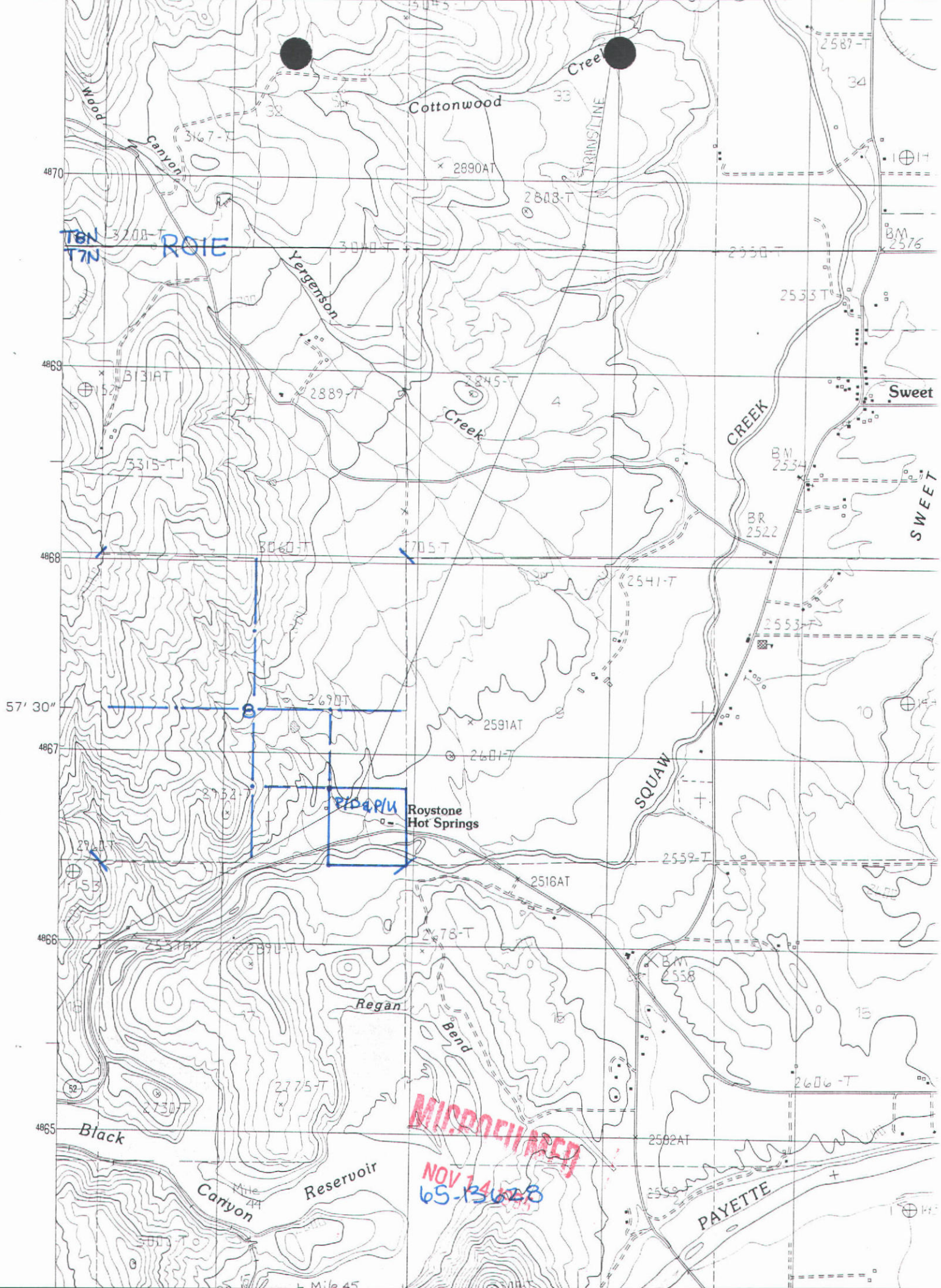




13. Map of proposed project: show clearly the proposed point of diversion, place of use, section number, township and range number.

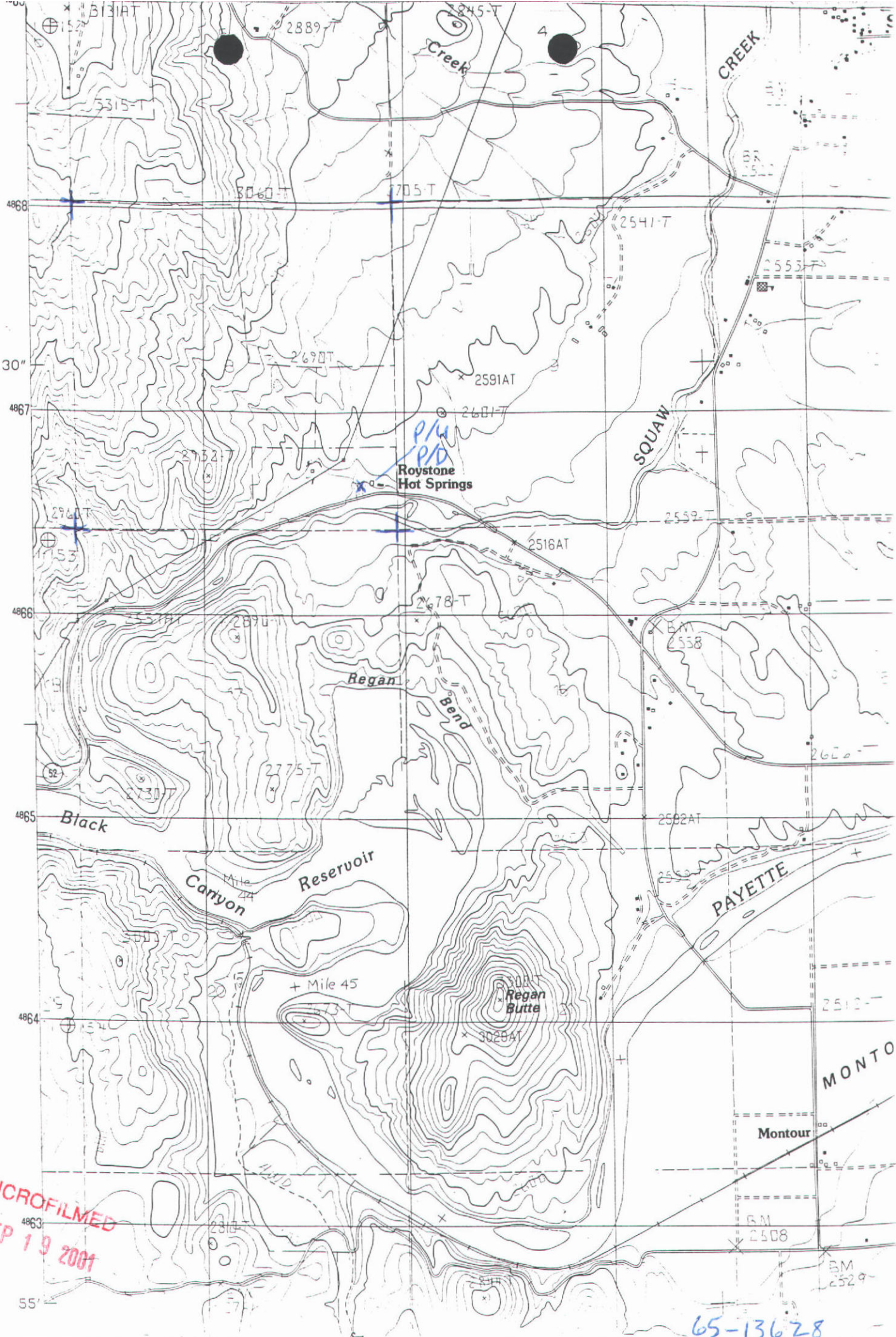
The map is a grid with handwritten annotations. In the upper left, '1E' is written. In the center, '8' is written. To the right of '8', '7N' is written. Below '8', there is a small 'x' with the words 'home well' written next to it. In the lower right, there is a handwritten note 'No govt lots - 8/8/95'. At the bottom center, there is a red stamp that reads 'NOV 14 1995'.

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.

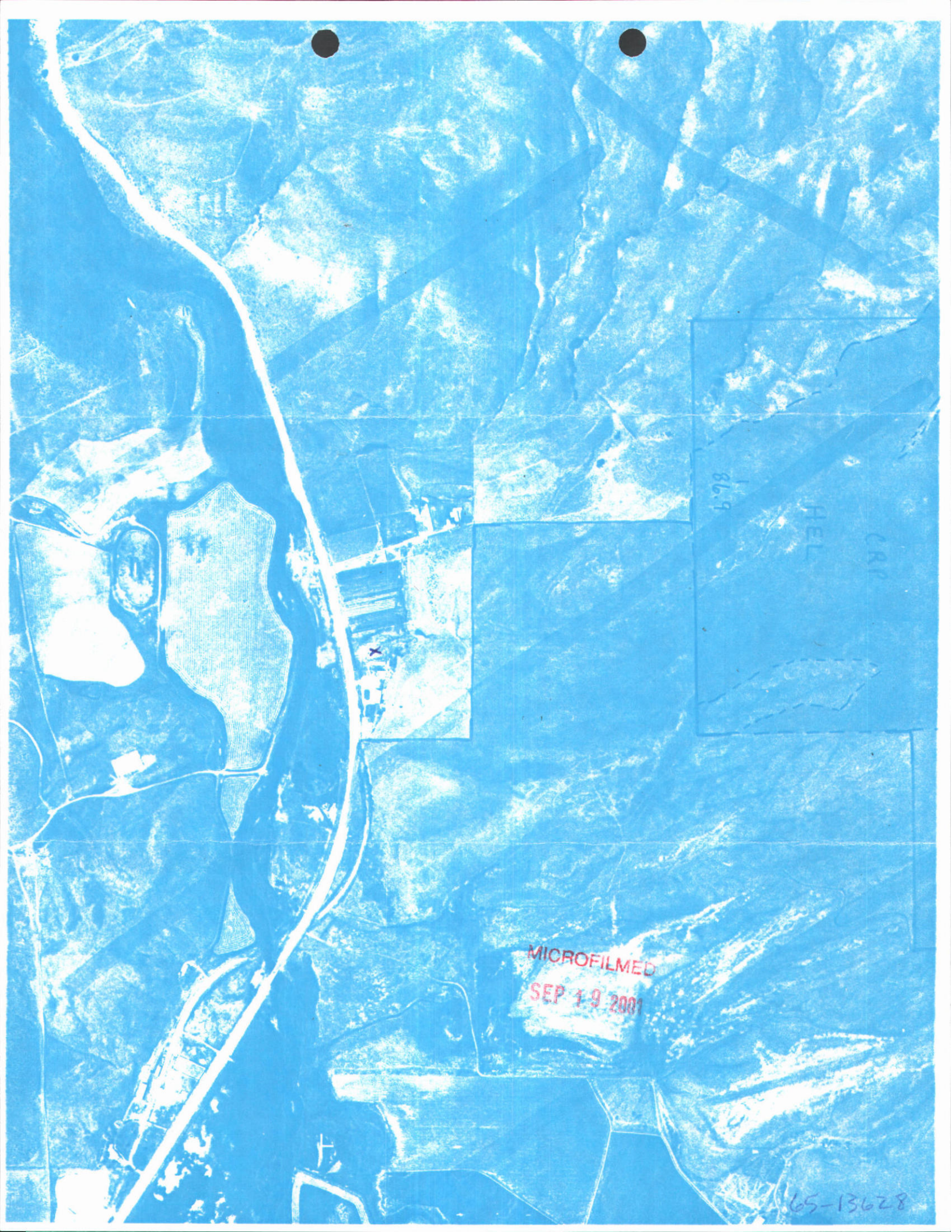
X Louis K Johns Pres.
(Applicant)

TIN
RIE
SEE 8
SESE



MICROFILMED
SEP 19 2001

65-13628



86.9

HEL

CAR

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SEP 19 2001

65-13628



50 yds West of pool
& house

P/D

1/2 HP pump



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65-13628

22 5'98



7000^{sq}' home

1000^{sq}' pool

1
P/U —



MICROFILMED
SEP 19 2001

65-13628

State of Idaho
Department of Water Resources
Water Right License

WATER RIGHT NO. 65-13628

Priority: August 18, 1995

Maximum Diversion Rate: 0.07 CFS
Maximum Diversion Volume: 12.0 AF

It is hereby certified that GEOTHERMAL INVESTMENT CORP
7880 N HWY 52
SWEET ID 83670 has complied with the terms and
conditions of the permit, issued pursuant to Application for Permit dated July 11, 1995; and has
submitted Proof of Beneficial Use on November 08, 1996. An examination indicates that the works have
a diversion capacity of 0.07 cfs of water from:

SOURCE

GROUND WATER

and a water right has been established as follows

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL DIVERSION VOLUME</u>
HEATING	01/01 to 12/31	0.07 CFS	12.0 AF

LOCATION OF POINT(S) OF DIVERSION:

GROUND WATER SE $\frac{1}{4}$ SE $\frac{1}{4}$ Sec. 8, Twp 07N, Rge 01E, B M., GEM County

PLACE OF USE: HEATING

Twp Rge Sec	NE				NW				SW				SE				Totals
	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
07N 01E 8																	X

CONDITIONS OF APPROVAL

1. Heating use is for 1 home with a small apartment and supplemental heating in swimming pool.

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

Signed and sealed this 21st day of June, 2001.

Acting for


KARL J. DREHER
Director

MICROFILMED
SEP 13 2001

IN THE MATTER OF PERMIT NO. 65-13628)
)
IN THE NAME OF GEOTHERMAL INVESTMENT CORP.) **ORDER OF**
) **REINSTATEMENT**
)

Bureau
 MICROFILMED
 DEC 02 1996

RECEIVED

NOV 13 1996

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

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.

1. Permit No. 65-13628 Telephone No. 208-584-3371
2. Name(s) of Permit Holder(s): Geothermal Investment Corp.
3. Mailing Address: 7880 N. Hwy 52, Sweet, Id. 83670
4. Source of Water: Groundwater If **GROUNDWATER** (well), Date Drilled: mo. about / yr. 1981
- a. Well Driller: _____ Drilling Permit Number: _____
- b. **OPTIONAL:**
Pump Horsepower: 2 HP Pressure (psi): _____ Dynamic pumping level (ft): 11 ft
5. Use(s) (as authorized by the water right permit):
Domestic (No. of households): _____ Stockwater (No. and type of stock): _____
Irrigation (No. of acres): _____ Other: Heating Building + Pool
6. Total rate of diversion and/or volume for which proof is submitted: .07 cfs OR _____ acre feet
7. 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 ☒ |
| | Has the measuring device been installed? | Yes _____ or No ☒ |
| Flow Measurement Port: | Is a flow measurement port required? | Yes _____ or No ☒ |
| | Has the measurement port been installed? | Yes _____ or No ☒ |
8. Fee Enclosed: \$ 50.00 (See Fee Schedule on back of the instructions for filing proof of beneficial use)
9. Person to contact to accompany the Department representative during field examination of the water system.
Name: Same as above Telephone Number: _____
Address: _____
10. 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: Louis K. Johnson Date: Nov-8-96
(include your title, if on behalf of company or organization)

MICROFILMED

State of Idaho
Department of Water Resources
Permit To Appropriate Water

NO. 65-13628

Proposed Priority: July 11, 1995

Maximum Diversion Rate:

0.07 CFS

This is to certify, that **GEOHERMAL INVESTMENT CORP**
7880 N HWY 52
SWEET ID 83670

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

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

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>RATE OF DIVERSION</u>
HEATING	01/01 to 12/31	0.07 CFS

LOCATION OF POINT(S) OF DIVERSION:

SESE , Sec. 8, Township 07N, Range 01E
GEM County

PLACE OF USE: HEATING

TWN RGE SEC

07N 01E 8

SESE

CONDITIONS OF APPROVAL AND REMARKS

1. Proof of construction of works and application of water to beneficial use shall be submitted on or before October 1, 1996.
2. Subject to all prior water rights.
3. Heating use is for 1 home with a small apartment and supplemental heating in swimming pool.

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

29th day of September, 1995

Karl J. Dreher
for Karl J. Dreher, Director

RECEIVED

NOV 14 1995

RECEIVED
SEP 25 1995

Ident. No. 65-13628

Department of Water Resources

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

APPLICATION FOR PERMIT

To appropriate the public waters of the State of Idaho

1. Name: GEOTHERMAL INVESTMENT CORP 208-584-3371
Address: 7880 N HYW 52
SWEET ID 83670
2. Source: GROUNDWATER Trib. to:
3. Location of Point of Diversion: SESE Sec. 8, Township 07N, Range 01E
GEM County
4. Water will be used for the following purposes:

Purpose	From	To	CFS	(or)	AF
HEATING	01/01	12/31	0.070		
5. Total quantity to be appropriated is:
0.070 CFS (and/or) AF
6. Proposed diverting works:
 - a. Description of ditches, flumes, pumps, headgates, etc.
WELL, PIPELINE TO RADIATORS.
 - 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 6 inches; proposed depth of well is 340
feet.
 - d. Is groundwater with a temperature greater than 85F being sought? YES
 - 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 1 year(s).
8. Place of Use: HEATING

TWN RGE SEC
07N 01E 8

SESE

NOV 14 1995

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:

HEATING USE IS FOR 1 HOME WITH A SMALL APARTMENT AND SUPPLE-
MENTAL HEATING IN SWIMMING POOL.

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.

Applicant

Received by _____ Date _____ Time _____ Preliminary check by _____

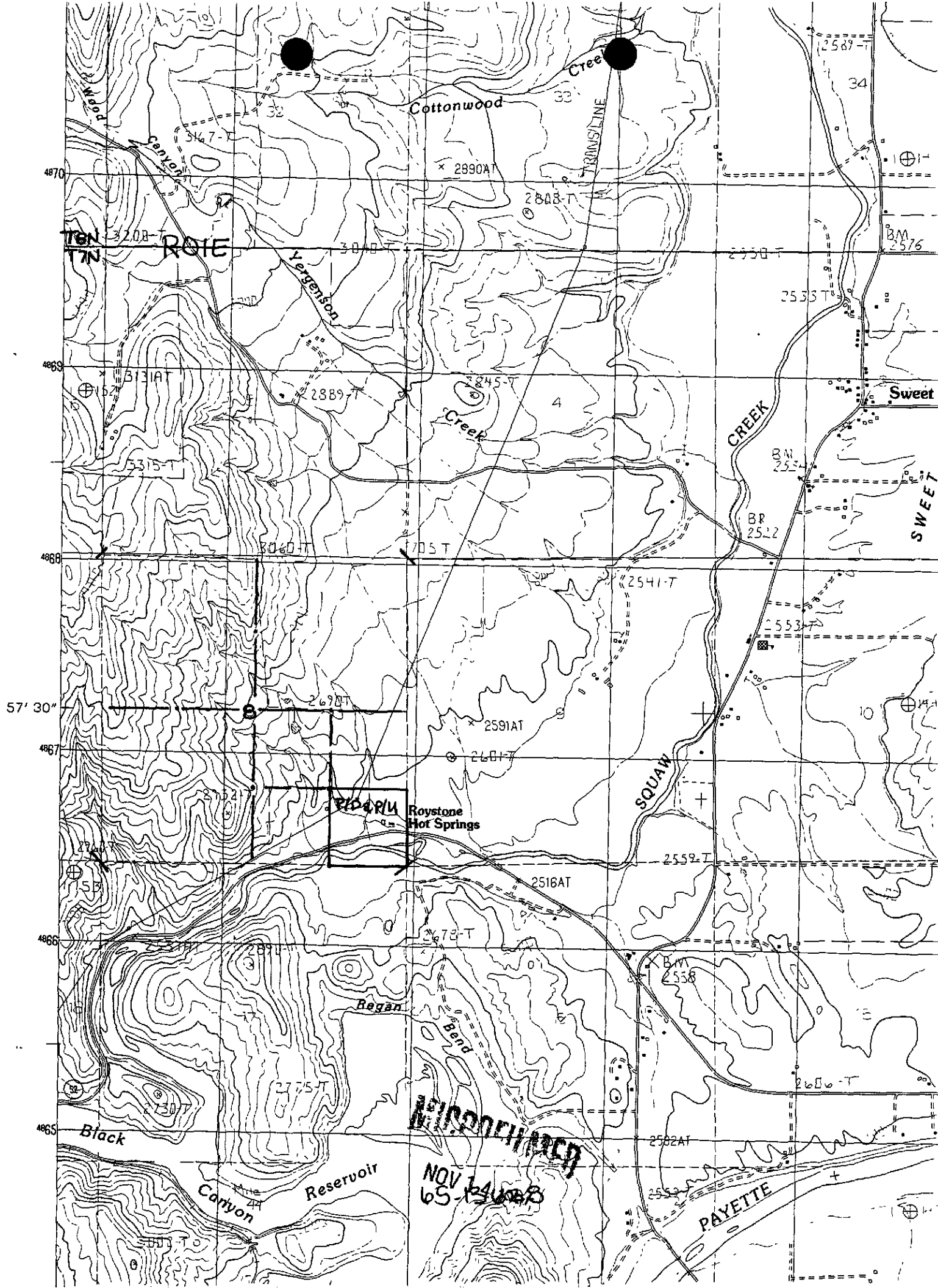
Fee \$ 100.00 Receipted by _____ #W019554 Date 7/11/1995

Publication prepared by _____ Date _____ Published in _____

Publication approved _____ Date _____

RECEIVED

NOV 14 1995



STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
APPLICATION FOR PERMIT

To appropriate the public waters of the State of Idaho

1. Name of applicant Geothermal Investment Corp Phone 208-584-3371
Post office address 7880 N Hwy 52, Sweet ID ~~83617~~ 83670
2. Source of water supply ground water which is a tributary of _____
3. Location of point of diversion is _____ 1/4 of SE 1/4 of SE 1/4, Govt Lot _____
Sec. 8 Township 7N Range 1E B.M. Gem County, additional
points of diversion if any _____
4. Water will be used for the following purposes.
Amount 0.07 for Heating purposes from Sept. 1 to May 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)
Amount _____ for _____ purposes from _____ to _____ (both dates inclusive)
(cfs or acre-feet per annum)
5. Total quantity to be appropriated is (a) 0.07 and/or (b) _____
cubic feet per second acre feet per annum
6. Proposed diverting works.
 - a. Description of ditches, flumes, pumps, headgates, etc. 340' well, pipeline to house where radiator's heat home; & water can be used in swimming pool
 - 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 6 inches; proposed depth of well is 340 feet
 - d. Is ground water with a temperature of greater than 85°F being sought? yes - 169°
 - e. If well is already drilled, when? 1980; Drilling firm _____
Well was drilled for (well owner) CPF3
7. Time required for the completion of the works and application of the water to be proposed beneficial use is 1 years (minimum 1 year). - use is in existence

NOV 14 1995

8 Description of proposed uses (if irrigation only, go to item 9)

- a Hydropower; show total feet of head and proposed capacity in KW _____
- b. Stockwatering; list number and kind of livestock. _____
- c. Municipal, show name of municipality _____
- d Domestic, show number of households _____

e Other, describe fully Heating - 1 home 78' x 49' - 2 story bldg. (used to be a resort - now 2 family home with small apartment) & Supplement heating in swimming pool.

9. Description of place of use

- a If water is for irrigation, indicate acreage in each subdivision in the tabulation below
- b If water is used for other purposes, place a symbol of the use (example: D for Domestic) in the corresponding place of use below. See instructions for standard symbols.

TWP	RANGE	SEC	NE¼				NW¼				SW¼				SE¼				TOTALS
			NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	
7N	1E	8																X	

X = Heating

Total number of acres to be irrigated _____

10 Describe any other water rights used for the same purposes as described above. A65-00156

11. 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. _____

12. Remarks: Geothermal Investment Corp. Officers:

address shown on front

Louis Johns, President

Ken Johns,

Ward Johns, Vice President

Milton Johns - 1209 E. Phillips St., Emmett

NOV 14 1981

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

The map is a hand-drawn diagram on a grid. It features several handwritten labels and a stamp. The label '1E' is written in the upper left quadrant. The number '8' is written in the center. The label '7N' is written in the center-right. The label 'home well' is written near a small 'x' mark. The label 'NO govt lots - 8/8/95' is written in the lower right. A stamp in the lower center reads 'APPROVED' and 'NOV 14 1995'. There are also several 'x' marks scattered across the grid.

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

X Louis K Johns Pres.
(Applicant)

Received by kw Date 7-11-95 Time 4:30 Preliminary check by JZ
Fee \$ 50.00 Receipted by kw # W019554 Date 7-11-95
Publication prepared by st Date 8-8-95 Published in Messenger-Index
Publication approved st Date 9-5-95

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. _____, and said application is hereby _____

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 _____, 19 _____

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. The water right acquired under this permit if for hydropower purposes shall be junior and subordinate to all rights to the use of water, other than hydropower, within the State of Idaho that are initiated later in time than the priority of this permit and shall not give rise to any right or claim against any future rights to the use of water, other than hydropower, within the State of Idaho initiated later in time than the priority of this permit.

e. Other

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CONVERSATION MEMORANDUM

DATE

2/31/95

FILE

NAME OF PARTY Louis Johns, Pres. 584-3371EMPLOYEE Steve LarkRE: 2 Apps. for Permit2 Wells, not integrated1 → heat home + pool ok to proceed;1 → living all year (?) not ok to proceed, yet,

not greenhouses, instead 2 tubes per
cultivated row, cover each row w/
plastic V shaped (Λ) "tent" c 2'-3'
high: 1 tube heats, 1 tube irrigates so
can raise crops all year.

problem: part of year do not need heat
value estimate c $\frac{1}{3}$ of year so how
address 42-233?

tent info c heat value reg'd. i
wanna to see how want to proceed

1995



State of Idaho

DEPARTMENT OF WATER RESOURCES

1301 North Orchard Street, Boise, ID 83706 - P.O. Box 83720, Boise, ID 83720-0098
Phone: (208) 327-7900 Fax: (208) 327-7866 Web Site: www.idwr.state.id.us

DIRK KEMPTHORNE
Governor

KARL J. DREHER
Director

June 22, 2001

GEOHERMAL INVESTMENT CORP
7880 N HWY 52
SWEET ID 83670

RE: License No. 65-13628 - Issuance of License

Dear Water Right Holder(s).

The Department of Water Resources has issued the enclosed Water Right License confirming that a water right has been established in accordance with your permit. Please be sure to thoroughly review the conditions of approval and remarks listed on your license

The license is a PRELIMINARY ORDER issued by the Department pursuant to section 67-5243, Idaho Code. It can and will become a final order without further action by the Department unless a party petitions for reconsideration or files an exception and/or brief within fourteen (14) days of the service date as described in the enclosed information sheet

Please note that water right owners are required to report any change of water right ownership and/or mailing address to the Department within 120 days of the change. Failure to report these changes could result in a \$100 late filing fee. Contact any office of the Department or visit the Department's homepage on the Internet to obtain the proper forms and instructions

If you have any questions, please contact me at 208-327-7946.

Sincerely,

Shelley W. Keen

Water Rights Supervisor

SWK.klt

Enclosure(s)

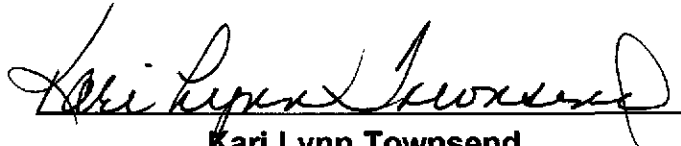
MICROFILMED
SEP 19 2001

CERTIFICATE OF MAILING

I hereby certify that on June 22, 2001 I mailed a true and correct copy, postage prepaid, of the foregoing PRELIMINARY ORDER(Approved License) to the person(s) listed below:

RE: WATER RIGHT NO. 65-13628

**GEOHERMAL INVESTMENT CORP
7880 N HWY 52
SWEET ID 83670**


**Kari Lynn Townsend
Secretary**

**MICROFILMED
SEP 19 2001**

**EXPLANATORY INFORMATION
TO ACCOMPANY A
PRELIMINARY ORDER**

The accompanying order or approved document is a "Preliminary Order" issued by the department pursuant to section 67-5243, Idaho Code It can and will become a final order without further action of the Department of Water Resources (department) unless a party petitions for reconsideration, files an exception and brief, or requests a hearing as further described below:

PETITION FOR RECONSIDERATION

Any party may file a petition for reconsideration of a preliminary order with the department within fourteen (14) days of the service date of this order. The department will act on a petition for reconsideration within twenty-one (21) days of its receipt, or the petition will be considered denied by operation of law. See Section 67-5243(3) Idaho Code

EXCEPTIONS AND BRIEFS

Within fourteen (14) days after (a) the service date of a preliminary order, (b) the service date of a denial of a petition for reconsideration from this preliminary order, or (c) the failure within twenty-one (21) days to grant or deny a petition for reconsideration from this preliminary order, any party may in writing support or take exceptions to any part of a preliminary order and may file briefs in support of the party's position on any issue in the proceeding with the Director. Otherwise, this preliminary order will become a final order of the agency.

REQUEST FOR HEARING

Unless a right to a hearing before the department or the Idaho Water Resource Board (Board) is otherwise provided by statute, any person aggrieved by any final decision, determination, order or action of the Director of the department and who has not previously been afforded an opportunity for a hearing on the matter may request a hearing pursuant to section 42-1701A(3), Idaho Code. A written petition contesting the action of the Director and requesting a hearing shall be filed within fifteen (15) days after receipt of the denial or conditional approval.

ORAL ARGUMENT

If the Director grants a petition to review the preliminary order, the Director shall allow all parties an opportunity to file briefs in support of or taking exceptions to the preliminary order and may schedule oral argument in the matter before issuing a final order. If oral arguments are to be heard, the Director will within a reasonable time period notify each party of the place, date and hour for the argument of the case. Unless the Director orders otherwise, all oral arguments will be heard in Boise, Idaho.

CERTIFICATE OF SERVICE

All exceptions, briefs, requests for oral argument and any other matters filed with the Director in connection with the preliminary order shall be served on all other parties to the proceedings in accordance with IDAPA Rules 37.01 01302 and 37.01.01303 (Rules of Procedure 302 and 303).

MICROFILMED

SEP 19 2001

FINAL ORDER

The Director will issue a final order within fifty-six (56) days of receipt of the written briefs, oral argument or response to briefs, whichever is later, unless waived by the parties or for good cause shown. The Director may remand the matter for further evidentiary hearings if further factual development of the record is necessary before issuing a final order. The department will serve a copy of the final order on all parties of record.

Section 67-5246(5), Idaho Code, provides as follows.

Unless a different date is stated in a final order, the order is effective fourteen (14) days after its issuance if a party has not filed a petition for reconsideration. If a party has filed a petition for reconsideration with the agency head, the final order becomes effective when:

- (a) the petition for reconsideration is disposed of; or
- (b) the petition is deemed denied because the agency head did not dispose of the petition within twenty-one (21) days.

APPEAL OF FINAL ORDER TO DISTRICT COURT

Pursuant to sections 67-5270 and 67-5272, Idaho Code, if this preliminary order becomes final, any party aggrieved by the final order or orders previously issued in this case may appeal the final order and all previously issued orders in this case to district court by filing a petition in the district court of the county in which:

- i. A hearing was held,
- ii. The final agency action was taken,
- iii. The party seeking review of the order resides, or
- iv. The real property or personal property that was the subject of the agency action is located.

The appeal must be filed within twenty-eight (28) days of this preliminary order becoming final. See section 67-5273, Idaho Code. The filing of an appeal to district court does not itself stay the effectiveness or enforcement of the order under appeal.

MICROFILMED
SEP 19 2001

LICENSE REVIEW CHECKLIST

Permit No 65-13628 Date 6-18-2001 Reviewer Kay Walker

Change/OK

Name/Address OK

Source OK
Point of Diversion OK

Does change clarify original intended source? If no, void permit.
Change (P39/P49) Add (P45/P44) Feds (P40)

W32 (multiple in 1/4/1/4)
W36 (overlap)
W59 (subdivision description)

Place of Use OK

Change (P41/P49) Add (P41/P44) Feds (P43)

W60 (subdivision description)
W27 (ppu acre limit)

Overlaps Right(s) 65-00156 - Raytone Hot Springs
File reviewed _____ Profile reports printed _____

P/D & P/U amend (P37) Feds (P48)

Rate of Diversion

Permitted rate 0.07 cfs
Fee Limit 0.20 cfs
Measured _____ cfs
Theoretical 0.07 cfs

Recommended Total Diversion Rate 0.07

Water Uses OK

Change (P46)

Season of Use per new Standards

Irrigation _____ cfs _____ af
Stockwater _____ cfs _____ af
Domestic _____ cfs _____ af
Heat 0.07 cfs 12.0 af
_____ cfs _____ af
Total 0.07 cfs 12.0 af

Irrigation - overlap(R58-R61, R62-R65, R66-R69)
supp Gw (WB7/065/104)
overlap spec combined rts (W35)
<1 acre (W31)
Domestic (W01/wb5/070/071/075)
Power (W42 or W43/025/027/R22 or R23)
Fish (042)
Fire (077)
Water Quality (081/R07)
Payette - (W22/047/27A)
Stockwater for US (R37)

Volume Determination

_____ cfs x 1 9835 x _____ days = _____ af (vs) _____ acres x _____ (FHR) = _____ af

Remarks _____

Additional Conditions _____ Watermaster Control
_____ GW Measurement/Measuring Device
_____ Other
Trust R55 - remove 051)
Non-trust (048/049)

GW Dist? _____
Water Msmt. Dist? _____
Crit. GWMA? _____
GWMA? _____
Government Lots? _____

Advance Priority? yes If yes, explain why below
no

SRBA Claim? not req'd

Adjust memo _____

Amend Letters _____ P87, S06 Second Amendment Notice _____ S06

8/18/01

Idaho Dept. of Water Resources
Place of Use Comparison Report

Page1

[illegible]

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

RECEIVED

SEP 10 1998

Department of Water Resources

A. GENERAL INFORMATION

Permit No. 65-13628

1. Owner: Geothermal Investment Corp Phone No. 584-3371

Current Address: 7880 N HWY 52 Sweet Id. 83670

2. Accompanied by: Ella May Johns EXAM DATE: 5/22/98

Address: same Phone No. _____

Relationship to Permit Holder: owner

3. Source: Ground water tributary to _____

B. OVERLAP REVIEW

1. Other water rights with the same place of use: 65-00156

2. Other water rights with the same point of diversion: _____

C. DIVERSION AND DELIVERY SYSTEM

1. Point(s) of Diversion:

Ident No.	Gov't Lot	1/4	1/4	1/4	Sec.	Twp.	Rge.	County	Method of Determination/Remarks
			SE	SE	8	7N	12	Carm	USGS map, field exam

2. Place(s) of Use:

Indicate Method of Determination

TWP	RGE	SEC	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
7N	12	8																H	

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SEP 10 2001

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
		1/2	red jacket	C48	JZDB11A11

*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: Theoretical

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SEP 13 2001

E. NARRATIVE/REMARKS/COMMENTS

A 6" well equipped with a 1/2 HP Red jacket pump is used to supplement hot water to heat a ~1000^{sq} pool and 7000^{sq} home (2 levels). The major source of water for the system is Roystone Hot Springs (65-00156). The well water is not used for drinking. The house is heated via radiators and ventilators.

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

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SEP 19 2001

F. FLOW CALCULATIONS

_____ Additional Computation Sheets Attached

Measured Method:

$$\frac{1/2 \text{ HP} \times 8.8 \times .7}{20 + (10 \times 2.31)} = .07 \text{ cfs}$$

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:

*See Attachment A***H. RECOMMENDATIONS**

1. Recommended Amounts

Beneficial Use	Period of Use		Rate of Diversion Q (cfs)	Annual Volume V (afa)
	From	To		
<i>Irrigation</i>	<i>1/1</i>	<i>12/31</i>	<i>.07</i>	<i>12</i>
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
Totals:			<i>.07</i>	<i>12</i>

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. AUTHENTICATIONField Examiner's Name *Lon Givane* Date *8/28/98*

Reviewer _____ Date _____

SEAL

MICROFILMED

ATTACHMENT A

$$E = [e \cdot \Delta T] A$$

$$e = .67$$

$$\Delta T = (70 - 4)^{\circ} F$$

$$A = 6000$$

pool + Home

$$E = [.67 \times 66] \cdot 8000 = 353,760 \text{ BTU/hr}$$

$$\Delta T_s = .3 (s - t)$$

$$= .3 (160^{\circ} - 70^{\circ})$$

$$= 27^{\circ} F$$

$$W = \frac{Q}{(500)(\Delta T_s)}$$

$$(500)(\Delta T_s)$$

$$= \frac{353,760}{500(27)}$$

$$500(27)$$

$$= 26.2 \text{ GPM} = .06 \text{ cfs}$$

allow .07 cfs per
theoretical +
permit

$$26 \times 60 \times 12 \times 212 /$$

$$325850$$

$$= 12 \text{ cfs}$$

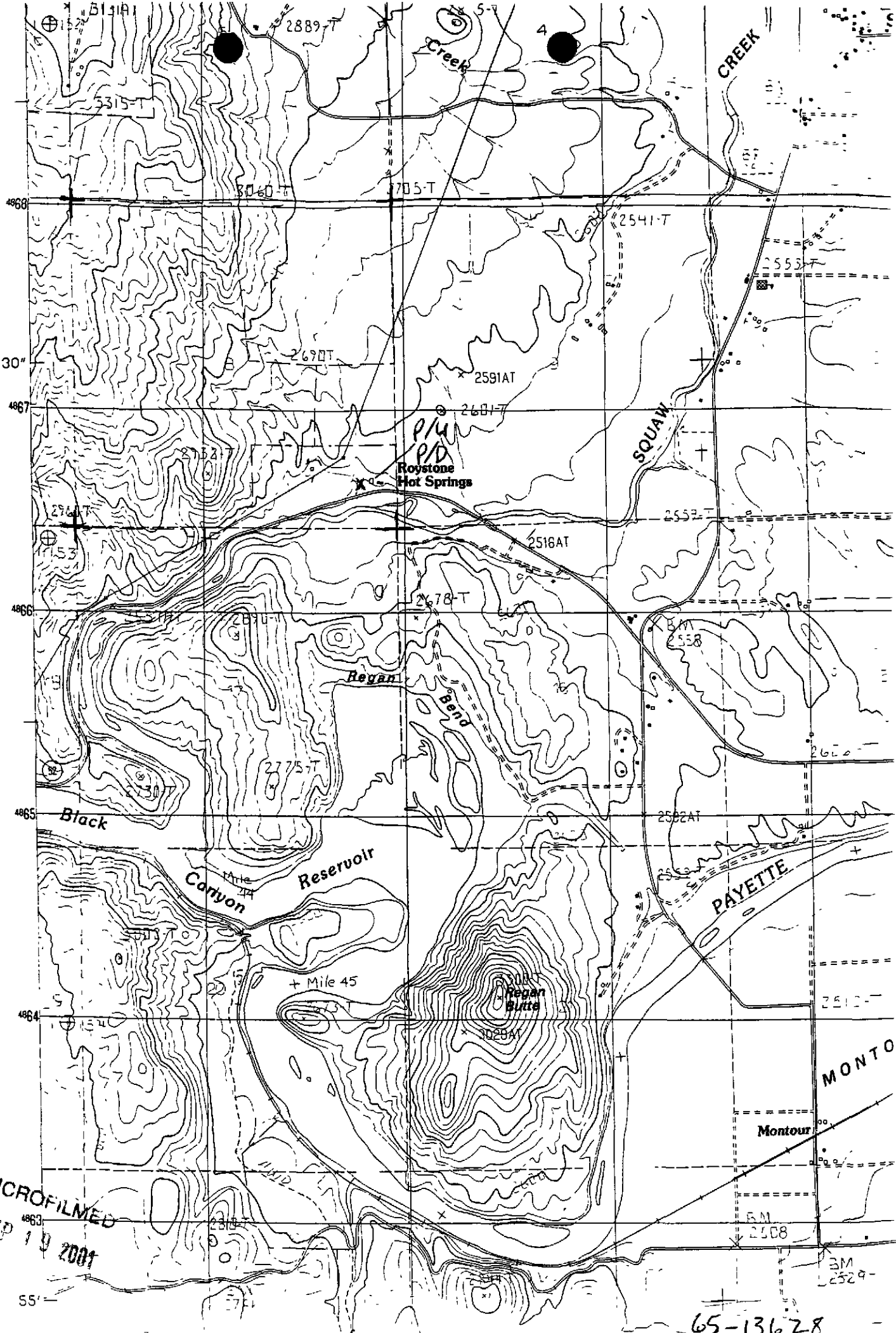
MICROFILMED

SEP 19 2001

ATTACHMENT A

65-13628

T7N
R1E
S4
SESE





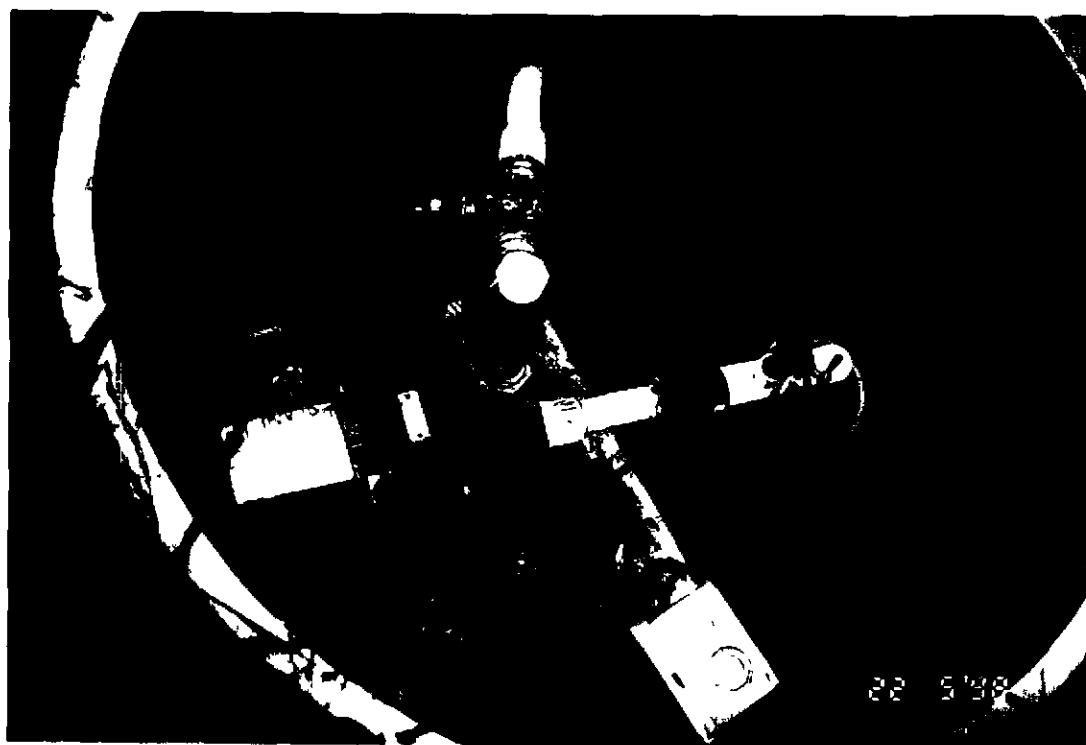
UNRECORDED
SEP 19 200



50 yards West of pool
+ house

P/D

1/2HP pump



MICROFILMED
SEP 13 2001

65-13628



7000^{sq}' home

1000^{sq}' pool

1
P/H —



MICROFILMED
SEP 13 2001

65-13628

IDAHO DEPARTMENT OF WATER RESOURCES

WELL INSPECTION FORM

1. DRILLING PERMIT NO: OTHER APPLICABLE NO: 65-13628
2. OWNER: Geothermal Investment Corp Phone: 584-3371
Address: 7880 N HWY 52 Sweet 83670
3. WELL LOCATION: Twp 7N, Rge. 1E, Sec. 8, SE 1/4 SE 1/4
County Bern (Provide sketch map and photo on reverse.)
4. DRILLER: Lic. No.
When Drilled?
5. WELL CONSTRUCTION: open top
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 ft. Method Drilled
Condition of Well Casing: ☐ Good ☒ Fair ☐ Poor Describe
Control Valve? ☒ Yes ☐ No Pressure Gauge: ☐ Yes ☒ No
Condition of Piping and Valving OK
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 ft. Water Temperature 160 °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
☐ Test ☐ Municipal
☐ Abandoned ☐ Waste Disposal/Injection
☐ Other: heating
- MICROFILMED
SEP 11 1994
Stock
Industrial
Not Used

8. POSSIBLE CONTAMINATION SOURCES:

Is there evidence of Chemigation? ☐ 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:

*top of casing open, however
located inside covered stand pipe*

L

Signature of Dept Representative & Title

5/22/98

Inspection Date

PHOTOS, DRAWINGS, OTHER ATTACHMENTS:

MICROFILMED

SEP 10 2001



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 18, 1996

GEOHERMAL INVESTMENT CORP
7880 N HWY 52
SWEET ID 83670

PROOF ACKNOWLEDGMENT LETTER

RE: PERMIT NO. 65-13628

Dear Permit Holder:

The department acknowledges receipt of the proof of beneficial use form submitted for the above referenced permit.

Enclosed is an order reinstating your permit since proof was submitted after the proof due date of October 1, 1993. Please note that the priority date has been advanced to August 18, 1995.

Section 42-248, Idaho Code, which became affective on July 1, 1996, requires you or the owner of this water right to maintain current ownership and address records on file with the department. Please contact any office of the department for the proper form to file a change of ownership of a water right and/or a change in the address of the owner. Failure to maintain current records with the department could result in the assessment of a monetary penalty.

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

Sincerely,

JULIE L. YARBROUGH

Senior Secretary

Enclosure

c: IDWR - Region

MICROFILMED
DEC 02 1996

**ANALYSIS SHEET
FOR
PROOF OF BENEFICIAL USE**

Permit No. 65-13628 Reviewed by [Signature] Date 11.14.98

GENERAL CONSIDERATIONS

TYPES OF USE

yes Name same as permit?

Heating

yes Address same as permit?

no Proof timely received?

Correct Uses? yes

If not, complete calculation below.

SOURCE OF WATER

 Surface water source

✓ Ground water source

no Drilling permit required?

 Copy in the file? Drilling Permit No.

 Amount paid for permit Correct?

 Well log in the file?

LICENSE EXAMINATION FEE

MEASURING DEVICE

yes Required?

no Required?

50- Amount Submitted

 Installed?

yes Correct?

 Waiver requested?

PRIORITY CALCULATION

Date proof received 11.8.96 312

Date proof due 10.1.96 - 274

No. of days late = 38

Priority Date 7.11.95 + 192

New Priority Date 8.18.95 230

8.18.95

DEFICIENCIES OR ACTION ITEMS

Reinstate & advance priority to Aug. 18, 1995.
Proof acceptable

DATA ENTRY

New Address [Signature]

Proof Made 11.8.96

WARNING

CANCELLED OR LAPSED

This permit has been officially CANCELLED or LAPSED.

Ninety days following the date of official action this file will be DESTROYED.

October 30, 1996

GEOHERMAL INVESTMENT CORP
7880 N HWY 52
SWEET ID 83670

LAPSE NOTICE

RE: PERMIT NO. 65-13628

Dear Permit Holder:

You are hereby notified that under the provisions of Section 42-218A, Idaho Code, the above referenced permit has lapsed and is of no further force nor effect. The department provided the proper forms to you in our proof due notice dated July 31, 1996. No further construction or additional development is authorized under this permit unless it is reinstated.

The permit can only be reinstated if you submit an acceptable proof of beneficial use or an acceptable request for extension of time to the department within sixty (60) days of the mailing of this lapse notice. An acceptable proof of beneficial use submittal must include the examination fee or a completed field examination report. A request for extension of time must be accompanied by a fifty dollar (\$50.00) fee.

Enclosed again for your use are a proof of beneficial use form and a request for extension of time form. Please note that only one extension of time can be granted unless the project has not been completed because of lack of a necessary approval by a government agency or by litigation which may bring title to the water in question.

L. GLEN SAXTON
Chief, Water Allocation Bureau

Enclosures

MICROFILMED
DEC 02 1996

CERTIFICATION OF MAILING

I hereby certify that on 10/30/96
a ~~copy~~/an original of this document was
deposited in the United States mail,
postage prepaid addressed to the
individual(s) named above.

[Signature]

July 31, 1996

GEOHERMAL INVESTMENT CORP
7880 N HWY 52
SWEET ID 83670

PROOF DUE NOTICE

RE: PERMIT NO. 65-13628

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 October 1, 1996.

(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.

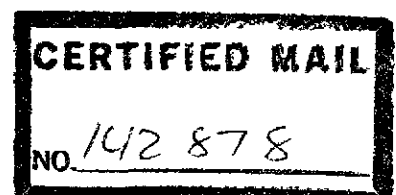
Either an acceptable proof of beneficial use submittal or an acceptable request for an extension of time must be received by this department on or before the above described proof due date. If neither is received, the department will send you a lapse notice. Within sixty (60) days of the mailing of the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

SINCERELY,

JULIE L. YARBROUGH
Senior Secretary

Enclosures

MICROFILMED
DEC 02 1996





State of Idaho

DEPARTMENT OF WATER RESOURCES

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

October 5, 1995

Mr. Louis Johns, President
Geothermal Investment Corp.
7880 N. Hwy 52
Sweet, ID 83670

PHILIP E. BATT
GOVERNOR

KARL J. DREHER
DIRECTOR

RECEIVED

OCT 10 1995

Department of Water Resources

RE: APPLICATION FOR PERMIT NO. 65-13643

Dear Mr. Johns:

The above-referenced application for permit was filed on July 11 along with another application. Both filings included low temperature geothermal wells (or "hot wells"), and recently one of the filings was approved as permit no. 65-13628 (non-irrigation use).

Please excuse the delay in writing you this letter about the irrigation application, no. 65-13643. You requested an irrigation season from January 1 through December 31 each year instead of the normal season of March 15 through November 15. In our telephone conversation on July 31, you explained that irrigation would include some type of covered cultivation, thus providing a chance to grow crops all year.

Additional information is needed in order to evaluate such a proposal. Normally, heat value from a "hot well" must first be used before a secondary use such as irrigation can be permitted under a valid water right. Please review the following points.

1) Do you seek a waiver from the heat value requirement defined in Section 42-222(1), Idaho Code (copy attached)? If so, please address the three points listed in that statute.

2) Please explain in somewhat more detail how your plan would work. How can hot water be applied to crops and provide a beneficial use? Must the water be cooled first prior to irrigation use? If so, how would this be done? How do you intend to provide a suitable irrigation environment during the winter months?

I will delay advertising this application pending your response. Please contact this office at your convenience if you need more information. I will be out of the office from October 13 through November 1, but you can leave a message or send a letter and other staff will be able to assist you.

Sincerely,

Steve Lester
Water Rights Supervisor

Enclosure

NOV 14 1995



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

September 29, 1995

GEO THERMAL INVESTMENT CORP
7880 N HWY 52
SWEET ID 83670

PERMIT APPROVAL NOTICE

RE: PERMIT NO. 65-13628

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.

Enclosed is a form entitled "Instructions for Proof of Beneficial Use". Please read the instructions carefully since you must take further action to develop this permit. Also enclosed is a form entitled "Proof of Beneficial Use". If your project is already completed you should complete and submit this form immediately.

Sincerely,

Shelley W. Keen
Water Rights Supervisor

SK:rl

Enclosures

NOV 14 1995

APPLICATION FOR PERMIT
STATE OFFICE REVIEW
by Cindy Zimmerman

No.: 65-13628 Name: Geothermal Investment Corp Date: 9/28/95 Ad OK? ✓
Correct Fee? ✓ Receipt #: W019554 Priority: 7/11/95 ✓ Gvmt Lts: ✓

AREA OF CONCERN? - No/Yes Mor GWMA Trust/Non-trust
PROTESTED: - 020(Protest Agr) or W19(See Final/Prelim Order)

SYSTEM COMPLETED:
Yes/proof filed - NA
1 year/no proof - P16
+1 year - 26A-P17

GROUNDWATER: <✓ FLO-CH>
+ 0.2 cfs - 01M
=/- 0.2 cfs - No MD
=/+ 5 a. - 01M, 065(if GW use SW 1st)

Drilling Permit:
Existing well - NA (pre 7/1/87)
Included w/permit - Permit No. , P99
No WD permit? - 046-46B-P23 (post 7/1/87)
irr. in WD - P05 (new well)

SURFACE WATER <✓ FLO-CH> (Surface water that doesn't sink is regulated):
Water District (~~dem~~) - 005 (req) WD # <SEE MAP & LISTING>
+ 0.2 cfs - 028(may report)-01J(meas dev)-P08
=/- 0.2 cfs - 028(may report)-01H(lock dev)-P01 or No MD
=/+ 5 a, irr. - 028(may report)
In-WD + 0.2 cfs - 01M or No MD (in-stream)
- 0.2 cfs - No MD
=/+ 5 a. irr. - 01M

RIVER BASINS (*Surface water):
Snake R (01) - 11A-P04, NA
(02/03) - 007-P07 (w/remark WB9), NA
Boise R (63) - 05A (if WD), 11E (not 42-111 use), NA
Payette R (65) - 064(regulated uses), 047-P04(Payette Lake), NA

USE:
Domestic (surface) - 021(Boise R ↑ L Peak); 27A(Payette R); NA
Fish Propagation - 07A-042(rq)-010/06A/09E(WQ)-P10;044(N 1000 Spr)
Irr <POU> =/- 5 a - 057 (0.03 cfs/A)
+ 5 a - 03A (0.02 cfs/A)
Mining - 054 (req) & 06A/010/09E-P10
Power - 08A-17K-025-027-01M-01F(P19)-09E(P10);
+25 cfs-P18; 17G(FERC) or 17M(FERC); 18B-P09
Storage(✓ 3 compo.) - 18A(multi MD in WD), 18B-P09 (+10' dam), NA

LOCATION:
Boise Front LoGeo - 058 (-85° GW temp only)
In-stream dev. - P52 (stream channel alteration)
Irr Dist/Canal Co. - 023 (Twin Falls area)
Swan Falls Flag - <SEE CODE CHART>
Trust - 051-052-053-P74 (Consumptive Uses), NA
Non-Trust <1> - 048-049 (Consumptive Uses), NA
OWNERSHIP:Non-land owner - 004 (PD/PU)

OTHER CONDITIONS:

~~STANDARD REMARKS:~~

BENEFICIAL USE DUE:

COMMENTS:

① Heating home & pool.

10-1-199**b**

① Corp off.

RECEIVED
SEP 25 1995

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
APPROPRIATION APPLICATION ANALYSIS SHEET

7N 16 S.8

Department of Water Resources

INITIAL REVIEW BY: RL DATE: 8/1/95 APPLICATION: 65-13628

REQUIRED INFORMATION

Name: (If applicant is a corporation or partnership, names and addresses for the director, officers, and other partners must be included.) *See remarks e orig. appl.*
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: (show T, R, S, QQ &/or QQQ)
Subdivision plat: (for > 1 home in restricted area. ≥ 5 homes in non-restricted area)
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

ADDITIONAL INFORMATION

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:
Copy to SCA staff: (perennial stream, non-pump diversion)
Copy to Dam Safety staff: (for any storage)
Basin 63 mitigation plan: (where ground water replaces surface water for irrigation, request additional information &/or mitigation plan to address reduced aquifer recharge)
Send power requirement letter:
Send fish farm requirement letter:
Power residency affidavit:
Power efficiency form:
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

DATE REQUESTED: _____

☒ Additional information on reverse side:

PROCESSING

APPLICATION

65-13628

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. District Health

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 9-5-95

Protest dates, resolution of protest recorded on application:

Recommendations attached: Approve, Brr

Measuring device required:

Measuring port required:

Water delivered by water master? District # _____

Special conditions of approval or cover letter: _____

See below for additional information

Recommended Date or Priority 7/11/1995Recommended by: DRDate 9/20/1995

STATE OFFICE REVIEW

See below for additional information. By _____

Date _____

ADDITIONAL INFORMATION

Existing low temp geothermal well. Also, similar appl. for 2nd hot well nearby for irrig/comm. use pending but needs add'l info from applicant before can proceed.

Overlap - 1 Square Ak. is 3 Rye Stone Hot Springs Rights (1 in name of current Applicant), all for irrigation use.

RECEIVED

AUG 24 1995

WATER RESOURCES
WESTERN REGION

AFFIDAVIT OF PUBLICATION

STATE OF IDAHO,

SS.

COUNTY OF GEM,

Marianne Chaney, being first
duly sworn, on her oath deposes and
says that she is the clerk of the Mes-
senger Index, a legal weekly news-
paper published at Emmett, in Gem
County, Idaho; that said newspaper
is in general circulation in said
county and has been published unin-
terruptedly and continuously for
more than 78 weeks prior to the
first publication of the annexed
document; and that the document
notice, process, or advertisement
hereunto annexed was published in
the regular edition of Messenger
Index for 2

consecutive weekly issues thereof,
beginning with the issue of
8-16, 1995,
and ending with the issue of
8-23, 1995

Marianne Chaney
Subscribed and sworn to me this

23rd day of
August, 1995

John L. Smith
Notary Public
Residing at Emmett, Idaho

MY COMMISSION EXPIRES
JUNE 21st, 1997

My Commission Expires

NOTICE OF APPLICATION FOR WATER RIGHT

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

65-13627

HEFFNER, DONALD D.
HEFFNER, DONNA
4811 MONTGOMERY RD
EMMETT, ID 83617
Source: PAYETTE RIVER
Diversion Pt: LOT 4 (SWNE)
Use: IRRIGATION
STOCKWATER

Tributary: SNAKE RIVER
Sec 21 T 07N R 01E in GEM County.
(1.200 CFS)
(0.010 CFS)
(1.210 CFS)

Total Diversion:

Date Filed: 7/20/1995

In: GEM County

T07N R01E S16

S21

SWSE

NWNE

Lot 4(SWNE)

60.0 ACRES TOTAL

65-13628

GEOTHERMAL INVESTMENT CORP

7880 N HWY 52

SWEET, ID 83670

Source: GROUNDWATER

Diversion Pt:

Use: HEATING

Total Diversion:

Date Filed: 7/11/1995

In: GEM County

T07N R01E S08

SESE

SESE Sec 8 T 07N R 01E in GEM County.
(0.070 CFS)
(0.070 CFS)

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 SEPTEMBER 5, 1995. The protestant must also send a copy
of the protest to the applicant.

KARL J. DREHER,
Director

Pub.: 8 - 16, 23, 1995

Legal Notice No. 2294
Published in the Messenger Index

NOV 14 1995

65-13628

GEOHERMAL INVESTMENT CORP
7880 N HYW 52
SWEET, ID 83670

Source: GROUNDWATER

Diversion Pt: SESE Sec 8 T 07N R 01E in GEM County.

Use: HEATING (0.070 CFS)
Total Diversion: (0.070 CFS)

Date Filed: 7/11/1995

In: GEM County
T07N R01E S08 SESE

RECEIVED
JUL 14 1995