESOURCES
WESTERN REGION

Flowing Artesian

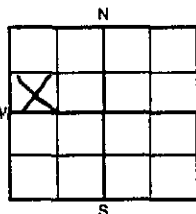
1. DRILLING PERMIT NO. 77-94-C-0001-000
Other IDWR No. 77-07337

2. OWNER:

Name WARM LAKE RECREATIONAL WATER USERS
Address 10850 SMOKE RANCH DRIVE
City Boise State Id. Zip 83709

3. LOCATION OF WELL by legal description:

Sketch map location must agree with written location.

Twp. 15 North ☒ or South ☐
Rge. 7 East ☒ or West ☐
Sec. 7 1/4 SW 1/4 NW 1/4
Gov't Lot _____ County VALLEYAddress of Well Site 205 NORTH SHORE LINECity WARM LAKE

(Give at least name of road + Distance to Road or Landmark)

Lt. _____ Blk. _____ Sub. Name FOREST SERVICE
PROPERTY

4. PROPOSED USE:

☐ Domestic ☐ Municipal ☐ Monitor ☐ Irrigation
☐ Thermal ☐ Injection ☒ Other MULTIPLE OWNERSHIP

5. TYPE OF WORK

☒ New Well ☐ Modify or Repair ☐ Replacement ☐ Abandonment

6. DRILL METHOD

☐ Mud Rotary ☒ Air Rotary ☐ Cable ☐ Other _____

7. SEALING PROCEDURES

SEAL/FILTER PACK			AMOUNT		METHOD
Material	From	To	Sacks or Pounds		
BENTONITE GROUT	48	15	800 LBS.	SAT.	10" TEMPORARY CASING SAT. BENTONITE PLACED FROM TOP DOWN
BENTONITE CHIPS	15	0	1,050 LBS.		

Was drive shoe used? ☒ Y ☐ NWas drive shoe seal tested? ☒ Y ☐ N How? AIR

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
6"	+2 1/2	245	.260	STEEL	☒	☐	☒	☐
5	-240	267	.258	STEEL	☐	☒	☒	☐

Length of Headpipe _____ Length of Tailpipe _____

9. PERFORATIONS/SCREENS

☒ Perforations Method 6" CASING - KNIFE 5" CASING - TAP
☐ Screens Screen Type _____

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
152	167	1/2 x 1	75	6"	STEEL	☒	☐
194	203	1/2 x 1	135	6"	STEEL	☒	☐
210	220	1/2 x 1	150	6"	STEEL	☒	☐
225	230	1/2 x 1	75	6"	STEEL	☒	☒
252	266	1/2 x 6	65	5"	STEEL	☒	☒

10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

58 ft. below ground Artesian pressure _____ lb.

Depth flow encountered _____ ft. Describe access port or control devices: _____

Yield gal./min.	Drawdown	Pumping Level	Time
50	62'		5.85 hrs
100		245	2.50 hrs

Water Temp. 49.5° Bottom hole temp. 49.5°Water Quality test or comments: good

12. LITHOLOGIC LOG: (Describe repairs or abandonment)

Bore Dia.	From	To	Remarks: Lithology, Water Quality & Temperature	Y	N
10	0	2	BROWN SANDY LOAM w/ Boulders		
10	2	42	BROWN SAND, GRAVEL + Boulders		
10	42	49	BROWN SAND, GRAVEL + LARGER Boulders		
6	49	51	BROWN SAND, GRAVEL + CLAY mixed		
6	51	54	BROWN SAND + CLAY mixed		
6	54	93	BROWN SAND + GRAVEL w/ small Boulders		
6	93	94	Blue GRAY SAND + GRAVEL w/ clay		
6	94	96	BROWN STICKY CLAY		
6	96	101	BROWN SAND w/ CLAY mixed		
6	101	102	BROWN STICKY CLAY		
6	102	104	GREEN STICKY CLAY		
6	104	107	BROWN STICKY CLAY		
6	107	109	BROWN SAND		
6	109	115	DARK BROWN CLAY w/ SAND STREAKS		
6	115	121	DARK BROWN STICKY CLAY		
6	121	131	BROWN SAND 2 1/2 gpm X		
6	131	135	BROWN + GREEN CLAY w/ SAND STREAKS		
6	135	145	BROWN STICKY CLAY		
6	145	148	BROWN SAND 1 1/2 to 2 gpm X		
6	148	151	BROWN CLAY		
6	151	164	BROWN + GRAY SAND 11 gpm X		
6	164	165	BROWN CLAY		
6	165	167	BROWN + GRAY SAND		
6	167	171	BROWN CLAY		
6	171	172	BROWN + GRAY SAND		
6	172	174	BROWN CLAY		
6	174	175	BROWN + GRAY SAND		
6	175	183	BROWN CLAY		
6	183	194	BROWN CLAYSTONE		
6	194	196	BROWN + GRAY SAND X		
6	196	198	BROWN CLAY		
6	198	203	BROWN + GRAY SAND X		
6	203	207	BROWN CLAY		

Completed Depth _____ (Measurable)

Date: Started _____ Completed _____

13. DRILLER'S CERTIFICATION

I/We certify that all well construction standards were complied with at the time the rig was removed.

Firm Name JAKES & SONS Well Drilling Firm No. 408Firm Official Robert W. Statton Date 10-26-94

and

Supervisor or Operator _____ Date _____

(Sign once if Firm Official & Operator)

FORWARD WHITE COPY TO WATER RESOURCES

Use Typewriter
or
Ball Point Pen

1-2

1. DRILLING PERMIT NO. 77-94-C-0001-000
Other IDWR No. 77-07337

2. OWNER:

Name WARM LAKE RECREATIONAL WATER USERS
Address 10850 SMOKE RANCH DRIVE
City Boise State Id. Zip 83709

3. LOCATION OF WELL by legal description:

Sketch map location must agree with written location.



Twp. 15 North ☒ or South ☐
 Rge. 7 East ☒ or West ☐
 Sec. 7 1/4 SW 1/4 NW 1/4
 Gov't Lot _____ County Valley

Address of Well Site _____

(Give at least name of road + Distance to Flood or Landmark)

Lt. _____ Blk. _____ Sub. Name _____

4. PROPOSED USE:

☐ Domestic ☐ Municipal ☐ Monitor ☐ Irrigation
☐ Thermal ☐ Injection ☐ Other _____

5. TYPE OF WORK

☐ New Well ☐ Modify or Repair ☐ Replacement ☐ Abandonment.

6. DRILL METHOD

☐ Mud Rotary ☐ Air Rotary ☐ Cable ☐ Other_____

7. SEALING PROCEDURES

SEAL/FILTER PACK			AMOUNT	METHOD
Material	From	To	Sacks or Pounds	

Was drive shoe used? Y ☐ N ☐

Was drive shoe seal tested? Y ☐ N ☐ How?

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
					☐	☐	☐	☐
					☐	☐	☐	☐
					☐	☐	☐	☐

Length of Headpipe _____ Length of Tailpipe _____

9. PERFORATIONS/SCREENS

Perforations Method _____

Screens **Screen Type** _____

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
						☐	☐
						☐	☒ MIC
						☐	☐

10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

ft. below ground Artesian pressure _____ lb.

Depth flow encountered _____ ft. Describe access port or control devices:

11. WELL TESTS:

☐ Pump ☐ Bailer ☐ Air ☐ Flowing Artesian

Yield gal./min.	Drawdown	Pumping Level	Time

Water Temp. _____ Bottom hole temp. _____

Water Quality test or comments:

12. LITHOLOGIC LOG: (Describe repairs or abandonment)

[illegible]

Completed Depth 265 (Measurable)

Date: Started 10-12-94 Completed 10-25-94

13. DRILLER'S CERTIFICATION

LMED
We certify that all minimum well construction standards were complied with at the time the rig was removed.

Form Name GESTRIN well DRILLING Firm No. 408

Firm Official Robert W. Johnston Date 10-26-94

and

Supervisor or Operator _____ Date _____

(Sign once if Firm Official & Operator)

FORWARD WHITE COPY TO WATER RESOURCES



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

CECIL D. ANDRUS
GOVERNOR

R. KEITH HIGGINSON
DIRECTOR

September 7, 1994

WARM LAKE RECREATIONAL WATER DISTRICT
9900 LOS RANCHITOS
BOISE ID 83709

PERMIT APPROVAL NOTICE

RE: PERMIT NO. 77-07337

Dear Permit Holder:

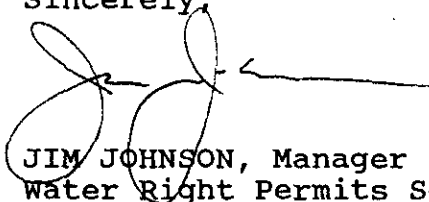
Enclosed is a copy of your approved application for permit.
Please be sure to thoroughly review the "CONDITIONS/REMARKS:"
listing on the permit.

As a permit owner you must commence the excavation or
construction of the diverting works within one year of the date
the permit was issued, and you must proceed diligently until the
project is completed. The date shown under condition no. 1
is the date when the project must be completed.

The Department will send you a "Proof Due Notice" approximately
60 days prior to the above referenced date requesting you to file
either a Proof of Beneficial Use form or a Request for Extension
of Time form.

If a well has not already been constructed you are required to
obtain a "drilling permit" from the department. The right to
drill a well is not a part of this permit to appropriate water.

Sincerely,



JIM JOHNSON, Manager
Water Right Permits Section

JJ:dc

Enclosures

RECEIVED

NOV 01 1994

**APPLICATION FOR PERMIT
STATE OFFICE REVIEW**
by Cindy Zimmerman

No.: 77-7337 Name: Warm Lake Rec. W.D. Date: 8/24/94 Correct Fee? ☒

AREA OF CONCERN? - No/Yes S/C Mor GWMA Trust/Non-trust
SYSTEM COMPLETED:

No

Complete in 1 year

Yes

Proof not submitted

Proof submitted

GROUNDWATER:

+ 0.2 cfs <FLO-CH>

- 0.2 cfs

Drilling Permit:

Included w/permit

Existing well

No WD permit?

SURFACE WATER: not in WD

LOCATION:

Water District (~~dem~~)

*Surface water

(doesn't sink)

Groundwater

In stream channel

Irr Dist/Canal Co.

Drainage Districts

Flood Control Dist.

Boise Front (63)

Swan Falls Flag

Trust

Non Trust <1>

RIVER BASINS (*Surface water):

Boise R(63)

Payette R(65)

Snake R(01/02/03)

USE:

Fish Propagation

Irrigation

Power

Mining

Storage (✓ 3 compo.)

Domestic (surface)

OWNERSHIP:

Non land owner

PROTESTED:

OTHER CONDITIONS:

REMARKS:

BENEFICIAL USE DUE:

COMMENTS:

WR0749NP
No. P77-07337

IDAHO DEPARTMENT OF WATER RESOURCES
WATER RIGHT PROFILE REPORT

DATE: 08/24/94
PAGE: 1

OWNER CODE	NAME & ADDRESS	PRIORITY DATE	WATER USE	USE PERIOD FROM TO	DIVERSION RATE	DIVERSION VOLUME
C	WARM LAKE RECREATIONAL WATER DISTRICT 9900 LOS RANCHITOS BOISE ID 83709 (208) 376-7692	06/06/1994	DOMESTIC	01-01 12-31	0.35 CFS	
					TOTAL DIVERSION:	0.35 CFS

Water Source: GROUNDWATER

Tributary to:

Stage: PERMIT

Point(s) of Diversion: T15N R06E S12 Lot 03(SENW) VALLEY County
S13 Lot 02(NENW) Lot 05(NWSE) VALLEY County
R07E S07 Lot 02(SWNW) VALLEY County

Place of use Legal Description for: DOMESTIC

				NE				NW				SW				SE				
T	R	S	:	Lt	Ac	Lt	Ac	Lt	Ac	Lt	Ac	Lt	Ac	Lt	Ac	Lt	Ac	Lt	Ac	:
15N	06E	12	:	D	01-D	01-D	04-D	:												:
15N	06E	13	:		02-D	03-D		:										05-D		:
15N	07E	7	:					:		02-D	D									:

Pou County: VALLEY

Conditions of Approval:

- 26A - Project construction shall commence within one year from the
- date of permit issuance and shall proceed diligently to
- completion unless it can be shown to the satisfaction of the
- Director of the Department of Water Resources that delays were
- due to circumstances over which permit holder had no control.
- T17 - Prior to diversion of water under this approval, the right holder
- shall provide a means of measurement acceptable to the Department
- from all authorized points of diversion which will allow
- determination of the total rate of diversion.
- 046 - Right holder shall comply with the drilling permit
- requirements of Section 42-235, Idaho Code.
- 46B - Construction of the well must comply with Idaho well
- construction standards.

Remarks: Two points of diversion are located within Lot 2 (SWNW), S07,
T15N, R07E.
Domestic use is for 2 lodges and 52 homes.
The domestic use authorized under this permit shall not exceed
13,000 gallons per day per dwelling in accordance with
Section 42-111, Idaho Code.

Dates: App. Received: 06/06/1994 Priority Date: 06/06/1994
Proof Due Date: 09/01/1999 Proof Made Date:
Exam Made Date: Exam Sent to S.O.:
Licensed Date:

Misc: Water District Number: Field Exam Fee:

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
APPROPRIATION APPLICATION ANALYSIS SHEET

not by H&W

INITIAL REVIEW BY: g DATE: 6/10/94 APPLICATION: 77-07337

REQUIRED INFORMATION

☒ Name: (If applicant is a corporation or partnership, names and addresses for the director, officers, and other partners must be included.)
☒ Address:
☒ Source: (See USGS Quad for names of water sources)
☒ Point of Diversion: (10 acres for spring, lot & block descriptions for subdivisions, local name)
☒ County:
☒ Quantity: (flow and/or volume)
☒ Period of use:
☒ Nature of proposed use: (Include description of use)
☒ Description of diverting works:
☒ Time required for beneficial use of water:
☒ Place of use or acres irrigated:
☒ Map:
☒ Signature: (If applicant is corp., partnership, or municipality, title of signatory is required)
☒ Fee:
☒ Yes ☐ No* In form to receipt:

Gov't. Lots:

☒ P/D

☒ P/U

RECEIVED

AUG 11 1994

ADDITIONAL INFORMATION

Department of Water Resources

YES NO

☒ ☐ Overlapping place of use: (Describe source & relationship to present application on the back.)
☒ ☐ Overlapping point of diversion:
☐ ☐ Field check required: Field check by: _____
☐ ☐ Field report attached:
☐ ☒ Critical groundwater area:
☐ ☒ Groundwater management area:
☐ ☒ 1992 moratorium *exempt*
☐ ☒ Copy to SCA staff (perennial stream, non-pump diversion):
☐ ☒ Send dam safety information:
☐ ☒ Send power requirement letter:
☐ ☒ Send fish farm requirement letter:
☐ ☒ Power residency affidavit:
☐ ☒ Power efficiency form:
☐ ☒ Within trust water boundary: (If yes, attach Trust Water Supplementary Analysis Sheet.)
☐ ☒ Diversion greater than 5 cfs or 500 af or irrigation greater than 200 acres: (If yes, attach Large Diversion supplementary analysis sheet.)
☒ ☐ *REQUEST ADDITIONAL INFORMATION FROM THE APPLICANT
tele conv w/ Ken Hunter - list of officers, Indis?
☒ ☐ DATE REQUESTED: 6/10/94
☒ ☐ Additional information on reverse side:

PROCESSING

APPLICATION NO. 77-07337

YES NO

☒ ☐
☐ ☒
☒ ☐

In form for advertising:

Statewide advertising: (> 10 cfs &/or 1000 af)

Fee amount, receipt number and date recorded on application:

SEND COPIES TO

YES NO

☒ ☐
☐ ☒
☐ ☒
☐ ☒

I.D. Health and Welfare

I.D. Fish and Game

I.D. Lands

Adjudication Bureau

YES NO

☐ ☒
☐ ☒
☐ ☒
☐ ☒

U.S. BLM

U.S. Forest Svc.

Water Dist. #

Other

FINAL REGIONAL PROCESSING REVIEW

YES NO

☒ ☐
☒ ☐

Affidavit of publication received:

Application published correctly: If not, record action taken.

☐ ☒
☐ ☒
☐ ☒
☐ ☒
☐ ☒
☐ ☒
☒ ☐

Publication dates and paper recorded on application:

Protests received. Final date for protest 6-7-25-94

Protest dates, resolution of protest recorded on application:

Recommendations attached: Approve, DRA

Measuring device required:

Measuring port required:

Water delivered by water master? District #

Special conditions of approval or cover letter:

26A (Allow 5 years)☒ See below for additional informationRecommended Date or Priority 6/6/1994Recommended by: DRA Date 8/2/94

STATE OFFICE REVIEW

☐ See below for additional information. By _____ Date _____

ADDITIONAL INFORMATION

P/D + P/Aoverlap info: 77-02056 - Chipmunk CR - N/A



IDAHO DEPARTMENT
OF HEALTH AND WELFARE

DIVISION OF
ENVIRONMENTAL QUALITY

RECEIVED

JUL 08 1994

WATER RESOURCES
WESTERN REGION

WTR RI File

1420 North Hilton, Boise, ID 83706-1260, (208) 334-0550

Cecil D. Andrus, Governor

July 7, 1994

WARMLAKE.IWR

David R. Tuthill, P.E. *DR*
Manager, Western Regional Office
Idaho Dept. of Water Resources
2735 Airport Way
Boise, ID 83705

RE: IDWR - Public Waters Appropriation Permit
Permit No. 77-07337 *Warm Lake*

Dear Mr. Tuthill:

The project must be conducted under the design and supervision of an Idaho registered professional engineer. The process to follow is:

1. The engineer must submit a preliminary site evaluation based on proximity of pollution sources. We will evaluate the proposal, conduct a site inspection, and issue a written site approval if warranted. The applicant should give his consultant the enclosed checklist.
2. Detailed plans and specifications must be submitted to this office for review. The well may not be drilled until all approvals are obtained from both the Division of Environmental Quality (DEQ) and the Idaho Department of Water Resources (IDWR). The last approval will come from DEQ; we will not issue approval until final approvals of both IDWR permits (appropriation permit and well drilling permit) have been submitted.
3. This will be a Public Water System and must have one (1) source of water for less than twenty-five (25) connections and two (2) sources for twenty-five (25) or more connections.

We will pay particular attention to the following items:

1. Construction must be done under the general supervision of the professional engineer. The contract assuring this must be submitted with the application.
2. Numerous water quality parameters must be tested as soon as the well is completed.

Sincerely,

Jack M. Gantz
Jack M. Gantz, P.E.
Senior Water Quality Engineer

cc: Warm Lake Recreational Water District, Applicant

NOV 01 1994

February 16, 1994

WSA.FL

RE: Preliminary Well Site Assessment

Dear _____:

A new well site must be approved by the Department, prior to drilling, per the IDAHO RULES PUBLIC DRINKING WATER SYSTEMS (IRPDWS), Section 08550,02.n. We require a preliminary well site assessment before we schedule a field visit. The written documentation shall include:

- A. A completed copy of the attached WELL SITING CHECKLIST. Note that 1) the Checklist does not have a page 8, and 2) that we recommend but do not yet require, the time of travel calculations.
- B. In order to maximize your flexibility in using this checklist, we ask that you provide a cover letter with a written certification that, in your opinion, the site is appropriate for a new Public Water System source. Comment specifically on the likelihood that the well could be classified as groundwater under the direct influence of surface water (GWDI).

Additional comments:

- A. In making this determination you should review the following documents to your satisfaction:
 - 1. The attached IDAHO WELLHEAD PROTECTION PLAN - DRAFT.
 - 2. The IRPDWS.
- B. You should also be aware that the following proposed regulations may impact the design and operation of ground water sources. We encourage you to voice your opinions during the upcoming public comment period.
 - 1. Disinfectants and Disinfection By-products (D/DBP Rule)
 - 2. Ground Water Disinfection Rule (GWDR)

As always, please feel free offer suggestions to improve or simplify our checklists.

Sincerely,

Monty G. Marchus, P.E.
Water Quality Engineer

MM:cm

attachment:

PC: _____

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SUMMARY

IDAHO WELLHEAD PROTECTION PLAN - DRAFT

PROGRAM SUMMARY, PURPOSE, DEVELOPMENT AND GENERAL POLICIES

The Wellhead Protection Program was established by the Safe Drinking Water Act Amendments of 1986, Section 1423. There are seven components of wellhead protection that a state plan needs to include:

- Specify the roles and duties of state agencies, local governments, and public water supply systems;

- Define wellhead protection areas;

- Identify all potential sources of contamination within wellhead protection areas;

- Manage all potential sources of contamination within wellhead protection areas;

- Address contingency plans in the event of loss of water supplies due to contamination;

- Address wellhead protection measures for new wells; and

- Include public participation.

The Wellhead Protection Program is also mandated to developed by the Idaho Ground Water Quality Plan, 1992, Policy II-A.

The purpose of the program is to prevent the contamination of drinking water that is supplied by ground water.

The Idaho Wellhead Protection Plan was developed by the Wellhead Protection Workgroup and a subgroup called the Technical Task Force. The Wellhead Protection Workgroup is made of representatives of other state agencies, EPA, city, county, businesses, and citizen's groups. Guidelines for the program will be developed from the plan.

The Idaho Wellhead Protection Program is voluntary for local governments to implement.

The Idaho Wellhead Protection Plan will be reviewed and updated as needed by the Wellhead Protection Workgroup and Technical Task Force.

Local wellhead protection plans will be reviewed by the Idaho Division of Environmental Quality to the extent of available resources and staff. The purpose of the review is to provide feedback and advice to the local entity submitting the plan. This review does not ensure that monitoring waiver benefits or any other benefits will be issued. Approval of plans for the purpose of issuing benefits must come from the program staff issuing the benefit.

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WELLHEAD PROTECTION AREA DELINEATION

The primary purpose for wellhead protection areas in Idaho is to prevent contamination of drinking water. Prevention actions include use of land use ordinances, implementation of Best Management Practices, and public education.

The secondary purpose for wellhead protection areas in Idaho is to provide a response action area. Response actions would be used when prevention is not successful. Response actions include cleanup of contamination problems, modifying Best Management Practices if necessary, ensuring adequate time to respond to a spill, ensuring adequate time to install water treatment devices and ensuring time to find interim or alternate sources of drinking water supplies.

Wellhead protection applies to both public and non-public water wells and springs.

There are two main approaches to delineating wellhead protection areas:

Basic Approach	Zone IA:	Minimum distance of 50' for wells, 100' for springs
	Zone IB:	2 year Time of Travel, calculated fixed radius
	Zone II:	5 year Time of Travel, calculated fixed radius

The basic approach uses general aquifer data and peak pumping rate. See Figure 1 and Table 1.

Refined Approach:	Zone IA:	Minimum distance of 50' for wells, 100' for springs
	Zone IB:	2 year Time of Travel, semi-analytical, analytical and numerical modeling
	Zone II:	5 year Time of Travel, semi-analytical, analytical, and numerical modeling
	Zone III:	Known recharge areas and flow boundaries, hydrogeologic mapping

The refined approach uses site specific data.

There is an exception to the general refined approach guidelines.

Refined Exception:	Zone IA:	Minimum distance of 50' for wells, 100' for springs
	Zone II:	2 year Time of Travel, semi-analytical, analytical and numerical modeling
	Zone III:	Known recharge areas and flow boundaries, hydrogeologic mapping.

If a local government wants to use the refined exception, they must meet some conditions. The local plan needs to include:

prevention plans that substantiate that ground water quality will be protected in the shorter time frame;

plans to provide alternate water supplies to meet the shorter time frame;

MENT OF POTENTIAL SOURCES OF CONTAMINATION

There should be an appropriate level of management throughout the wellhead protection area. Management should be progressively more stringent closer to the wellhead.

- Zone IA: Prohibit all potential sources of contamination
- Zone IB: Progressively more stringent management than in Zones II and III and may involve restricting or prohibiting some activities. Source monitoring is highly recommended.
- Zone II: An appropriate level of management using tools such as operation standards and design standards.
- Zone III: An appropriate level of management. Source monitoring is highly recommended.

Possible management tools

Regulatory:

- Zoning ordinances
- Subdivision ordinances
- Site plan review
- Design standards
- Operating standards
- Source prohibitions
- Best Management Practices
- Permits

Non-regulatory:

- Purchase of property or development rights
- Public education
- Ground water monitoring
- Household hazardous waste collection
- Water conservation
- Best Management Practices
- Guidelines
- Management plans

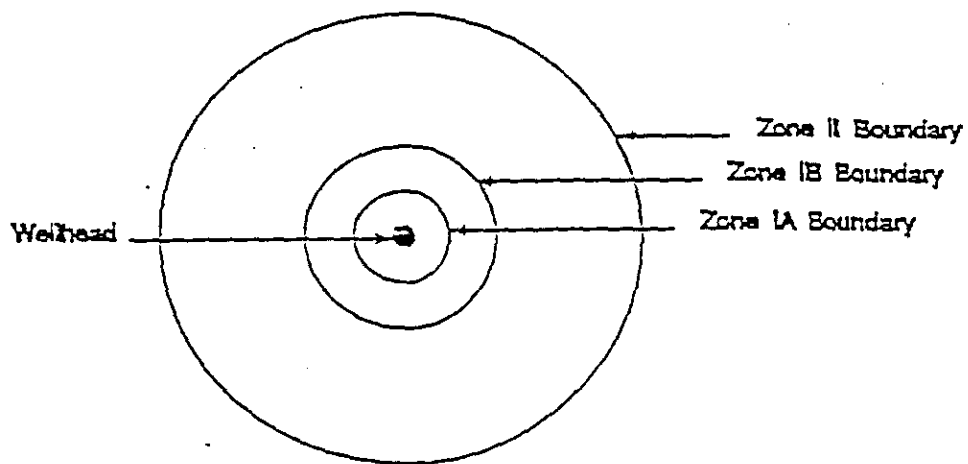


Figure 1 - Wellhead protection zones for basic wellhead protection areas

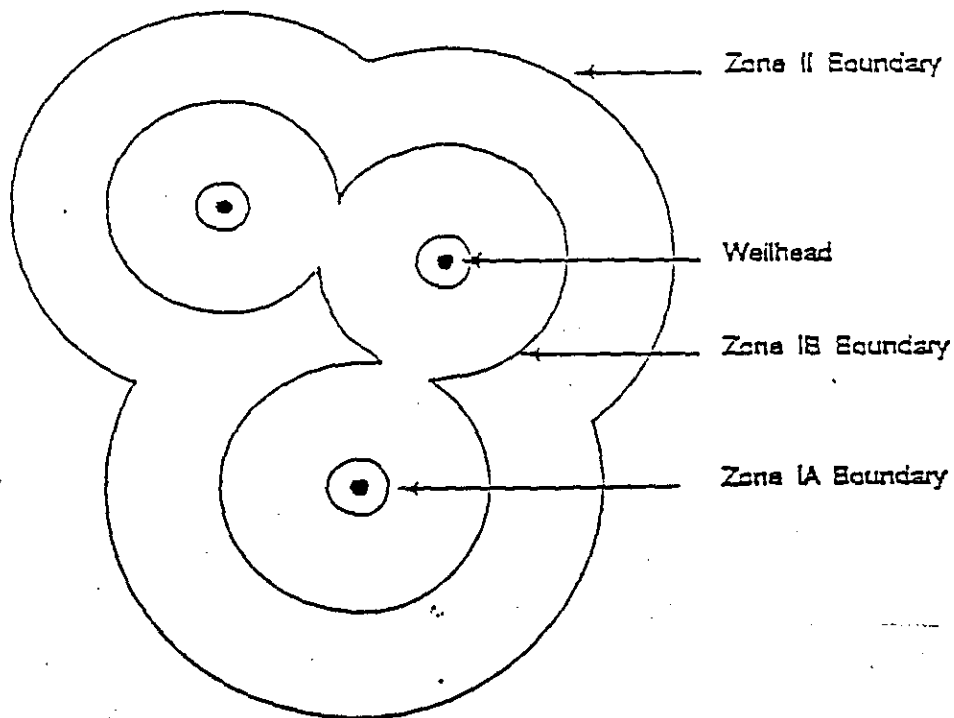


Figure 2 - Wellfield concept using the basic delineation approach

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MIXED VOLCANICS/SEDIMENTARY ROCKS - PRIMARILY SEDIMENTARY ROCKS										
PUMP RATE	50 GPM	100 GPM	500 GPM	1000 GPM	2000 GPM	3000 GPM	4000 GPM	5000 GPM	6000 GPM	7000 GPM
2 YEAR TOT	200'	200'	400'	600'	900'	1000'	1300'	1600'	1800'	2000'
5 YEAR TOT	300'	400'	700'	1000'	1300'	1700'	1900'	2200'	2500'	2700'

MIXED VOLCANICS/SEDIMENTARY ROCKS - PRIMARILY VOLCANIC ROCKS										
PUMP RATE	50 GPM	100 GPM	500 GPM	1000 GPM	2000 GPM	3000 GPM	4000 GPM	5000 GPM	6000 GPM	7000 GPM
2 YEAR TOT	3200'	3300'	3400'	3600'	3900'	4200'	4500'	4800'	5000'	5400'
5 YEAR TOT	8200'	8200'	8400'	8600'	9000'	9300'	9700'	10000'	10000'	11000'

GPM = Gallons per minute

TOT = Time of Travel

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11-01-94

CATEGORY II <i>Sources designed to store, treat, and/or dispose of substances; discharge through unplanned release</i>	
Source	Examples/Related Business
Landfills	Industrial hazardous waste Industrial non-hazardous waste Municipal sanitary
Open dumps	Abandoned dumps Illegal dumps
Residential disposal	Trash burning residue Waste oil disposal
Surface Impoundments	Food processing Industrial processing Sewage lagoons
Waste tailings	Acid mine drainage Mine tailings
Waste piles	Asphalt and construction debris Agricultural wastes Animal wastes Community compost piles Food processing wastes Wood wastes
Materials stockpiles	Animal feed piles Battery storage Coal storage Fertilizer piles Junkyards Road salt storage Scrapyards
Graveyards	Human burial (embalming chemical contamination)
Animal burial	Animal burial

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CATEGORY II (Continued) <i>Sources designed to store, treat, and/or dispose of substances; discharge through unplanned release</i>	
Source	Examples/Related Business
Containers or hazardous, non-hazardous, and non-waste materials, continued	Rust proofing shops Textile and apparel producers Transportation maintenance shops Wood treatment facilities
Open burning sites	Trash burning areas Pesticide container disposal Firefighter training sites
Detonation sites	Military facilities Ordnance disposal
Radioactive disposal sites	Federal facilities Mining wastes Preprocessing sites
CATEGORY III <i>Sources designed to retain substances during transport or transmission</i>	
Source	Examples/Related Business
Pipelines	Geothermal lines Petroleum lines Sewer lines Slurry lines
Materials transport/transfer	Transfer stations Vehicles carrying hazardous materials or waste

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CATEGORY IV <i>Sources discharging substances as a consequence of other planned activities</i>	
Source	Examples/Related Business
Irrigation practices	Ag return water
Pesticide/fertilizer applications	Agriculture lands Cemeteries Demossing of irrigation canals Golf courses Lawns Parks Transportation corridors
Animal feeding operations	Animal clinics Aquaculture Dairies Feedlots Kennels Poultry farms Race tracks Zoos
De-icing salt applications	Airports Transportation corridors
Urban runoff	French drains Infiltration basins Storm wells
Percolation of atmospheric pollutants	Acid rain
Mining	Mine site runoff Ore processing by cyanidation

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WELL SITING CHECKLIST:

Step I Administrative Information

- A. Date Received _____
- B. Name & Location of Project _____
- C. Is this Project New _____ or an Addition _____
- D. Owners Name, Address & Phone _____
- E. Consulting Engineers Name, Firm's Name, Address & Phone _____
- F. Others Name, Address & Phone _____
- G. DEQ and/or FWS No. _____
- H. DEQ Address & Phone
Division of Environmental Quality
Southwest Idaho Regional Office
1420 North Hilton
Boise, Idaho 83706-1260
- I. 7th District Health Contact & Phone _____

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Step II Local Information

A. Land Use:

- | | | |
|----|--|--------------|
| a. | | Residential |
| b. | | Commercial |
| c. | | Industrial |
| d. | | Agricultural |
| e. | | Range |
| f. | | Forest |
| g. | | Mining |

B. Type of Terrain:

- | | | |
|----|--|----------|
| a. | | Plain |
| b. | | Plateau |
| c. | | Desert |
| d. | | Valley |
| e. | | Flat |
| f. | | Slope |
| g. | | Foothill |
| h. | | Mountain |

C. Geology

- a. Type of Top Soil
- b. Depth of Top Soil
- c. Type of Intermediate Zone Material

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d. Depth to Water Table

e. Aquifer Type per Figure 2.18a

- | | | |
|----|--|---|
| 1. | | Eastern Snake River Plain Basalt |
| 2. | | Unconsolidated Alluvium |
| 3. | | Mixed Volcanic & Sedimentary - Primarily Volcanic |
| 4. | | Minor Aquifer |

f. Get Existing Well Logs

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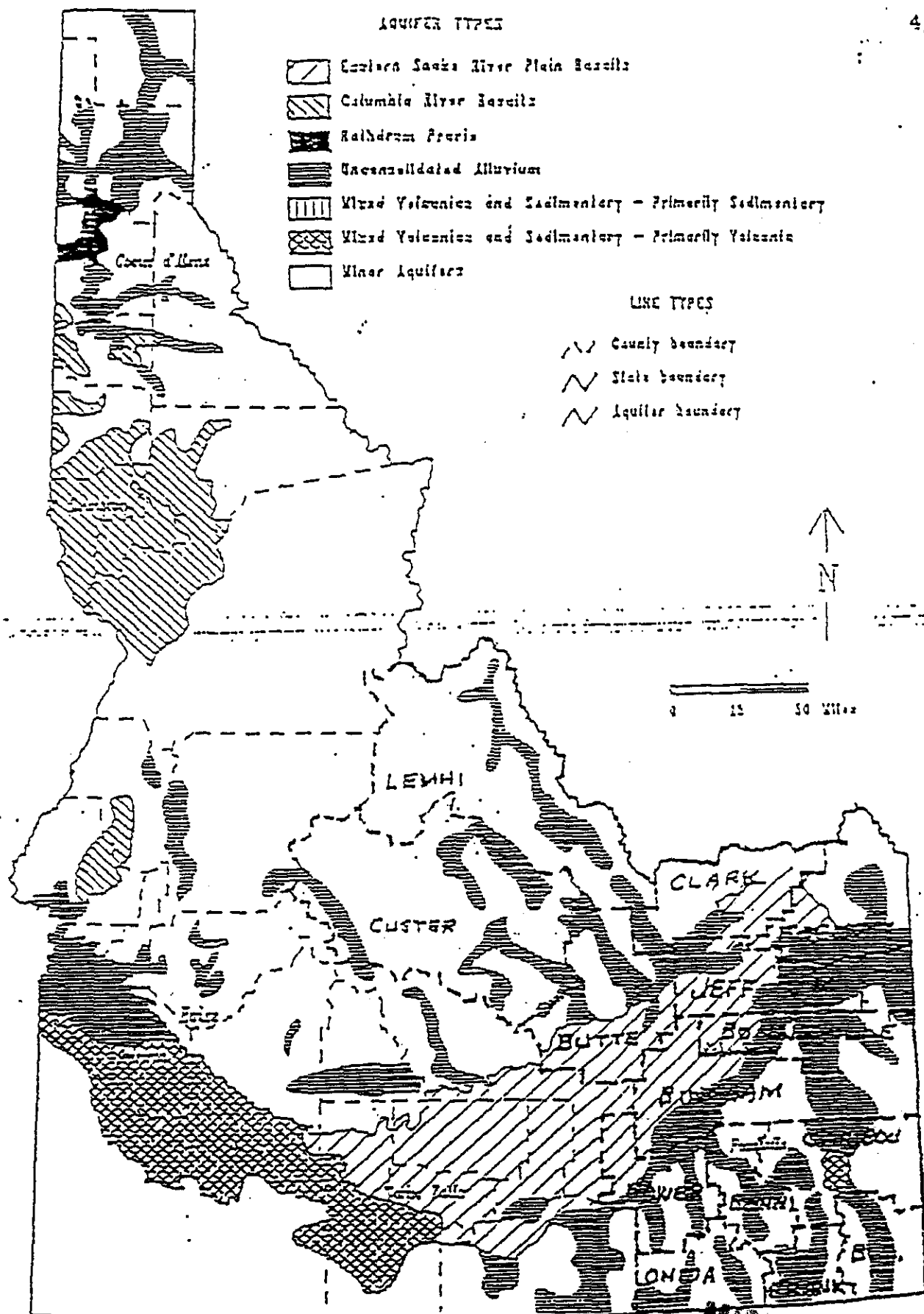


Figure 2.18a. Aquifer types in Idaho.
 (Copied from Well Head Protection in Idaho; sponsored by IDWR-DEQ,
 in cooperation with Idaho Water Resources Institute, Univ. of Idaho.)

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Step III Well Site Information

Topography

- a. Slope Direction
- b. Slope Grade
- c. Surface Flow To or Away

WELL SITE		
A	B	C

Sources of Contamination: Estimated Direction (DIR), Horizontal Distance (HD) & Vertical Distance (VD) From the Well Site to the Nearest Part of an Existing or Proposed Contaminant.

- a. Septic System
- b. Privy
- c. Sewer Line
- d. Livestock
- e. Lake, Pond, Reservoir
- f. River or Stream
(100 year Floodplain)
- g. Canal or Ditch
- h. Airborne Contaminates
- i. Surface Contaminates
- j. Buried Contaminates
- k. Other

DISTANCE FROM WELL SITE								
A			B			C		
HD	VD	DIR	HD	VD	DIR	HD	VD	DIR

- C. Get Subdivision Plat or Survey

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Well Head Protection Using Basic Approach

Pumping Rate in G.P.M. _____

Aquifer Type per Page 3/9

Calculated Radii per Tables 4.1a & 4.1b

Zone IA Minimum Radius Wells 50', Springs 100'

Zone IB 2-Year Time of Travel _____ Radius

Zone II 5-Year Time of Travel _____ Radius

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Table 4.1a. Basic delineation, calculated radii.

E. SNAKE RIVER PLAIN BASALTS									
PUMP RATE	50 GPM	100 GPM	500 GPM	1000 GPM	2000 GPM	3000 GPM	4000 GPM	5000 GPM	7000 GPM
2 YEAR TOT	1800'	1800'	2000'	2300'	2700'	3100'	3500'	3900'	4600'
5 YEAR TOT	4400'	4400'	4700'	5000'	5600'	6000'	6500'	6900'	7700'

COLUMBIA RIVER BASALTS									
PUMP RATE	50 GPM	100 GPM	500 GPM	1000 GPM	2000 GPM	3000 GPM	4000 GPM	5000 GPM	7000 GPM
2 YEAR TOT	300'	400'	900'	1300'	2200'	2900'	3700'	4500'	6000'
5 YEAR TOT	400'	600'	1300'	2000'	2900'	3700'	4600'	5400'	7000'

UNCONSOLIDATED ALLUVIUM									
PUMP RATE	50 GPM	100 GPM	500 GPM	1000 GPM	2000 GPM	3000 GPM	4000 GPM	5000 GPM	7000 GPM
2 YEAR TOT	6500'	6600'	7100'	7700'	8000'	10000'	11000'	12000'	14000'
5 YEAR TOT	16000'	16000'	17000'	18000'	19000'	20000'	21000'	22000'	24000'

GPM = Gallons per minute

TOT = Time of Travel

(Copied from Well Head Protection in Idaho; sponsored by IDWR-DEQ, in cooperation with Idaho Water Resources Research Institute, Univ. of Idaho.)

Site Evaluation

ell Site A Evaluation

Well Site B Evaluation

Well Site C Evaluation

RECEIVED

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Publisher's Affidavit of Publication

JUL 21 1994

RECEIVED

STATE OF IDAHO

.SS

County of Valley

I, Ramona A. French, being duly sworn and say, I am the receptionist of The Central Idaho Star-News, a weekly newspaper published at McCall, in the County of Valley, State of Idaho; that said newspaper is in general circulation in the county of aforesaid and is a legal newspaper; that the NOTICE OF APPLICATION FOR WATER RIGHTS, a copy of which is enclosed hereto and is a part hereof, was published in said newspaper once a week for two consecutive weeks in the regular and entire issue of every number there of during the period of time of publication, and was published in the newspaper proper and not in a supplement; and that publication of such notice began July 7, 1994 and ended July 14, 1994.

Subscribed and sworn before me this 14th day of July, 1994.

STATE OF IDAHO

COUNTY OF VALLEY

On this 14th day of July, in the year of 1994, before me, a Notary Public, personally appeared Ramona A. French, known or identified to me to be the person whose name subscribed to the within instrument, and being by me first duly sworn, declared that the statements therein are true, and acknowledged to me that she executed the same.

Tom Groie
Notary Public for Idaho
Residing at McCall, Idaho
Commission Expires: 1999

NOTICE OF APPLICATION FOR WATER RIGHT

The Following application(s) have been filed to appropriate the public waters of the State of Idaho:

65-13509

US DEPT OF INTERIOR

BUREAU OF RECLAMATION

ATTN 424 BOX 043

550 W PORT ST

BOISE, ID 83724

Source: UNNAMED STREAM

Thibault: CASCADE RESERVOIR

Diversion Pt: NESB 23 T15N R 03E in

VALLEY County

Use: WILDLIFE (2,000 CRS)

WILDLIFE STORAGE (15,00 AF)

DIVERSION TO STORAGE (2,000 CRS)

Total Diversion (2,000 CRS)

Date Filed: 4/29/1994

In: VALLEY County

T15N R03E S23 NESE NWSE

7-07337

WARM LAKE RECREATIONAL WATER

DISTRICT

9900 LOS RANCHITOS

BOISE, ID 83709

Source: GROUNDWATER

Diversion Pt: LOT 3 (SENV) Sec 12 T

15N R 06E in VALLEY County.

LOT 2 (NENW) Sec 13 T 15N R

06E in VALLEY County.

LOT 5 (NWSE) Sec 13 T 15N R

06E in VALLEY County.

LOT 2 (SWNW) Sec 7 T 15N R

07E in VALLEY County.

Use: DOMESTIC (350 CRS)

Total Diversion: (350 CRS)

Date Filed: 6/6/1994

In: VALLEY County

T15N R06E S12 NENE Lot 1 (NWNE) Lot

1 (SWNE) Lot 4 (SENE)

S13 Lot 2 (NWNE) Lot 3 (SWNE) Lot

5 (NWSE)

R07E S07 Lot 2 (SWNW) SENW

77-07338

CONSERVATIVE BAPTIST CAMP

US DEPT OF AGRICULTURE

FIRST BAPTIST CHURCH

221 E LINDEN ST

CALDWELL, ID 83605

Source: GROUNDWATER

Diversion Pt: SENW Sec 7 T 15N R 07E in

CANYON County.

Use: DOMESTIC (1,040 CRS)

Total Diversion: (1,040 CRS)

Date Filed: 6/9/1994

In: CANYON County

T15N R07E S07 SENW

Permits will be subject to all prior water

rights. Protests may be submitted based on the

criteria of Sec. 42-203A, Idaho Code. Any

protest against the approval of this application

must be filed with the Director, Dept. of Water

Resources, Western Region, 2735 Airport Way,

Boise, Idaho 83705 together with a protest fee

of \$25.00 on or before JULY 25, 1994. The

protestant must also send a copy of the protest

to the applicant.

R. KEITH HIGGINSON, Director 2/7/14

NOV 01 1994



State of Idaho
DEPARTMENT OF WATER RESOURCES

Western Region, 2735 Airport Way, Boise, Idaho 83705-5082 - (208) 334-2190
FAX (208) 334-2348

CECIL D. ANDRUS
GOVERNOR

R. KEITH HIGGINSON
DIRECTOR

June 30, 1994

IDAHO DEPT OF HEALTH & WELFARE
DIV OF ENV QUALITY
SWIRO
1420 N HILTON
BOISE, ID 83706

Re: Applications for Permit Nos. 77-7337, Warm Lake
Recreational Water District; 63-12116, East Lizard Butte
Water Co.; 57-7594 & 57-7593, Charles &/or Vicky
Hightower; 65-13515 & 65-13515, Idaho Mountain Properties

Dear Sir:

Enclosed are a copies of the above-referenced applications
for permit which may be of interest to your agency. Please
review the applications and submit any comments you may have.

This office normally completes the processing of an
application within a six-week period and is required to take
final action shortly thereafter, however, if your agency
desires to file a formal protest against the approval of this
application(s), your written protest must be received in this
office by July 25, 1994.

If you have any questions regarding the applications,
please contact this office.

Sincerely,

A handwritten signature in cursive script, appearing to read 'D. R. Tuthill, Jr.'.

DAVID R. TUTHILL, JR., P. E.
Manager, Western Regional Office

DRT:st

Enclosure(s):

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SD-0420-2
ADD COMMENT

Idaho Department of Water Resources
Modify Comment

Date: 06/13/94
Time: 13:49:11

Water Right Number: 77-07337

Comment Date: 6/13/1994 User ID: GRAVES

Subject: MISC.

This application replaces lapsed permit 77-07320, which listed spring water as the source. Warm Lake Recreational Water District could not afford the compliance necessary to meet DEQ requirements for development of the spring. The district decided to pump ground water instead.

Domestic use is for internal use only. Incidental irrigation would occur on less than 1/2 acre total (per tele conv with Ken Hunter 6/10/94).

(ENTER=Add) (Gold4=Prev) (Gold5=Next) (Gold7=Return to Comment Selection)

77-07337

WARM LAKE RECREATIONAL WATER DISTRICT
9900 LOS RANCHITOS
BOISE, ID 83709

Source: GROUNDWATER

Diversion Pt: LOT 3 (SENW) Sec 12 T 15N R 06E in VALLEY County.
LOT 2 (NENW) Sec 13 T 15N R 06E in VALLEY County.
LOT 5 (NWSE) Sec 13 T 15N R 06E in VALLEY County.
LOT 2 (SWNW) Sec 7 T 15N R 07E in VALLEY County.

Use: DOMESTIC (.350 CFS)
Total Diversion: (.350 CFS)

Date Filed: 6/ 6/1994

In: VALLEY County
T15N R06E S12 NENE Lot 1 (NWNE) Lot 1 (SWNE) Lot 4 (SENE)
S13 Lot 2 (NWNE) Lot 3 (SWNE) Lot 5 (NWSE)
R07E S07 Lot 2 (SWNW) SENW

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77-07337

WARM LAKE RECREATIONAL WATER DISTRICT
9900 LOS RANCHITOS
BOISE, ID 83709

Source: GROUNDWATER

Diversion Pt: LOT 3 (SEnw) Sec 12 T 15N R 06E in VALLEY County.
LOT 2 (NENw) Sec 13 T 15N R 06E in VALLEY County.
LOT 5 (NWSE) Sec 13 T 15N R 06E in VALLEY County.
LOT 2 (Swnw) Sec 7 T 15N R 07E in VALLEY County.

Use: DOMESTIC (.350 CFS)
Total Diversion: (.350 CFS)

Date Filed: 6/ 6/1994

In: VALLEY County
T15N R06E S12 NENE Lot 1(NWNE) Lot 1(SWNE) Lot 4(ENE)
S13 Lot 2(NWNE) Lot 3(SWNE) Lot 5(NWSE)
R07E S07 Lot 2(Swnw) SENW

NOV 01 1994