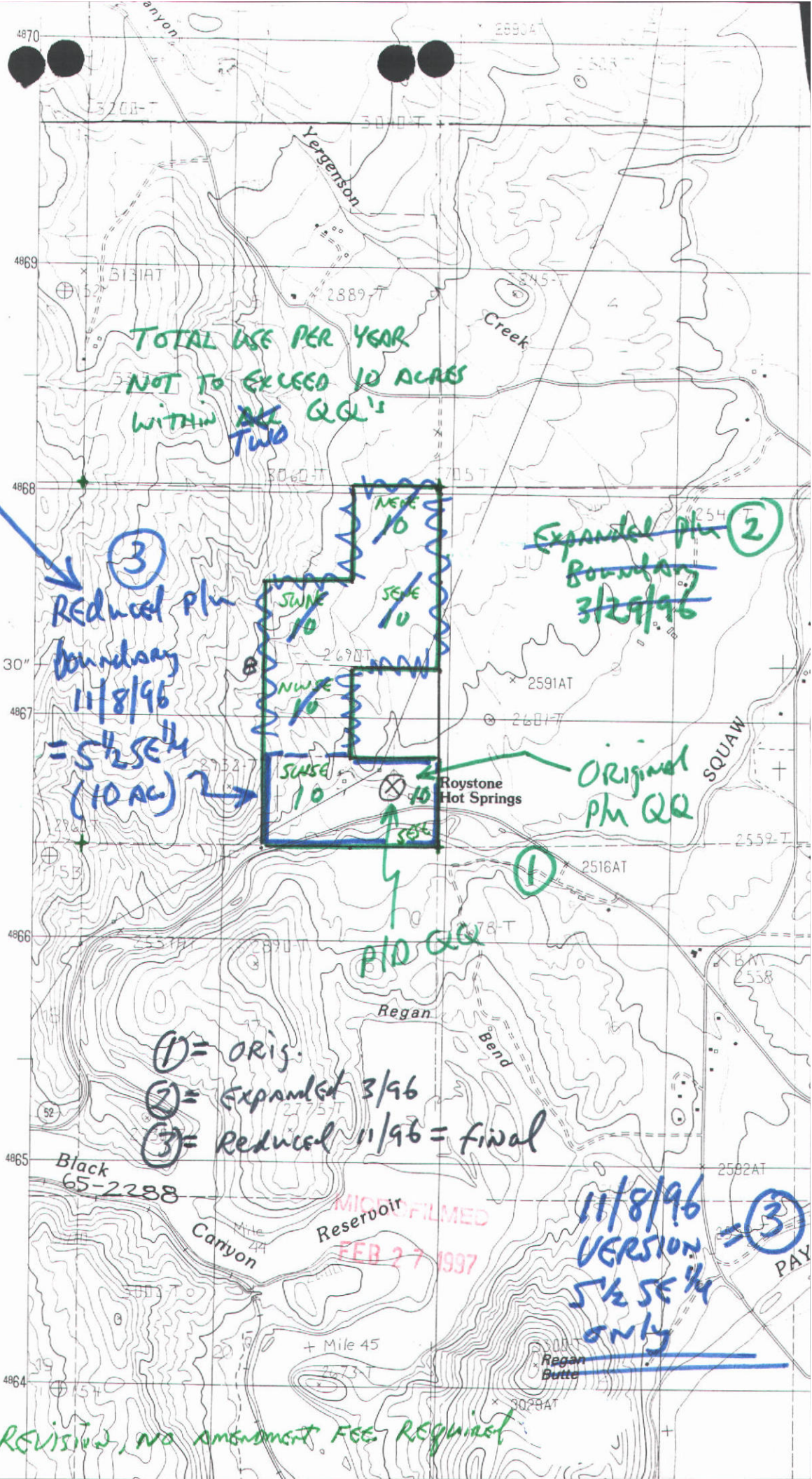
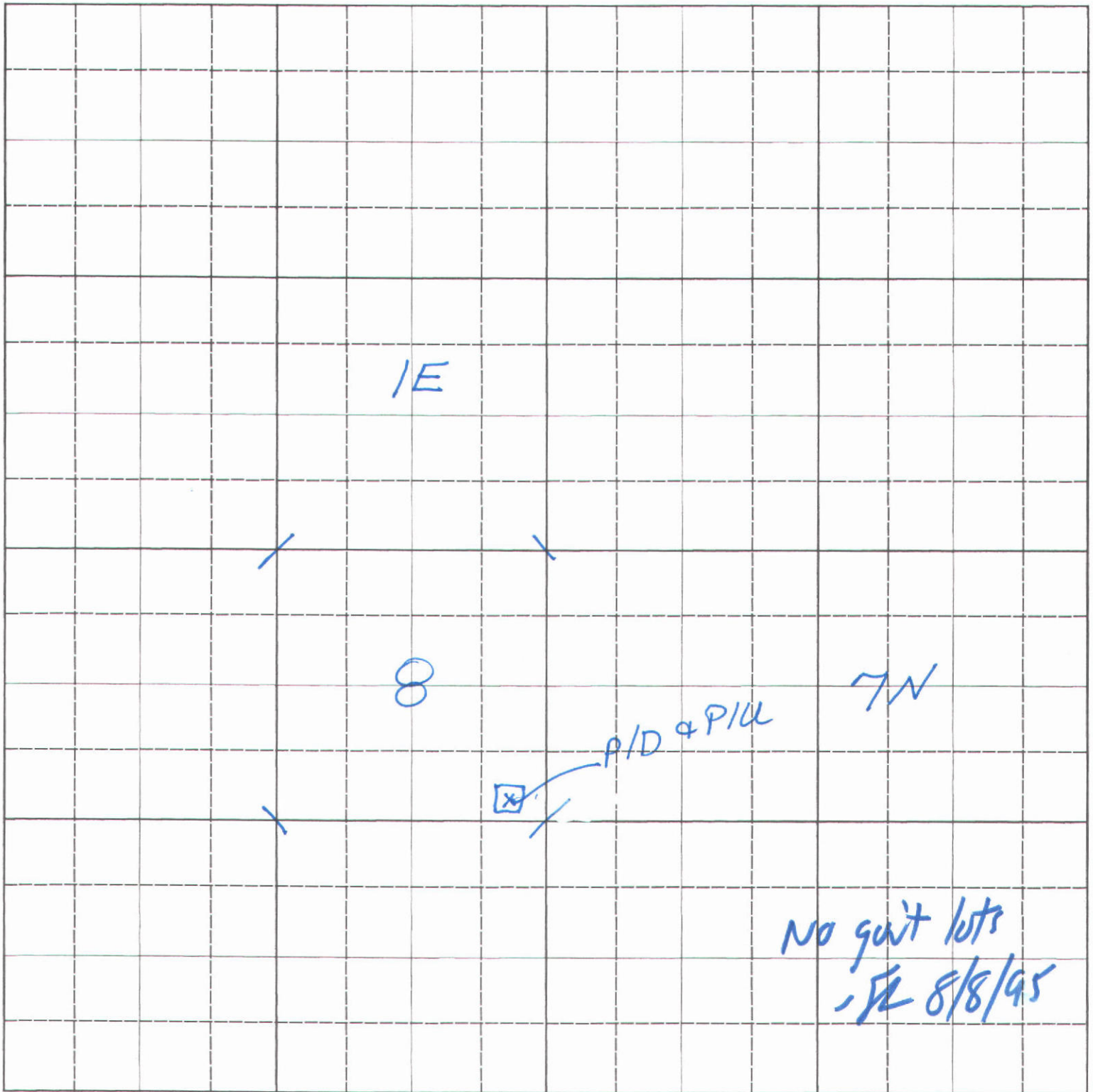


3/29/96 - "AMENDCO"  
PRIOR TO  
ADVERTISING = REVISION, NO AMENDMENT FEE REQUIRED



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



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.

*Louis E. Johns* Pres.  
(Applicant)  
MICROFILMED  
FEB 27 1997

Idaho Dept. of Water Resources  
Place of Use Comparison Report

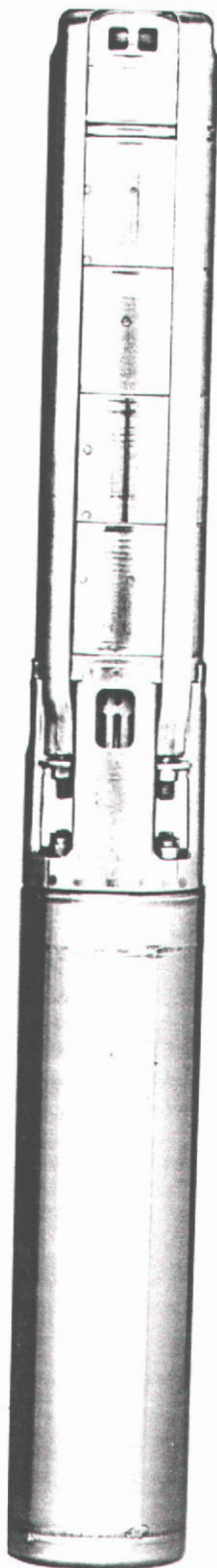
MODEL  
**75S**

**75 GPM**

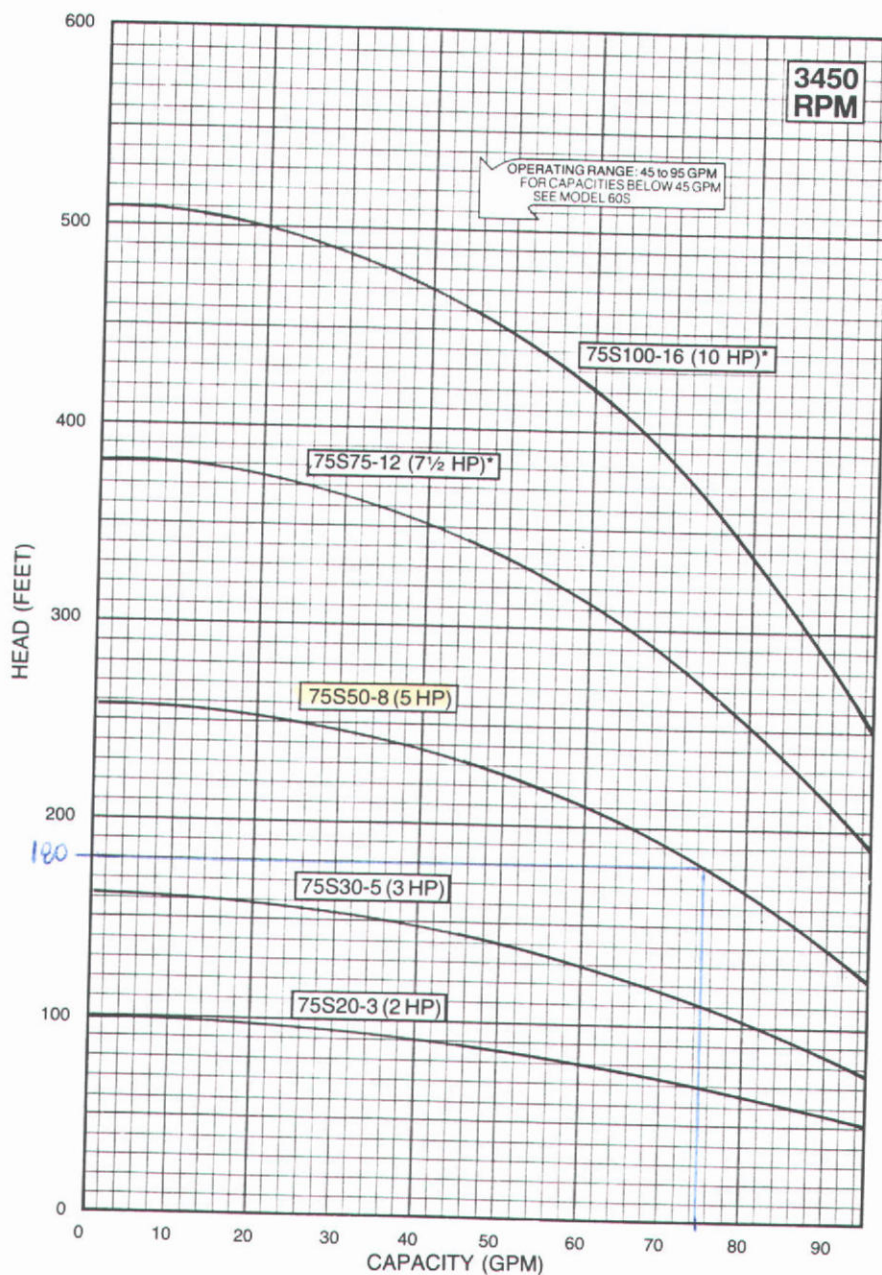
**GRUNDFOS**

FLOW RANGE  
**45 to 95 GPM**

PUMP OUTLET  
**2" NPT**



## PERFORMANCE CURVES



## DIMENSIONS AND WEIGHTS

| MODEL NO. | HP     | LENGTH (INCHES) | WIDTH (INCHES) | APPROX. UNIT SHIPPING WT. (LBS.) |
|-----------|--------|-----------------|----------------|----------------------------------|
| 75S20-3   | 2      | 28 5/8          | 3 15/16        | 38                               |
| 75S30-5   | 3      | 40 3/4          | 3 15/16        | 64                               |
| 75S50-8   | 5      | 51 1/4          | 3 15/16        | 78                               |
| 75S75-12  | 7 1/2* | 67 1/2          | 3 15/16        | 100                              |
| 75S100-16 | 10*    | 92 1/8          | 3 15/16        | 155                              |

Specifications are subject to change without notice.

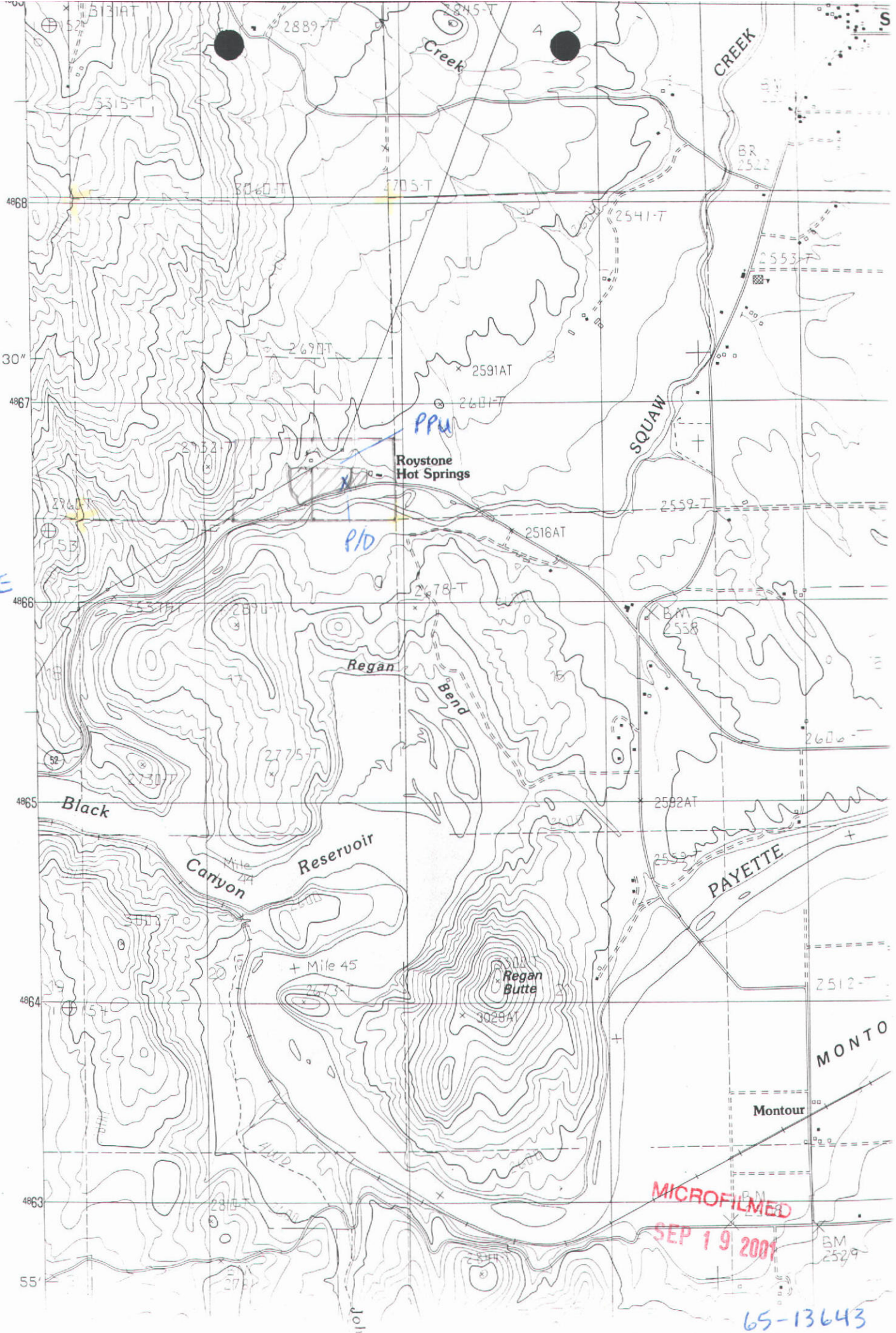
\* A 4-inch motor is provided as standard on these models.

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SEP 19 2001

65-13643

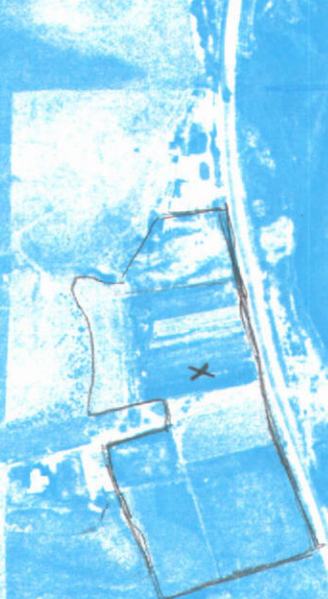
T7N  
R1E  
Sec 8  
S 1/2 SE  
P/D: SESE



65-13643

65-13643

LOW  
ELEVATION



T122

17.06

24.0

2.0

MICROFILMED  
SEP 19 2001



P/u



MICROFILMED  
SEP 19 2001

65-13643



P/D  
6" well  
5 HP submersible pump

MICROFILMED  
SEP 19 2001

65-13643

# 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 two

consecutive weekly issues thereof,  
beginning with the issue of  
April 17, 1996,

and ending with the issue of  
April 24, 1996

Marianne Chaney  
Subscribed and sworn to me this

24th day of  
April, 1996  
Jeanne Gies

Notary Public

Residing at Emmett, Idaho

My Commission Expires \_\_\_\_\_

RECEIVED

APR 29 1996

WATER RESOURCES  
WESTERN REGION

## NOTICE OF APPLICATION FOR WATER RIGHT

The following application(s) have been filed to appropriate the public waters of  
the State of Idaho: ✓st  
65-13643  
GEOHERMAL INVESTMENT CORP  
7880 N HWY 52  
SWEET, ID 83670

Source: GROUNDWATER

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

Use: IRRIGATION { 0.200 CFS)  
HEATING { 0.200 CFS)  
Total Diversion: { 0.200 CFS)

Date Filed: 3/29/1996

In: GEM County  
T07N R01E S08 NENE SWNE SENE NWSE  
SWSE SESE

60.0 ACRES TOTAL

Use is for all year heating/irrigation from existing geothermal well limited to 10  
acres in 60 acre site each year.

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 MAY 6, 1996. The protestant must also send a copy of the protest to  
the applicant.

Pub.: 4 - 17, 24, 1996

Legal Notice No. 2510  
Published in the Messenger Index

MICROFILMED

FEB 27 1997

## CONVERSATION MEMORANDUM

DATE

2/31/95

FILE

NAME OF PARTY Louis Johns, Pres. 584-3371EMPLOYEE Steve Latta

RE:

2 Apps. for Permit2 Wells, not integratedMICROFILMED  
FEB 27 1997Integration System  
Description

65-13628 1 → heat home + pool ok to proceed;

65-13643 1 → irrig all year (?) not ok to proceed, yet

not greenhouse(s), 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 1/3 of year) so how  
address 42-233?

Send info c heat value req'd. &  
w/inv to see how want to proceed

MICROFILMED  
FEB 27 1997

State of Idaho  
Department of Water Resources  
**Water Right License**

WATER RIGHT NO. 65-13643

Priority: March 29, 1996

Maximum Diversion Rate: 0.17 CFS  
Maximum Diversion Volume: 147.2 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 February 25, 1997. An examination indicates that the works have  
a diversion capacity of 0.17 cfs of water from

**SOURCE**

GROUND WATER

and a water right has been established as follows

| <b><u>BENEFICIAL USE</u></b> | <b><u>PERIOD OF USE</u></b> | <b><u>DIVERSION RATE</u></b> | <b><u>ANNUAL<br/>DIVERSION VOLUME</u></b> |
|------------------------------|-----------------------------|------------------------------|-------------------------------------------|
| HEATING                      | 09/01 to 06/30              | 0.17 CFS                     | 102.2 AF                                  |
| IRRIGATION                   | 09/01 to 06/30              | 0.17 CFS                     | 45.0 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 |    |    |    |        |
|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--------|
|             | NE | NW | SW | SE | NE | NW | SW | SE | NE | NW | SW | SE | NE | NW | SW | SE | Totals |
| 07N 01E 8   |    |    |    |    |    |    |    |    |    |    |    |    |    |    | X  | X  |        |

**PLACE OF USE:** IRRIGATION

| Twp Rge Sec | NE |    |    |    | NW |    |    |    | SW |    |    |    | SE |    |     |      |        |
|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|------|--------|
|             | NE | NW | SW | SE | NE | NW | SW | SE | NE | NW | SW | SE | NE | NW | SW  | SE   | Totals |
| 07N 01E 8   |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 6.0 | 14.0 | 20.0   |

Total Acres 20

**CONDITIONS OF APPROVAL**

- 1 Heating use is for frost prevention for irrigated row crops
- 2 This right is limited to the irrigation of 10 acres within the place of use described above in a single irrigation season

**MICROFILMED**

SEP 19 2001

State of Idaho  
Department of Water Resources  
**Water Right License**

WATER RIGHT NO. 65-13643

- 3 The right holder shall use the full allotment of appurtenant surface water rights in conjunction with groundwater diverted under this right and shall only divert groundwater under this right when water from the appurtenant surface water rights cannot be delivered to the right holder.
- 4 If the surface water right(s) appurtenant to the place of use is sold, transferred, leased or used on any other place of use, this right to divert groundwater shall not be used without an approved transfer pursuant to Section 42-222, Idaho Code, or approval of the Department if a transfer is not required
- 5 This right when combined with all other rights shall provide no more than 0.02 cfs per acre nor exceed a combined annual maximum diversion volume of 45 0 af at the field headgate for the lands above
- 6 Return flow discharged to a subsurface system must be authorized by a separate injection well permit

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 21<sup>st</sup> day of JUNE, 2001

Acting for

  
KARL J. DREHER  
Director

MICROFILMED

SEP 13 2001

RECEIVED

STATE OF IDAHO  
DEPARTMENT OF WATER RESOURCES

FEB 25 1997

## PROOF OF BENEFICIAL USE

Department of Water Resources

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. #65-13643 Telephone No. 208-584-3371
2. Name(s) of Permit Holder(s): Geothermal Investment Corp.
3. Mailing Address: 7800 N. Hwy 52 Sweet, ID 83670
4. Source of Water: GROUNDWATER If GROUNDWATER (well), Date Drilled: mo. 4 / yr. 79
  - a. Well Driller: Doty Well Drilling Drilling Permit Number:
  - b. OPTIONAL:  
Pump Horsepower: 5 HP Pressure (psi): 60 Dynamic pumping level (ft): 60'
5. Use(s) (as authorized by the water right permit):  
Domestic (No. of households):            Stockwater (No. and type of stock):             
Irrigation (No. of acres): 10 Other: Heating 10 acres
6. Total rate of diversion and/or volume for which proof is submitted: .02 cfs OR 20 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 <u>          </u> | or No <u>X</u> |
|                        | Has the measuring device been installed? | Yes <u>          </u> | or No <u>X</u> |
| Flow Measurement Port: | Is a flow measurement port required?     | Yes <u>          </u> | or No <u>X</u> |
|                        | Has the measurement port been installed? | Yes <u>          </u> | or No <u>X</u> |
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: Louis K Johns Telephone Number: 208-584-3371  
Address: 7800 N. Hwy 52, Sweet, ID. 83670
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 Johns Pres. of G.I.C. Corp.  
(include your title if on behalf of company or organization) Date: 2-24-97

MICROFILMED

MAR 11 1997

State of Idaho  
Department of Water Resources  
**Permit To Appropriate Water**

NO. 65-13643

Proposed Priority: March 29, 1996

Maximum Diversion Rate:

0.20 CFS

This is to certify, that GEOTHERMAL 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> |
|-----------------------|----------------------|--------------------------|
| IRRIGATION            | 09/01 to 06/30       | 0.20 CFS                 |
| HEATING               | 09/01 to 06/30       | 0.20 CFS                 |
|                       | Totals               | 0.20 CFS                 |

LOCATION OF POINT(S) OF DIVERSION:

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

PLACE OF USE: IRRIGATION

| <u>TWN</u> | <u>RGE</u> | <u>SEC</u> | <u>ACRES</u> | <u>ACRES</u> | <u>ACRES</u> | <u>TOTAL</u> |
|------------|------------|------------|--------------|--------------|--------------|--------------|
| 07N        | 01E        | 8          | SWSE 10.0    | SESE 10.0    |              | 20.0         |

Total number of acres irrigated: 20.0

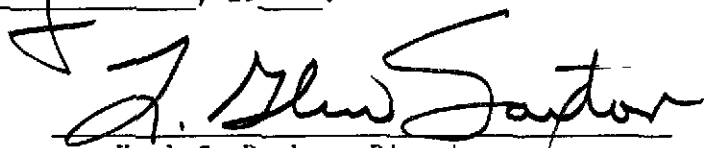
PLACE OF USE: HEATING, same as IRRIGATION use

CONDITIONS OF APPROVAL AND REMARKS

1. Proof of construction of works and application of water to beneficial use shall be submitted on or before February 1, 1998.
2. Subject to all prior water rights.
3. The rate of diversion of water for irrigation under this right and all other water rights on the same land shall not exceed 0.02 cubic feet per second for each acre of land.
4. This right is limited to the irrigation of 10 acres within the place of use described above in a single irrigation season.
5. Heating use is for frost prevention for irrigated row crops.

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

16<sup>th</sup> day of January, 1997.

  
Karl J. Dreher, Director  
for

RECEIVED

DEC 03 1996

Department of Water Resources

Ident. No. 65-13643

STATE OF IDAHO  
DEPARTMENT OF WATER RESOURCES

APPLICATION FOR PERMIT

CHANGES Approved by  
Applicant, see notes  
added to 3/96 version

To appropriate the public waters of the State of Idaho

1. Name: GEOTHERMAL INVESTMENT CORP  
Address: 7880 N HWY 52  
SWEET ID 83670

208-584-3371

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 |
|------------|-------|-------|-------|------|----|
| IRRIGATION | 09/01 | 06/30 | 0.200 |      |    |
| HEATING    | 09/01 | 06/30 | 0.200 |      |    |

5. Total quantity to be appropriated is:

0.200 CFS (and/or) AF

6. Proposed diverting works:

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

EXISTING HOT WELL, SUBM. PUMP, PIPE & SPRINKLERS TO COVERED ROWS

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 FIRM & DATE UNKNOWN BUT @ 1980; WELL TEMP @ 165 F.

Well was drilled for CPF3

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: IRRIGATION

| TWN   | RGE | SEC | ACRES   | ACRES   | ACRES | TOTAL |
|-------|-----|-----|---------|---------|-------|-------|
| * 07N | 01E | 8   | SWSE 10 | SESE 10 |       | 20 *  |

Total number of acres irrigated: 20

SEE Remarks c "PROU"

11/8/96 VERSION: REDUCED FROM 3/96 VERSION PER

APPLICANT'S OFFICE VISIT.

-82 11/8/96

Place of Use: HEATING, same as IRRIGATION use

9. a. Who owns the property at the point of diversion?  
APPLICANT  
b. Who owns the land to be irrigated or place of use?  
KEVIN ANDERSON IN SWSE  
c. If the property is owned by a person other than the applicant,  
describe the arrangement enabling the applicant to make this filing.  
LEASE AGREEMENT (APPLICANT OWNS SESE PORTION OF SITE)

10. Remarks:

Extended irrigation season proposed for low temperature  
geothermal well.

This right is limited to the irrigation of 10 acres within  
the place of use described above in a single irrigation  
season.

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.

See original  
Applicant

*FL* for:  
Received by KW Date 7/11/95 Time 4:30 Preliminary check by FL

\* Fee \$ 50 100.00 Received by KW #W019554 Date 7/11/1995

Publication prepared by ST Date 4/11/96 Published in Messenger Inlet

Publication approved ST Date 5-7-96

\* \$50 65-13628  
\$50 65-13643

D.O.P. advanced to 3/29/96 per acreage & flow expansion  
(all within \$50 fee category) on that date.

See latest "Comments" & appl. revision. *FL* 11/8/96

Comments: Date: 10/ 5/1995 User-ID: SLESTER

Subject: HEAT VALUE FOR WELL

Well drilled @ 1980 per applicant. Now proposes using for year-long irrigation by low-level covering of cultivated rows during traditional non-irrigation season. Applicant still needs to respond to requirements of Section 42-233 @ heat value use. Also has another hot well but for heat-related use (permit issued 9/29/95 for 65-13628). Advertising held pending applicant's response.

Comments: Date: 3/29/1996 User-ID: SLESTER

Subject: WATER USE UPDATE (1st visit 3/19, details final today's visit)

Per applicant's office visit 3/29/96, the use & rate & acres are revised prior to advertising. New use etc. remains within same fee category & amendment fee n/a before original advertising. No additional money is needed, but the priority is advanced to this date of increased use etc. Applicant wants a PPOU or rotation use limited to 10 acres within a 60 acre, six quarter-quarter area. Applicant owns land in SESE & has arrangements with several other owners for use on other tracts. See recent permit 65-13628 for officer information for company. Operator for this proposed use is Don Heffner. Operator & company have used well for uses shown here in a method they devised for heating of crop rows & irrigation of same. Stated that this heat & irrigation system consists of plastic tent-like row covers to keep soil warm & wetted for all year irrigation of crops such as melons, berries, corn, okra etc. This successful method, they said, allows produce to be sold in fruit stands much earlier and much later in irrigation season than normal systems would allow. One example of this is roadside stand in Horseshoe Bend, which I know from personal observation does sell good produce somewhat out of season - now I know why! Therefore, typical heating rate of flow analysis n/a here - system is in place & works, water is not too acidic or basic nor too hot for good yield. This working system is offered as the justification for all year irrigation season & primary utilization of heat value with secondary use of water for irrigation (meeting I.C. 42-233(1) test). In response to question about how hot water that is not cooled can provide irrigation beneficial use in hotter part of year, the users said that no adverse effects have been noted & that hot water works fine here - no summer problems, row covers removed as needed. It appears from their statements that an all year heating and irrigation beneficial use has been achieved through trial and error process -- perhaps additional analysis is not necessary. NOTE: Have used well on @ 3 ac. SESE & now want to expand. Used since about mid-late 1980's, appl. not sure of exact date.

Comments: Date: 11/ 8/1996 User-ID: SLESTER

Subject: LATEST REVISION

Ident. No. 65-13643

Applicant revised application today (reduction not requiring fee, re-advertising or d.o.p. change) to address IDWR concerns. P/U limited to 10 acres per season within 20 acre area in S 1/2 SE 1/4. Property in SWSE owned by Kevin Anderson & applicant has lease agreement to allow access. Season of use limited to exclude hottest months, July & August. Actual use probably will be less than 9/1-6/30, although periodic use at outer limits of revised season could occur depending on severity of weather. Therefore, it appears that heat will be used & followed by irrigation in the non-hottest months of the year. Unusual irrigation season looks approvable per file history. Latest revision allows regional office to recommend approval of this application.

11/8/96 REVISION  
APPROVED  
LK Johns

TOTAL USE PER YEAR  
NOT TO EXCEED 10 ACRES  
WITHIN TWO Q's

T7N  
R1E  
S.8

NO GOV'T lots  
SL 3/19/96

③  
Reduced Plan  
Boundary  
11/8/96  
= 5 1/2 SE 1/4  
(10 AC)

Expanded Plan ②  
Boundary  
3/29/96

Original  
PM Q's

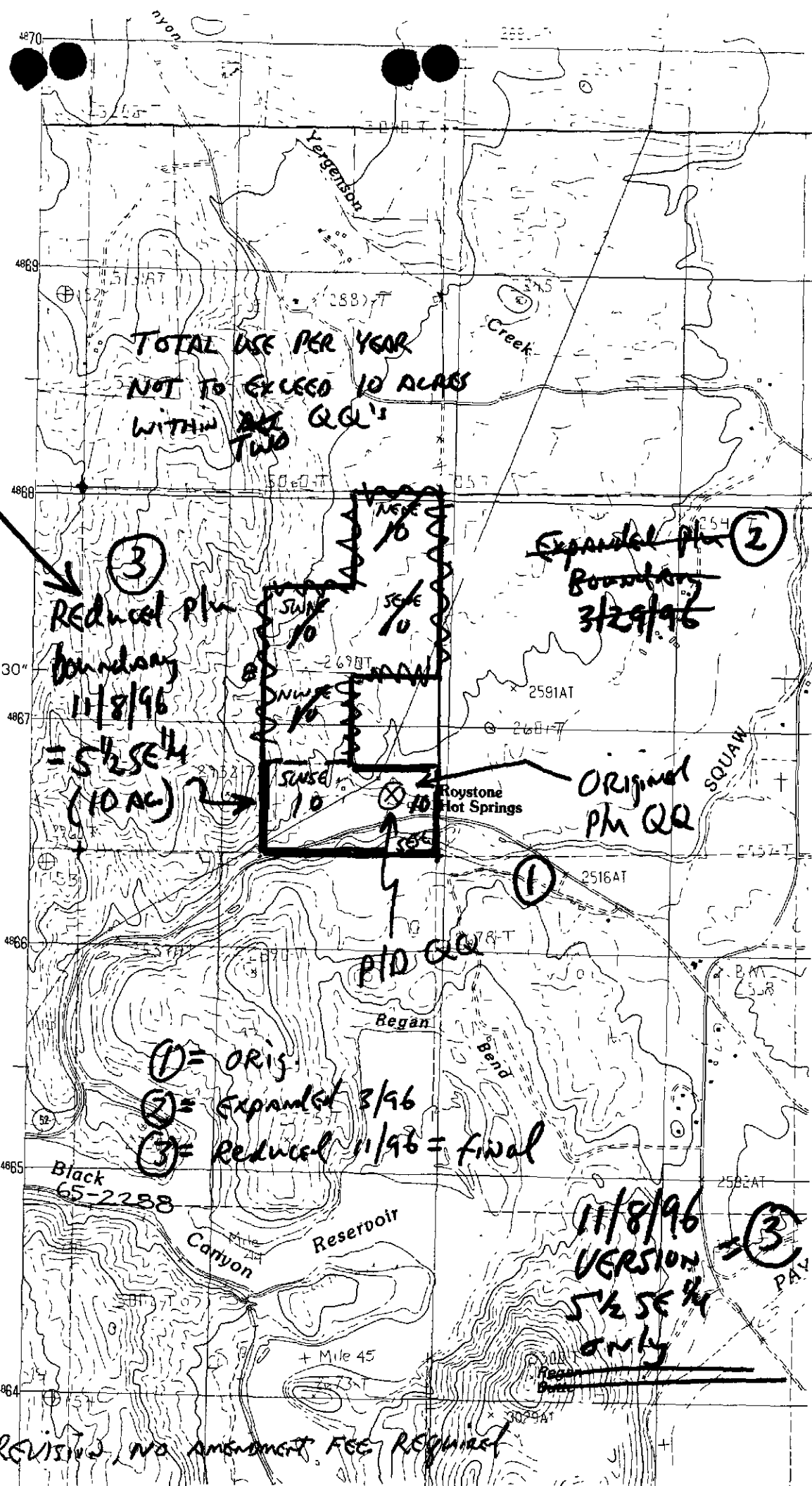
| Q's             | OWNER          |
|-----------------|----------------|
| <del>NENE</del> |                |
| <del>SENE</del> |                |
| <del>SWSE</del> | ALVIN HANLEY   |
| SWSE            | KEVIN ANDERSON |
| SESE            | APPLICANT      |

11/8/96  
③ 65-13643

3/29/96 - "AMENDED"  
PRIOR TO  
ADVERTISING = REVISION, NO AMENDMENT FEE REQUIRED

① = ORIG.  
② = EXPANDED 3/96  
③ = REDUCED 11/96 = FINAL

11/8/96  
VERSION ③  
5 1/2 SE 1/4  
only



RECEIVED  
MAY 13 1996

Ident. No. 65-13643

STATE OF IDAHO  
DEPARTMENT OF WATER RESOURCES

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 HWY 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 |
|------------|-------|-------|-------|------|----|
| IRRIGATION | 01/01 | 12/31 | 0.200 |      |    |
| HEATING    | 01/01 | 12/31 | 0.200 |      |    |
|            | 09/01 | 06/30 |       |      |    |
5. Total quantity to be appropriated is:  
0.200 CFS (and/or) AF
6. Proposed diverting works:
- Description of ditches, flumes, pumps, headgates, etc.  
EXISTING HOT WELL, SUBM. PUMP, PIPE & SPRINKLERS TO COVERED ROWS
  - 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.
  - Proposed well diameter is 6 inches; proposed depth of well is 340 feet.
  - Is groundwater with a temperature greater than 85F being sought? YES
  - If well is already drilled, when?  
Drilling Firm FIRM & EXACT DATE UNKNOWN BUT @ 1980; SOURCE TEMP @ 165 F.  
Well was drilled for CPF3
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: IRRIGATION

| TWN | RGE | SEC | ACRES   | ACRES   | ACRES   | TOTAL |
|-----|-----|-----|---------|---------|---------|-------|
| 07N | 01E | 8   | NENE 10 | SWNE 10 | SENE 10 |       |
|     |     |     | NWSE 10 | SWSE 10 | SESE 10 | 60.20 |

Total number of acres irrigated: 60.20\*

\* SEE REMARKS

ITEM 4 & 8: 11/8/96 Revision

APPROVED

L.K. Johns

REVISED & FINAL VERSION PER APPLICANT 3/29/96  
OFFICE VISIT

Place of Use: HEATING, same as IRRIGATION use

9. a. Who owns the property at the point of diversion?  
APPLICANT (SESE); PLUS OTHERS  
b. Who owns the land to be irrigated or place of use?  
SEVERAL OWNERS  
c. If the property is owned by a person other than the applicant,  
describe the arrangement enabling the applicant to make this filing.  
SEVERAL AGREEMENTS BEING IDENTIFIED

10. Remarks:

Extended irrigation season proposed for low temperature  
geothermal well.

- \* This right is limited to the irrigation of 10 acres within \*  
the place of use described above in a single irrigation  
season.

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

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.

See original & initials on 10/55  
Applicant UGR5102

Received by RL fur KW Date 7/11/95 Time 4:30 Preliminary check by RL

Fee \$ 50 ~~100.00~~ Receipted by KW #W019554 Date 7/11/1995

Publication prepared by At Date 4-11-96 Published in Messenger-Index

Publication approved At Date 5-7-96

\$50 65-13628 } same receipt  
\$50 65-13643 }  
-RL 3/29/96

Note D.O.P. = 3/29/96

\* See "Comments"

Comments: Date: 10/ 5/1995 User-ID: SLESTER

Subject: HEAT VALUE FOR WELL

Well drilled @ 1980 per applicant. Now proposes using for year-long irrigation by low-level covering of cultivated rows during traditional non-irrigation season. Applicant still needs to respond to requirements of Section 42-233 @ heat value use. Also has another hot well but for heat-related use (permit issued 9/29/95 for 65-13628). Advertising held pending applicant's response.

Comments: Date: 3/29/1996 User-ID: SLESTER

Subject: WATER USE UPDATE (1st visit 3/19, details final today's visit)

Per applicant's office visit 3/29/96, the use & rate & acres are revised prior to advertising. New use etc. remains within same fee category & amendment fee n/a before original advertising. No additional money is needed, but the priority is advanced to this date of increased use etc.

Applicant wants a PPOU or rotation use limited to 10 acres within a 60 acre, six quarter-quarter area. Applicant owns land in SESE & has arrangements with several other owners for use on other tracts.

See recent permit 65-13628 for officer information for company. Operator for this proposed use is Don Heffner. Operator & company have used well\* for uses shown here in a method they devised for heating of crop rows & irrigation of same. Stated that this heat & irrigation system consists of plastic tent-like row covers to keep soil warm & wetted for all year irrigation of crops such as melons, berries, corn, okra etc. This successful method, they said, allows produce to be sold in fruit stands much earlier and much later in irrigation season than normal systems would allow. One example of this is roadside stand in Horseshoe Bend, which I know from personal observation does sell good produce somewhat out of season - now I know why! Therefore, typical heating rate of flow analysis n/a here - system is in place & works, water is not too acidic or basic nor too hot for good yield. This working system is offered as the justification for all year irrigation season & primary utilization of heat value with secondary use of water for irrigation (meeting I.C. 42-233(1) test). In response to question about how hot water that is not cooled can provide irrigation beneficial use in hotter part of year, the users said that no adverse effects have been noted & that hot water works fine here - no summer problems, row covers removed as needed. It appears from their statements that an all year heating and irrigation beneficial use has been achieved through trial and error process -- perhaps additional analysis is not necessary. ?

\* Have used on c 3 acres 5656  
but want to expand. Used since  
mid-late 1980's, it appears.

AB assets  
updated SK

Mr. Johns  
Providing  
REST of  
details

also in  
app-  
attached

updates ok by

Ident. No. 65-13643

STATE OF IDAHO  
DEPARTMENT OF WATER RESOURCES

*D.K. Johns* 3/29/96  
initials date

APPLICATION FOR PERMIT

To appropriate the public waters of the State of Idaho

1. Name: GEOTHERMAL INVESTMENT CORP 208-584-3371  
Address: 7880 N HWY 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 |
|------------|-------|-------|-------|------|----|
| IRRIGATION | 01/01 | 12/31 | 0.090 |      |    |
| Heating    | "     | "     | .20   |      |    |
5. Total quantity to be appropriated is:  
0.090 CFS (and/or) AF  
.20
6. Proposed diverting works:
  - a. Description of ditches, flumes, pumps, headgates, etc.  
EXISTING HOT WELL, SUBM. PUMP, PIPELINE & SPRINKLERS
  - 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 DRILLING DAY/MONTH UNKNOWN BUT YEAR @ 1980  
Well was drilled for CPF3
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: IRRIGATION

| TWN | RGE | SEC | ACRES     | ACRES | ACRES | TOTAL |
|-----|-----|-----|-----------|-------|-------|-------|
| 07N | 01E | 8   | SESE 08.0 |       |       | 8.10  |

Total number of acres irrigated: 8.10

NESE 10  
SWNE 10  
SENE 10  
NWSE 10  
SWSE 10

10/95  
VERSION

ppm  
Rotation  
possibly

\$ Rate increase from \$50 to \$100 ; d.o.p. advanced

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:

Extended irrigation season proposed for low temperature geothermal well.

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.

See original  
Applicant

Received by KL for KW Date 7/11/95 Time 4:30 Preliminary check by KL

Fee \$ 50 100.00 Received by KW #W019554 Date 7/11/1995

Publication prepared by \_\_\_\_\_ Date \_\_\_\_\_ Published in \_\_\_\_\_

Publication approved \_\_\_\_\_ Date \_\_\_\_\_

\$ 50 - 65-13628

\$ 50 - 65-13643

\$ 100 - #W019554

-KL 10/5/95

Comments: Date: 10/ 5/ 1995User-ID: SLESTER

Subject:

HEAT VALUE FOR WELL

Well drilled @ 1980 per applicant. Now proposes using for year-long irrigation by low-level covering of cultivated rows during traditional non-irrigation season. Applicant still needs to respond to requirements of Section 42-233 @ heat value use. Also has another hot well but for heat-related use (permit issued 9/29/95 for 65-13628). Advertising held pending applicant's response.

65-13643

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 groundwater 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 0.09 for Irrig. purposes from 1-1 to 12-31 (both dates inclusive)  
(cfs or acre-feet per annum)  
Amount \_\_\_\_\_ for \_\_\_\_\_ purposes from \_\_\_\_\_ to \_\_\_\_\_ (both dates inclusive)  
(cfs or acre-feet per annum)  
Amount \_\_\_\_\_ for \_\_\_\_\_ purposes from \_\_\_\_\_ to \_\_\_\_\_ (both dates inclusive)  
(cfs or acre-feet per annum)  
Amount \_\_\_\_\_ for \_\_\_\_\_ purposes from \_\_\_\_\_ to \_\_\_\_\_ (both dates inclusive)  
(cfs or acre-feet per annum)
5. Total quantity to be appropriated is (a) 0.09 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, submersible pump - 5 HP - to sprinklers
  - 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 CPF3  
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).

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~~

*Irrig. Used to water strawberries, corn, etc.  
during winter months & through out year.*

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 | NE $\frac{1}{4}$ |                  |                  |                  | NW $\frac{1}{4}$ |                  |                  |                  | SW $\frac{1}{4}$ |                  |                  |                  | SE $\frac{1}{4}$ |                  |                  |                  | TOTALS |
|-----|-------|-----|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|--------|
|     |       |     | NE $\frac{1}{4}$ | NW $\frac{1}{4}$ | SW $\frac{1}{4}$ | SE $\frac{1}{4}$ | NE $\frac{1}{4}$ | NW $\frac{1}{4}$ | SW $\frac{1}{4}$ | SE $\frac{1}{4}$ | NE $\frac{1}{4}$ | NW $\frac{1}{4}$ | SW $\frac{1}{4}$ | SE $\frac{1}{4}$ | NE $\frac{1}{4}$ | NW $\frac{1}{4}$ | SW $\frac{1}{4}$ | SE $\frac{1}{4}$ |        |
| 7N  | 1E    | 8   |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | 3                | 3      |
|     |       |     |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |        |
|     |       |     |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |        |
|     |       |     |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |        |
|     |       |     |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |        |
|     |       |     |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |        |
|     |       |     |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |        |
|     |       |     |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |        |
|     |       |     |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |        |
|     |       |     |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |        |

Total number of acres to be irrigated 3

10 Describe any other water rights used for the same purposes as described above. none

11 a Who owns the property at the point of diversion? Applicant

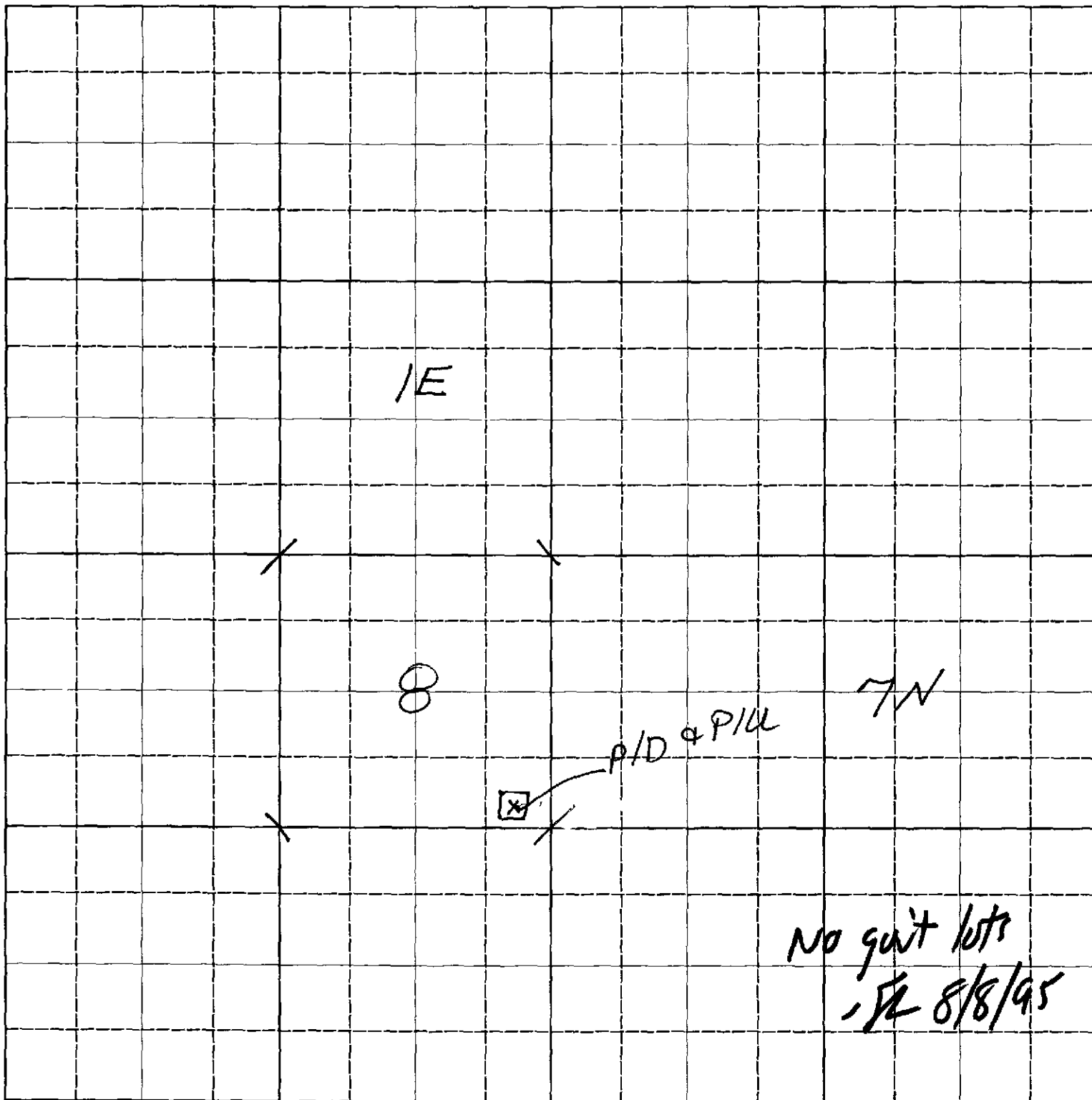
b. Who owns the land to be irrigated or place of use? Applicant

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 on front*  
{ Louis Johns, President  
Ken Johns  
Ward Johns, Vice-President  
Milton Johns - 1209 E. Phillips St., Emmett

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



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 RL  
Fee \$ 50.00 Receipted by KW # W019554 Date 7-11-95  
Publication prepared by \_\_\_\_\_ Date \_\_\_\_\_ Published in \_\_\_\_\_  
Publication approved \_\_\_\_\_ Date \_\_\_\_\_

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### **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:



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](http://www.idwr.state.id.us)

DIRK KEMPTHORNE  
Governor

KARL J. DREHER  
Director

June 22, 2001

GEOTHERMAL INVESTMENT CORP  
7880 N HWY 52  
SWEET ID 83670

RE License No 65-13643 - 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

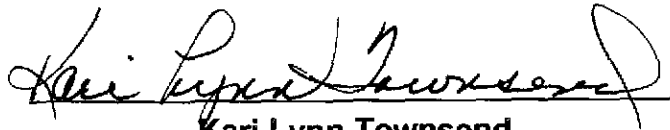
JUN 23 2001

**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. 65-13643**

**GEO THERMAL INVESTMENT CORP  
7880 N HWY 52  
SWEET ID 83670**

  
**Kari Lynn Townsend  
Secretary**

**MICROFILMED**

**SEP 11 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 13 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.

LICENSE REVIEW CHECKLIST

Permit No 65-13643 Date 6-19-01 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)  
File reviewed

65-00155

Profile reports printed ✓

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

Rate of Diversion

Permitted rate 0.30 cfs  
Fee Limit 0.30 cfs  
Measured 0.17 cfs  
Theoretical 0.17 cfs

Recommended Total Diversion Rate 0.17

Water Uses

OK Change (P46)

Season of Use per new Standards

use permitted season

Irrigation 0.17 cfs 45.0 af  
Stockwater 0.17 cfs af  
Domestic 0.17 cfs af  
Heat 0.17 cfs 102.2 af  
Total 0.17 cfs 147.2 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

0.17 cfs x 1 9835 x 303 days = 102. af (vs) 10 acres x 4.5 (FHR) = 45. af

Remarks

W24, ~~R05~~, R07, WB7, 065, 104

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

☒ no

If yes, explain why below

SRBA Claim?

Not req'd

Adjust memo

Amend Letters

P87, S06

Second Amendment Notice

S06

IDAHO DEPARTMENT OF WATER RESOURCES  
Adjudication Recommended Right Report

WATER RIGHT NO 65-155

Owner Type                      Name and Address  
Current Owner                      GEOTHERMAL INVESTMENT CORP  
                                                 LOUIS JOHNS PRESIDENT  
                                                 7880 N HWY 52  
                                                 SWEET, ID 83670  
                                                 (208)584-3371

Original Owner                      GROVER CUMMINGS  
                                                 PO BOX 4  
                                                 SWEET, ID 83670

Priority Date                      04/01/1956  
Basis                                  Decreed  
Status                                Active

Source                                              Tributary to  
SQUAW CREEK                                      PAYETTE RIVER

| <u>Beneficial Use</u> | <u>From</u> | <u>To</u> | <u>Diversion Rate</u> | <u>Volume</u> | <u>Subuse Code</u> |
|-----------------------|-------------|-----------|-----------------------|---------------|--------------------|
| IRRIGATION            | 4/01        | 11/01     | 0.5 CFS               |               |                    |
| Total Diversion       |             |           | 0.5 CFS               |               |                    |

## Location of Point(s) of Diversion

SQUAW CREEK                      SESE                      Sec 08                      Township 07N                      Range 01E                      GEM County

IRRIGATION Use  
Acre Limit: 25

## Place(s) of use

Place of Use Legal Description                      IRRIGATION                      GEM County

| <u>Township</u> | <u>Range</u> | <u>Section</u> | <u>Lot</u> | <u>Tract</u> | <u>Acres</u> | <u>Lot</u> | <u>Tract</u> | <u>Acres</u> | <u>Lot</u> | <u>Tract</u> | <u>Acres</u> | <u>Lot</u> | <u>Tract</u> | <u>Acres</u> |
|-----------------|--------------|----------------|------------|--------------|--------------|------------|--------------|--------------|------------|--------------|--------------|------------|--------------|--------------|
| 07N             | 01E          | 8              |            | SESE         | 25           |            |              |              |            |              |              |            |              |              |

Total Acres 25

## Conditions of Approval.

- 1      C18      THIS PARTIAL DECREE IS SUBJECT TO SUCH GENERAL PROVISIONS NECESSARY FOR THE DEFINITION OF THE RIGHTS OR FOR THE EFFICIENT ADMINISTRATION OF THE WATER RIGHTS AS MAY BE ULTIMATELY DETERMINED BY THE COURT AT A POINT IN TIME NO LATER THAN THE ENTRY OF A FINAL UNIFIED DECREE SECTION 42-1412(6), IDAHO CODE

## Dates

Licensed Date  
Claim Received Date                      01/25/1990  
Enlargement Use Priority Date  
Enlargement Statute Priority Date  
Decreed Date                                01/21/1986  
Date Filed with Court

*exact location  
in this 40 is unknown - 615 shape  
only to 40*

*SRBA*

Objection Filed Date.  
SF5 Filed.  
Special Master Recom Signed Date

Element Reviewed/Verified Dates No dates found

Other Information

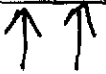
Receipt Number(s) X999999  
State or Federal S  
Owner Name Connector  
Water District Number 65  
Generic Max Rate per Acre  
Generic Max Volume per Acre  
Civil Case Number  
Old Case Number:  
Decree Plaintiff  
Decree Defendant  
PresumptionFlag  
Notice of Error Flag: NONE RECEIVED  
Swan Falls Trust or Nontrust  
Swan Falls Dismissed  
DLE Act Number  
Cary Act Number  
Mitigation Plan False

Verification Log

| <u>Element</u> | <u>Date Time Stamp</u> | <u>Reviewer</u> | <u>Log Text</u>       |
|----------------|------------------------|-----------------|-----------------------|
| POD            | 4/3/01 8 28:09 AM      | shock           | Edited point location |

Idaho Dept. of Water Resources  
Place of Use Comparison Report

| Type  | WR #     | Owner                          | Source               | TRS     | NENE | NWNE | SWNE | SENE | NENW | NWNW | SWNW | SESW | NESW | NWSW | SWSW | SESW | NESE | NWSE | SWSE | SESE | Total |
|-------|----------|--------------------------------|----------------------|---------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|
| Right | 65 13823 | GEOTHERMAL INVESTMENT CORP.    | GROUND WATER         | 07N01E8 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |
| Right | 65 13843 | GEOTHERMAL INVESTMENT CORP.    | GROUND WATER         | 07N01E8 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |
| Right | 65 13843 | GEOTHERMAL INVESTMENT CORP.    | GROUND WATER         | 07N01E8 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |
| Right | 65 1288  | MRS PAUL DARNELL               | ROYSTONE HOT SPRINGS | 07N01E8 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |
| Right | 65 158   | GROVER CUMMINGS                | ROYSTONE HOT SPRINGS | 07N01E8 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |
| Right | 65 391   | JOHN SWANDER, ALBERT W SWANDER | SPRING               | 07N01E8 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |
| Right | 65 100   | ALVIN HADLEY, STELLA HADLEY    | SPRINGS              | 07N01E8 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |
| Right | 65 12347 | JOHN SWANDER, A W SWANDER      | SPRINGS              | 07N01E8 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |
| Right | 65 155   | GROVER CUMMINGS                | SQUAW CREEK          | 07N01E8 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |



STATE OF IDAHO  
DEPARTMENT OF WATER RESOURCES  
**BENEFICIAL USE FIELD REPORT**

RECEIVED

SEP 10 1998

Department of Water Resources

**A. GENERAL INFORMATION**

Permit No. 25-13643

1. Owner: Green Mountain Irrigation Corp Phone No. 584-3371

Current Address: 7880 W Hwy 52 Sweet ID 83270

2. Accompanied by: Tom Hoff EXAM DATE: 5/22/98

Address: Green Phone No. 584-3383

Relationship to Permit Holder: owner

3. Source: Green Mountain tributary to

**B. OVERLAP REVIEW**

1. Other water rights with the same place of use: 25-00155

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 |
|-----------|-----------|-----|-----|-----|------|------|------|--------|---------------------------------|
|           |           |     | SW  | SE  | 8    | 10   | 1E   | Blaine | Quick map, Exam.                |
|           |           |     |     |     |      |      |      |        |                                 |
|           |           |     |     |     |      |      |      |        |                                 |
|           |           |     |     |     |      |      |      |        |                                 |

**2. Place(s) of Use:**

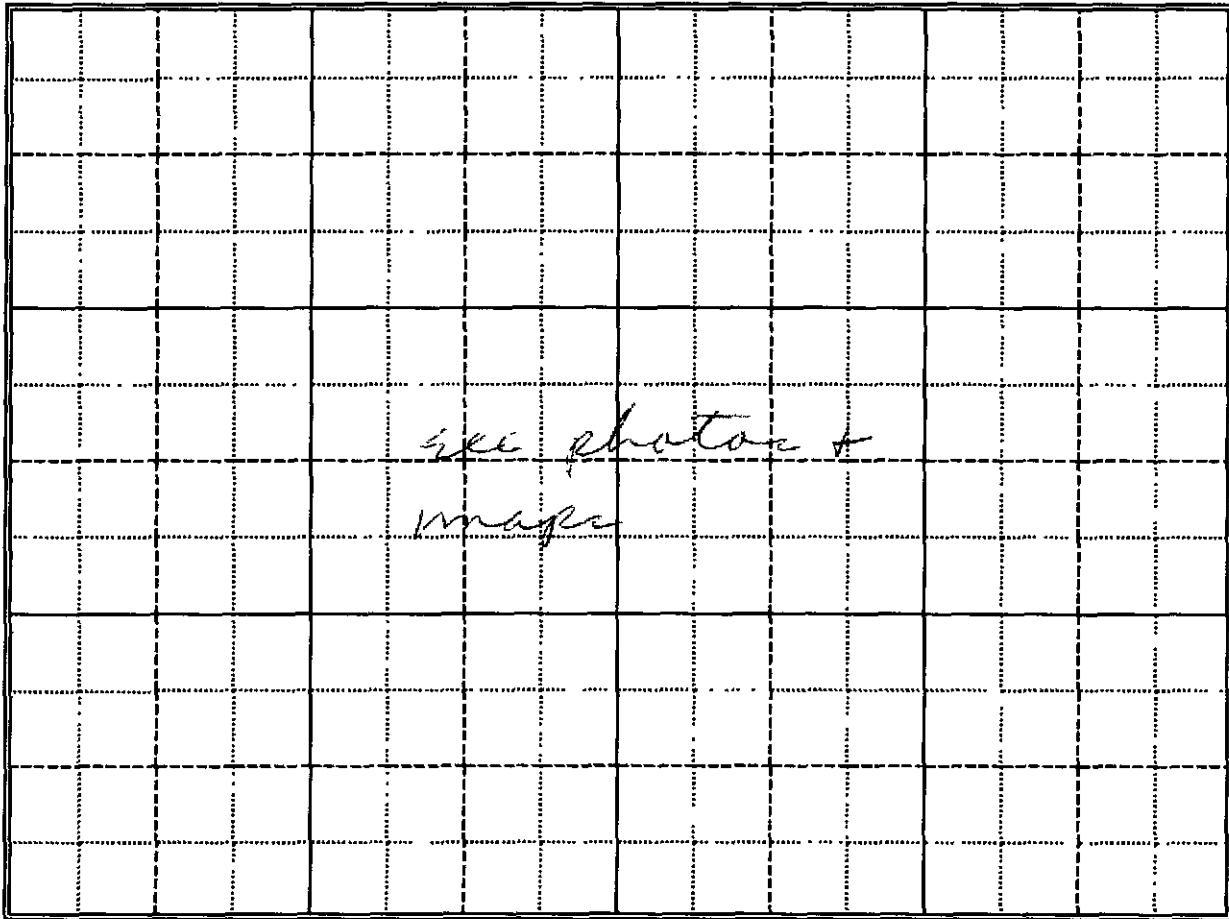
Indicate Method of Determination

| 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  | 1E  | 8   |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 6  | 14 | 20     |
|     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |        |
|     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |        |
|     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |        |
|     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |        |
|     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |        |
|     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |        |
|     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |        |
|     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |        |

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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 |
|---------------------------------------|------------|----|------------------|-----------|-----------------------------------|
|                                       |            | 5  | submersible      |           |                                   |
|                                       |            |    |                  |           |                                   |
|                                       |            |    |                  |           |                                   |

\*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 Curve - 75 GPM - 17 cfs  
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# E. NARRATIVE/REMARKS/COMMENTS

A 6" galv. steel well equipped with a 5HP submersible pump provides water for heating & irrigation for ~10 acres of produce crops. With special extensions a 3" mainline feeds either a 4" heating hose or a 1" perforated irrigation hose. The hoses run down the middle of the crop rows. The crop rows are covered with a plastic sheet to capture the heat from the 4" hose, which warms the soil and allows produce crops to be harvested earlier and later than normal. The hot water from the 1" perforated hose does not seem to negatively affect the crop yield. This method of farming is very labor intensive but worth the effort because of the higher price charged in the off season for fresh local produce.

10 acres of produce crops are planted throughout a 20 acre place of use. Irrigation is limited to 10 acres due to system capacity and permit limitations. The amounts recommended for heating are based on designed system capacity (CFS) and potential volume (cfs) used in the irrigation calculations.

The property also uses surface water from Ogawa Creek (105-00155) via 5HP portable pump.

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

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**F. FLOW CALCULATIONS**

\_\_\_\_ Additional Computation Sheets Attached

Measured Method:

Pumping Capacity = 75 G.P.M. per pump curve = .17 cfs

**G. VOLUME CALCULATIONS**

## 1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 10 \times 4.5 = 45$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation Season}) \times 1.9835 = .17 \times 363 \times 1.9835 = 102.7$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 45$$

## 2. Volume Calculations for Other Uses:

**H. RECOMMENDATIONS**

## 1. Recommended Amounts

| Beneficial Use | Period of Use |      | Rate of Diversion<br>Q (cfs) | Annual Volume<br>V (afa) |
|----------------|---------------|------|------------------------------|--------------------------|
|                | From          | To   |                              |                          |
| Irrigation     | 4-1           | 6-30 | .17                          | 45                       |
| Recreation     | 4-1           | 6-30 | .17                          | 102.2                    |
|                |               |      |                              |                          |
|                |               |      |                              |                          |
|                |               |      |                              |                          |
| Totals:        |               |      | .17                          | 147.2                    |

## 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**Field Examiner's Name Jim Lamm Date 6/28/98

Reviewer \_\_\_\_\_ Date \_\_\_\_\_

SEAL  
MICROFILMED

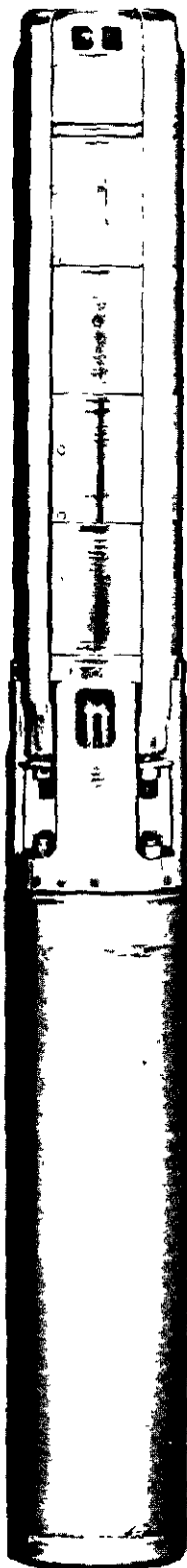
MODEL  
**75S**

**75 GPM**

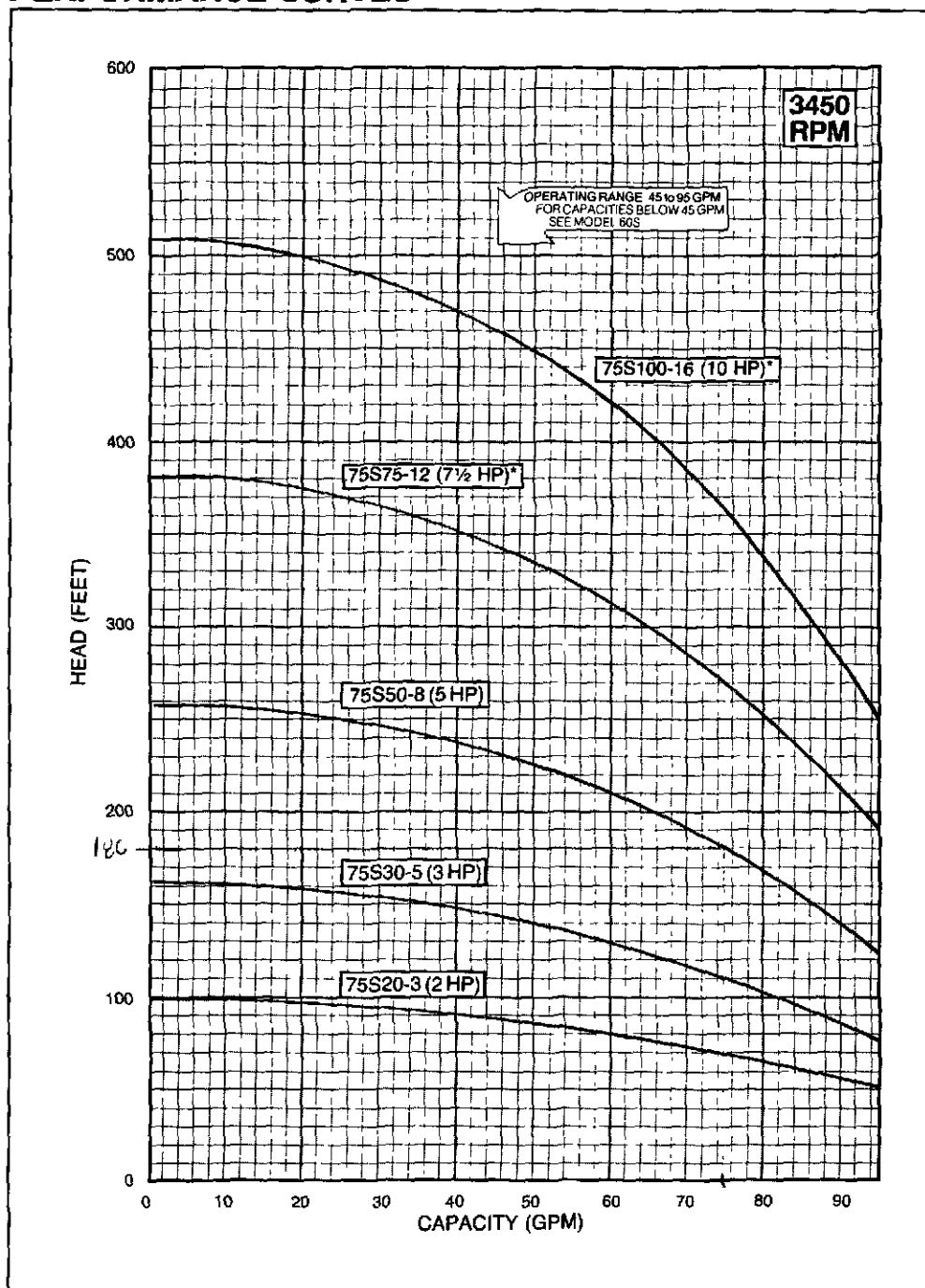
**GRUNDFOS**

FLOW RANGE  
**45 to 95 GPM**

PUMP OUTLET  
**2" NPT**



### PERFORMANCE CURVES



### DIMENSIONS AND WEIGHTS

| MODEL NO. | HP     | LENGTH (INCHES) | WIDTH (INCHES) | APPROX. UNIT SHIPPING WT. (LBS.) |
|-----------|--------|-----------------|----------------|----------------------------------|
| 75S20-3   | 2      | 28 5/8          | 3 15/16        | 38                               |
| 75S30-5   | 3      | 40 3/4          | 3 15/16        | 64                               |
| 75S50-8   | 5      | 51 1/4          | 3 15/16        | 78                               |
| 75S75-12  | 7 1/2* | 67 1/2          | 3 15/16        | 100                              |
| 75S100-16 | 10*    | 92 1/8          | 3 15/16        | 155                              |

Specifications are subject to change without notice

\* A 4-inch motor is provided as standard on these models

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SEP 15 2001

65-13643

**GRUNDFOS****75 GPM****MODEL  
75S****SELECTION CHARTS**

(Ratings are in GALLONS PER HOUR - GPH)

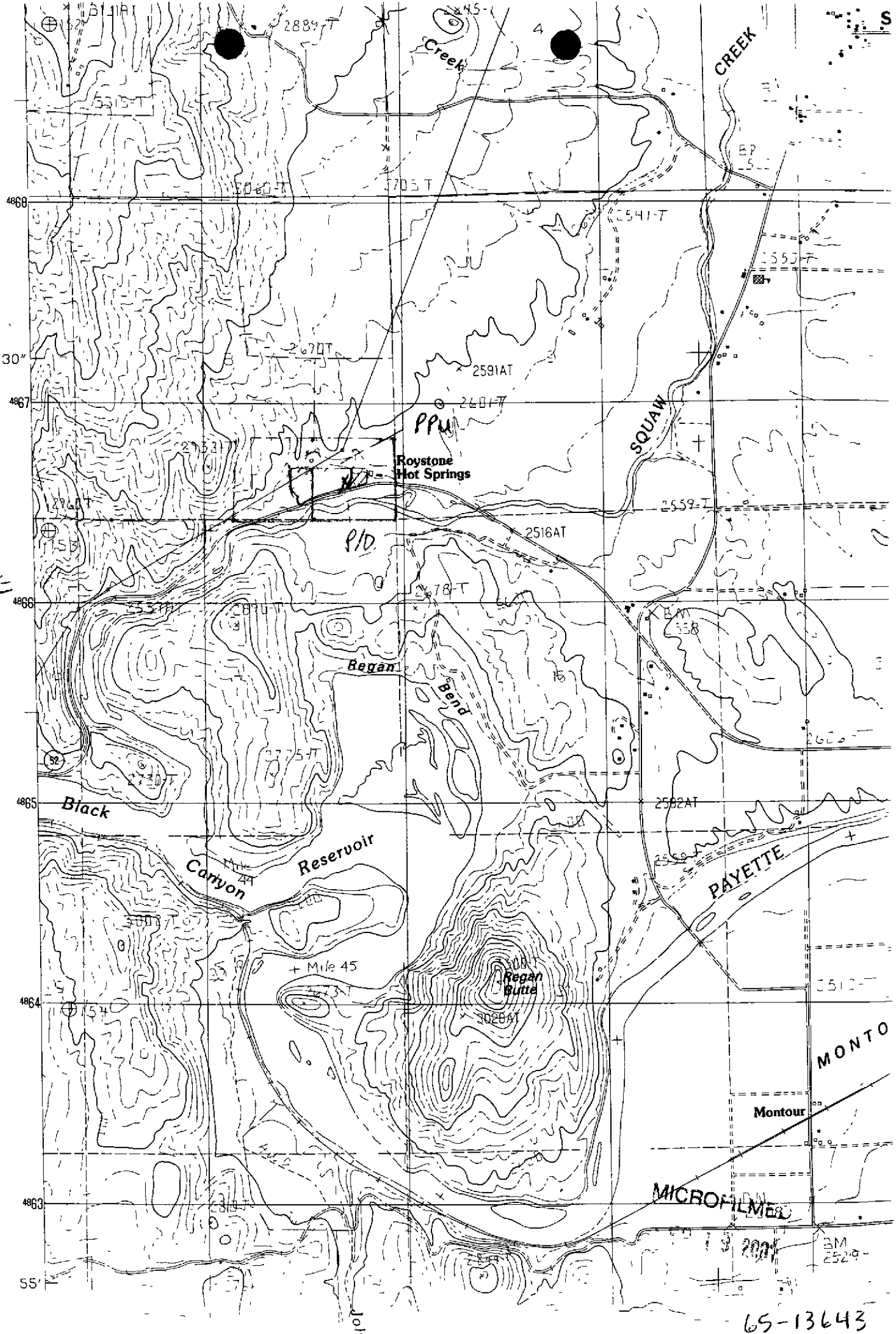
**FLOW RANGE  
45 to 95 GPM****PUMP OUTLET  
2" NPT**

| PUMP MODEL    | HP | PSI | DEPTH TO PUMPING WATER LEVEL (LIFT) IN FEET |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |     |     |     |     |     |     |      |      |
|---------------|----|-----|---------------------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|------|------|
|               |    |     | 20                                          | 40   | 60   | 80   | 100  | 120  | 140  | 160  | 180  | 200  | 220  | 240  | 260  | 280  | 300  | 340  | 400  | 460 | 520 | 600 | 700 | 800 | 900 | 1000 | 1100 |
| 75S20-3       | 2  | 0   |                                             | 5925 | 4730 | 3535 |      |      |      |      |      |      |      |      |      |      |      |      |      |     |     |     |     |     |     |      |      |
|               |    | 20  | 4175                                        | 2750 | 1375 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |     |     |     |     |     |     |      |      |
|               |    | 30  | 2170                                        |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |     |     |     |     |     |     |      |      |
|               |    | 40  | 745                                         |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |     |     |     |     |     |     |      |      |
|               |    | 50  |                                             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |     |     |     |     |     |     |      |      |
|               |    | 60  |                                             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |     |     |     |     |     |     |      |      |
| Shut-off PSI: |    |     | 32                                          | 23   | 14   | 6    |      |      |      |      |      |      |      |      |      |      |      |      |      |     |     |     |     |     |     |      |      |
| 75S30-5       | 3  | 0   |                                             |      | 5930 | 5410 | 4730 | 4055 |      |      |      |      |      |      |      |      |      |      |      |     |     |     |     |     |     |      |      |
|               |    | 20  | 5780                                        | 5205 | 4490 | 3775 | 1890 |      |      |      |      |      |      |      |      |      |      |      |      |     |     |     |     |     |     |      |      |
|               |    | 30  | 5105                                        | 4450 | 3110 | 1770 | 890  |      |      |      |      |      |      |      |      |      |      |      |      |     |     |     |     |     |     |      |      |
|               |    | 40  | 4210                                        | 3425 | 1715 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |     |     |     |     |     |     |      |      |
|               |    | 50  | 2115                                        |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |     |     |     |     |     |     |      |      |
|               |    | 60  | 1450                                        |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |     |     |     |     |     |     |      |      |
| Shut-off PSI: |    |     | 58                                          | 49   | 41   | 32   | 23   | 15   |      |      |      |      |      |      |      |      |      |      |      |     |     |     |     |     |     |      |      |
| 75S50-8       | 5  | 0   |                                             |      |      |      |      | 5600 | 5190 | 4775 | 4320 | 3870 | 2815 | 1765 |      |      |      |      |      |     |     |     |     |     |     |      |      |
|               |    | 20  |                                             |      | 5845 | 5475 | 5060 | 4650 | 4165 | 3675 | 2420 | 1165 | 585  |      |      |      |      |      |      |     |     |     |     |     |     |      |      |
|               |    | 30  |                                             | 5815 | 5405 | 4995 | 4575 | 4155 | 3370 | 2585 | 1295 |      |      |      |      |      |      |      |      |     |     |     |     |     |     |      |      |
|               |    | 40  | 5730                                        | 5345 | 4935 | 4525 | 3990 | 3450 | 1725 |      |      |      |      |      |      |      |      |      |      |     |     |     |     |     |     |      |      |
|               |    | 50  | 5280                                        | 4870 | 4435 | 4000 | 3070 | 2145 | 1075 |      |      |      |      |      |      |      |      |      |      |     |     |     |     |     |     |      |      |
|               |    | 60  | 4810                                        | 4400 | 3790 | 3180 | 1590 |      |      |      |      |      |      |      |      |      |      |      |      |     |     |     |     |     |     |      |      |
| Shut-off PSI: |    |     | 98                                          | 90   | 81   | 72   | 64   | 55   | 46   | 38   | 29   | 20   | 12   | 3    |      |      |      |      |      |     |     |     |     |     |     |      |      |
| 75S75-12      | 7½ | 0   |                                             |      |      |      |      |      | 5870 | 5600 | 5330 | 5060 | 4785 | 4505 | 4225 | 3820 | 2605 |      |      |     |     |     |     |     |     |      |      |
|               |    | 20  |                                             |      |      |      |      | 5790 | 5520 | 5245 | 4975 | 4700 | 4410 | 4125 | 3685 | 3240 | 2325 | 705  |      |     |     |     |     |     |     |      |      |
|               |    | 30  |                                             |      |      |      | 5740 | 5480 | 5205 | 4930 | 4655 | 4385 | 4035 | 3685 | 3020 | 2360 | 1180 |      |      |     |     |     |     |     |     |      |      |
|               |    | 40  |                                             |      |      | 5710 | 5435 | 5160 | 4890 | 4620 | 4320 | 4020 | 3535 | 3045 | 2010 | 975  | 490  |      |      |     |     |     |     |     |     |      |      |
|               |    | 50  |                                             |      | 5660 | 5395 | 5120 | 4845 | 4570 | 4295 | 3915 | 3540 | 2795 | 2050 | 1025 |      |      |      |      |     |     |     |     |     |     |      |      |
|               |    | 60  | 5875                                        | 5630 | 5350 | 5075 | 4805 | 4535 | 4220 | 3910 | 3365 | 2820 | 1410 |      |      |      |      |      |      |     |     |     |     |     |     |      |      |
| Shut-off PSI: |    |     | 151                                         | 142  | 133  | 125  | 116  | 107  | 99   | 90   | 81   | 73   | 64   | 55   | 47   | 38   | 29   | 12   |      |     |     |     |     |     |     |      |      |
| 75S100-16     | 10 | 0   |                                             |      |      |      |      |      |      |      |      | 5800 | 5605 | 5400 | 5190 | 4990 | 4580 | 3880 | 2455 |     |     |     |     |     |     |      |      |
|               |    | 20  |                                             |      |      |      |      |      |      |      | 5740 | 5545 | 5335 | 5130 | 4925 | 4720 | 4510 | 4045 | 2960 | 750 |     |     |     |     |     |      |      |
|               |    | 30  |                                             |      |      |      |      |      |      | 5715 | 5510 | 5305 | 5100 | 4890 | 4690 | 4485 | 4255 | 3695 | 2225 |     |     |     |     |     |     |      |      |
|               |    | 40  |                                             |      |      |      | 5880 | 5680 | 5480 | 5270 | 5065 | 4860 | 4660 | 4445 | 4235 | 3960 | 3240 | 1195 |      |     |     |     |     |     |     |      |      |
|               |    | 50  |                                             |      |      | 5840 | 5655 | 5445 | 5240 | 5035 | 4830 | 4625 | 4420 | 4180 | 3945 | 3585 | 2610 |      |      |     |     |     |     |     |     |      |      |
|               |    | 60  |                                             |      | 5820 | 5620 | 5415 | 5210 | 5000 | 4800 | 4595 | 4380 | 4160 | 3870 | 3575 | 3090 | 1300 |      |      |     |     |     |     |     |     |      |      |
| Shut-off PSI: |    |     |                                             |      |      | 178  | 170  | 161  | 152  | 144  | 135  | 126  | 118  | 109  | 100  | 92   | 83   | 66   | 40   | 14  |     |     |     |     |     |      |      |

MICROFILMED

DATE 10/10/88

T7N  
R1E  
Sec 8  
S 1/2 SE  
P/D: SESE



65-13643



T122

1710

24.0

2.0

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SEP 19 2000

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$$1 \text{ mi} = 8''$$

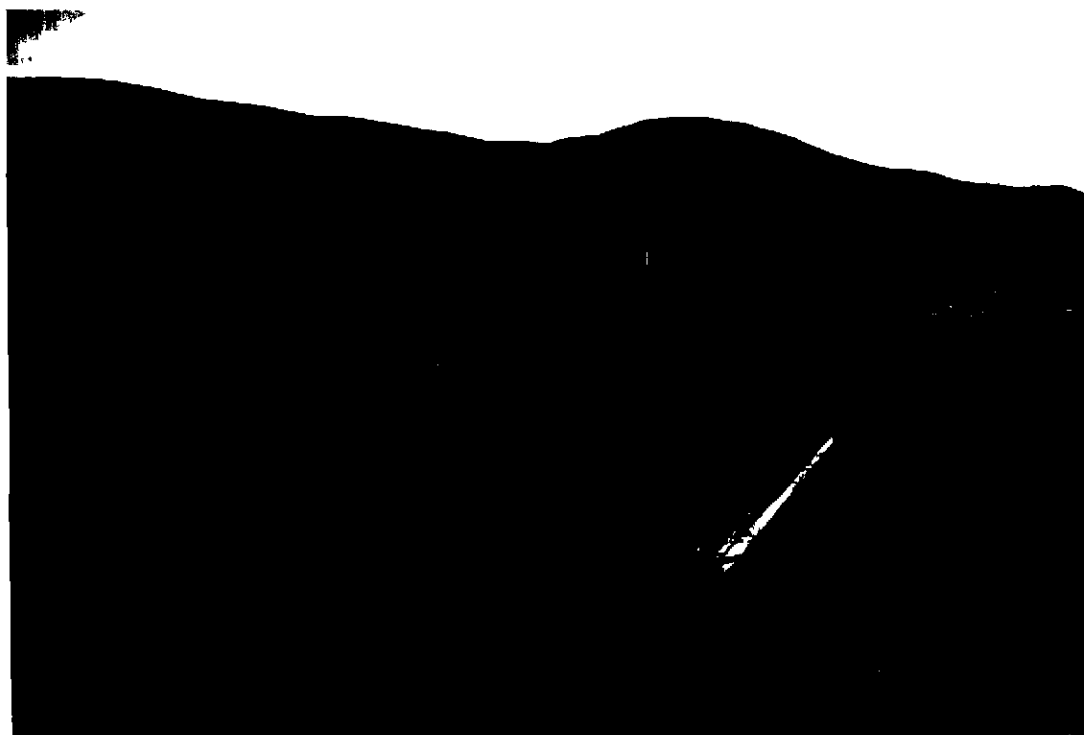
$$\frac{8 \text{ lot} \times 10}{8^2} = 12.5$$

3.5 acres = Paved area  
12.5 acres : arable  
8 acres irrigated etc.

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MAY 26 1998  
WATER RESOURCES  
WESTERN REGION

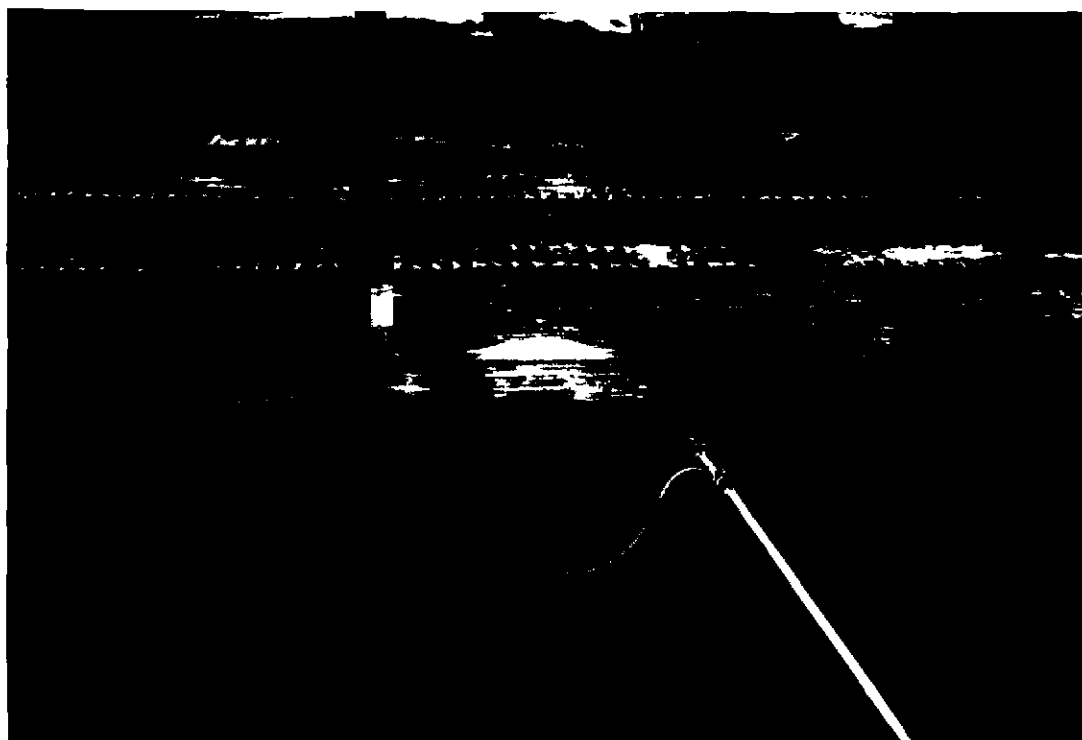


P/61



MICROFILMED  
SEP 19 2001

55-13643



K/D  
6" well  
5 HP submersible pump

MICROFILMED  
OCT 10 2004

65-13643

# IDAHO DEPARTMENT OF WATER RESOURCES

## WELL INSPECTION FORM

1. DRILLING PERMIT NO: \_\_\_\_\_ OTHER APPLICABLE NO: 65-13643

2. OWNER: Geothermal Invest Corp Phone: 584-3371  
Address: Invest

3. WELL LOCATION: Twp 7N, Rge. 1E, Sec. 2, Sec 1/4 Sec 1/4  
County Blaine (Provide sketch map and photo on reverse.)

4. DRILLER: \_\_\_\_\_ Lic. No. \_\_\_\_\_  
When Drilled? 1980

5. WELL CONSTRUCTION:  
Casing Diameter 6 inches ☒ Water tight cap? ☐ Yes ☒ No Access Port: ☒ Yes ☐ No top open  
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 C/C  
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 6 ft. Water Temperature 16.9 °F  
Flowing Artesian ☐ Yes ☒ No Pressure: 66 (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: heating

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SEP 13 2001

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:

No log found

Top should be sealed.

ly  
Signature of Dept. Representative & Title

5/22/98  
Inspection Date

PHOTOS, DRAWINGS, OTHER ATTACHMENTS:

MICROFILMED  
SEP 12 2001

March 3, 1997

GEOHERMAL INVESTMENT CORP  
7880 N HWY 52  
SWEET ID 83670

PROOF ACKNOWLEDGMENT LETTER

RE: PERMIT NO. 65-13643

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.

If you have questions concerning this matter, please feel free to contact the WESTERN Regional Office in Boise at (208)334-2190.

Sincerely,

JULIE L. YARBROUGH  
Senior Secretary

c: IDWR - Region

MICROFILMED  
MAR 15 1997

**ANALYSIS SHEET  
FOR  
PROOF OF BENEFICIAL USE**

Permit No. 65-13643 Reviewed by Jay Date 2-28-97

**GENERAL CONSIDERATIONS**

**TYPES OF USE**

yes Name same as permit?  
yes Address same as permit?  
yes Proof timely received? Correct Uses? yes  
If not, complete calculation below.

**SOURCE OF WATER**

\_\_\_\_\_ Surface water source  
✓ Ground water source  
no Drilling permit required? Per 1987  
\_\_\_\_\_ Copy in the file? Drilling Permit No. \_\_\_\_\_  
\_\_\_\_\_ Amount paid for permit \_\_\_\_\_ Correct?  
\_\_\_\_\_ Well log in the file?

**LICENSE EXAMINATION FEE**

**MEASURING DEVICE**

yes Required?  
50.00 Amount Submitted  
yes Correct?  
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**

Proof acceptable

**DATA ENTRY**

New Address \_\_\_\_\_ Proof Made 2-25-97



State of Idaho

DEPARTMENT OF WATER RESOURCES

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

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

PHILIP E. BATT  
GOVERNOR

KARL J. DREHER  
DIRECTOR

January 17, 1997

GEO THERMAL INVESTMENT CORP  
7880 N HWY 52  
SWEET ID 83670

PERMIT APPROVAL NOTICE

RE: PERMIT NO. 65-13643

Dear Permit Holder:

Enclosed is a copy of your approved application for permit. Please be sure to thoroughly review the "Conditions of Approval and 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 into a licensed water right. Also enclosed is a form entitled "Proof of Beneficial Use". If your project is already completed, you should complete and submit this form immediately.

Also, please note that as of July 1, 1996, water right owners are required to report any change of water right ownership and any change of mailing address to the department. If you have acquired a water right or have changed your mailing address PRIOR TO July 1, 1996, you have until July 30, 1998, to notify the department. If you acquire a water right or change your mailing address AFTER July 1, 1996, you must notify 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 to obtain the proper reporting form.

Sincerely,

A handwritten signature in cursive script that reads "Shelley W. Keen".

Shelley W. Keen  
Water Rights Supervisor

SK:ph

Enclosures

## APPLICATION FOR PERMIT

11/96

## STATE OFFICE REVIEW

by Cindy Zimmerman

Investment Corp.

No.: 65-13643 Name: Geothermal Date: 12/9/96 Ad OK? ☒ ☒ Gvmt Lts: ☒

## AREA OF CONCERN?

- No/Yes: \_\_\_\_\_ Mor / \_\_\_\_\_ GWMA / Trust / Non-trust

## PROTESTED:

- 020 (Protest Agreement)

## SYSTEM COMPLETED:

Yes/proof filed

- NA

1 year/no proof

- **P16**

+1 year

- 26A-P17

## GROUNDWATER: &lt;✓ FLO-CH&gt;

+ 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 &lt;✓ FLO-CH&gt; (Surface water that doesn't sink is regulated):

Water District (~~dem~~)

- 005 (req) WD # \_\_\_\_\_ &lt;SEE MAP &amp; LISTING&gt;

+ 0.2 cfs

- 01J (meas dev)-P08

=/- 0.2 cfs

- 01H (lock dev)-P01 or No MD

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-irr)

- 007-P07 (w/ remark \*WB9- Weiser), NA

Boise River (63)

- 05A (if WD), 11E (not 42-111 use), NA

Payette River (65)

- 064 (regulated uses), 047-P04 (Payette Lake), NA

## USE:

Domestic (surface)

- \*WB5 (Boise River above Star Bridge); 27A (Payette River); NA

Fish Propagation

- 07A-042 (req)-010/06A/09E (WQ)-P10; 044 (North of 1000 Springs)

Irr &lt;POU&gt; =/- 5 a

- 057 (0.03 cfs/acre)

+ 5 a

- 03A (0.02 cfs/acre)

Mining

- 054 (req) &amp; 06A/010/09E-P10

Power

- 08A-17K-025-027-028-01F(P19)-09E(P10);

+25 cfs-P18; 17G (FERC) or 17M (FERG); 18B-P09

Storage (✓3 compo.)

- 18A (multiple MD within district), 18B-P09 (+10' dam), \*W07

## LOCATION:

42-248 area

- In 20/30/40/50/60/70/80 (87) basin? **P84**

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

- \_\_\_\_\_ &lt;SEE CODE CHART&gt;

Trust

- 051-052-053-P74 (Consumptive Uses), NA

Non-Trust &lt;1&gt;

- 048-049 (Consumptive Uses), NA

## OWNERSHIP: Non-owner

- 004 (PD/PU) \_\_\_\_\_

## OTHER CONDITIONS:

## STANDARD REMARKS:

- 0.027 @ Heat/Dn.

## BENEFICIAL USE DUE:

- 2-1-1998

## COMMENTS:

- off season irr. use should be identified as commercial per SWC 4/15/97

## MEMORANDUM

**DATE:** January 14, 1997

**TO:** File 65-13643

**FROM:** Shelley W. Keen <sup>(SWK)</sup>

**RE:** Use of low temperature geothermal water for irrigation

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Application 65-13643 proposes the use of a low temperature geothermal resource as defined in I. C. §42-230(a)(1) for irrigation purposes. I. C. §42-233 says that a low temperature geothermal resource shall be used "primarily for heat value and secondarily for the value as water." It also says that the director may exempt a proposed use if it meets the following criteria:

1. There is no feasible alternative use of the resource.
2. There is no economically viable source of cold water.
3. The exemption is in the public interest

The applicants indicate that they have developed a successful method for using hot water to get vegetables and vine fruits to grow outside the normal irrigation season. They construct a low plastic tent over each row, then run two pipes containing hot water down each row. One pipe carries hot water for heating the air, the other pipe carries hot irrigation water for keeping the soil warm and wet. The regional office is convinced that this method satisfies the requirement for using the resource primarily for its heat value.

As for the exemption criteria, the code does not indicate whether the application has to meet all or only one of the criteria. I will address them one at a time. The applicant holds a permit, 65-13628, for heating a home with water from the same well. This other use indicates to me that there may be a "feasible alternative use." I checked well logs to see if there are any cold water wells in the section. The only well log we have is for a 105 ft well with water at 96 degrees. This would seem to indicate that there may not be an economically viable source of cold water. As for the public interest criterion, I cannot think of any reason why this project would not be in the public interest, especially since advertisement of the proposal generated no protests.

If this application is approved, I would suggest conducting the field examination during the winter to confirm that beneficial use is occurring during the cold months.

STATE OF IDAHO  
DEPARTMENT OF WATER RESOURCES  
**WELL DRILLER'S REPORT**USE TYPEWRITTEN OR  
BALLPOINT PENState law requires that this report be filed with the Director, Department of Water Resources  
within 30 days after the completion or abandonment of the well.

| <b>1. WELL OWNER</b><br>Name <u>R.I. Hunter Cheesbrough Ranch</u><br>Address <u>P.O. Box 98 Emmett Id. 83617</u><br>Drilling Permit No. <u>65-92-C-40</u><br>Water Right Permit No. _____                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |              | <b>7. WATER LEVEL</b><br>Static water level <u>6</u> feet below land surface<br>Flowing? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No G.P.M. flow _____<br>Artesian closed-in pressure _____ p.s.i.<br>Controlled by: <input type="checkbox"/> Valve <input type="checkbox"/> Cap <input type="checkbox"/> Plug<br>Temperature <u>96</u> °F. Quality _____<br>Describe artesian or temperature zones below: _____                                                                                                                                                                                                                                                                                                                                                                                                                       |                |              |            |      |          |              |          |        |         |              |              |                                                                                                                                                                                                                                                                                                                                                                                 |            |              |                |            |            |              |              |            |            |    |    |    |           |     |    |    |    |           |     |   |    |    |           |     |   |    |    |            |     |   |    |     |           |     |   |     |     |            |     |
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| <b>2. NATURE OF WORK</b><br><input checked="" type="checkbox"/> New well <input type="checkbox"/> Deepened <input type="checkbox"/> Replacement<br><input type="checkbox"/> Well diameter increase<br><input type="checkbox"/> Abandoned (describe abandonment procedures such as materials, plug depths, etc. in lithologic log)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |              | <b>8. WELL TEST DATA</b><br><input type="checkbox"/> Pump <input type="checkbox"/> Baler <input checked="" type="checkbox"/> Air <input type="checkbox"/> Other _____<br>Discharge G.P.M. <u>20</u> Pumping Level <u>105</u> Hours Pumped <u>2</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |              |            |      |          |              |          |        |         |              |              |                                                                                                                                                                                                                                                                                                                                                                                 |            |              |                |            |            |              |              |            |            |    |    |    |           |     |    |    |    |           |     |   |    |    |           |     |   |    |    |            |     |   |    |     |           |     |   |     |     |            |     |
| <b>3. PROPOSED USE</b><br><input type="checkbox"/> Domestic <input type="checkbox"/> Irrigation <input checked="" type="checkbox"/> Test <input type="checkbox"/> Municipal<br><input type="checkbox"/> Industrial <input type="checkbox"/> Stock <input type="checkbox"/> Waste Disposal or Injection<br><input type="checkbox"/> Other _____ (specify type)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |              | <b>9. LITHOLOGIC LOG</b> <table border="1"><thead><tr><th>Core Diam.</th><th>Depth From</th><th>To</th><th>Material</th><th>Water Yes/No</th></tr></thead><tbody><tr><td>14</td><td>0</td><td>7</td><td>Brown Clay</td><td>Yes</td></tr><tr><td>14</td><td>7</td><td>26</td><td>Black Boulders</td><td>Yes</td></tr><tr><td>14</td><td>26</td><td>43</td><td>White Sand</td><td>Yes</td></tr><tr><td>14</td><td>43</td><td>55</td><td>Blue Clay</td><td>Yes</td></tr><tr><td>18</td><td>55</td><td>60</td><td>Blue Clay</td><td>Yes</td></tr><tr><td>6</td><td>60</td><td>93</td><td>Blue Clay</td><td>Yes</td></tr><tr><td>6</td><td>93</td><td>94</td><td>White Sand</td><td>Yes</td></tr><tr><td>6</td><td>94</td><td>103</td><td>Blue Clay</td><td>Yes</td></tr><tr><td>6</td><td>103</td><td>105</td><td>White Sand</td><td>Yes</td></tr></tbody></table> |                | Core Diam.   | Depth From | To   | Material | Water Yes/No | 14       | 0      | 7       | Brown Clay   | Yes          | 14                                                                                                                                                                                                                                                                                                                                                                              | 7          | 26           | Black Boulders | Yes        | 14         | 26           | 43           | White Sand | Yes        | 14 | 43 | 55 | Blue Clay | Yes | 18 | 55 | 60 | Blue Clay | Yes | 6 | 60 | 93 | Blue Clay | Yes | 6 | 93 | 94 | White Sand | Yes | 6 | 94 | 103 | Blue Clay | Yes | 6 | 103 | 105 | White Sand | Yes |
| Core Diam.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Depth From   | To                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Material       | Water Yes/No |            |      |          |              |          |        |         |              |              |                                                                                                                                                                                                                                                                                                                                                                                 |            |              |                |            |            |              |              |            |            |    |    |    |           |     |    |    |    |           |     |   |    |    |           |     |   |    |    |            |     |   |    |     |           |     |   |     |     |            |     |
| 14                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0            | 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Brown Clay     | Yes          |            |      |          |              |          |        |         |              |              |                                                                                                                                                                                                                                                                                                                                                                                 |            |              |                |            |            |              |              |            |            |    |    |    |           |     |    |    |    |           |     |   |    |    |           |     |   |    |    |            |     |   |    |     |           |     |   |     |     |            |     |
| 14                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 7            | 26                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Black Boulders | Yes          |            |      |          |              |          |        |         |              |              |                                                                                                                                                                                                                                                                                                                                                                                 |            |              |                |            |            |              |              |            |            |    |    |    |           |     |    |    |    |           |     |   |    |    |           |     |   |    |    |            |     |   |    |     |           |     |   |     |     |            |     |
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| 18                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 55           | 60                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Blue Clay      | Yes          |            |      |          |              |          |        |         |              |              |                                                                                                                                                                                                                                                                                                                                                                                 |            |              |                |            |            |              |              |            |            |    |    |    |           |     |    |    |    |           |     |   |    |    |           |     |   |    |    |            |     |   |    |     |           |     |   |     |     |            |     |
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| 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 93           | 94                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | White Sand     | Yes          |            |      |          |              |          |        |         |              |              |                                                                                                                                                                                                                                                                                                                                                                                 |            |              |                |            |            |              |              |            |            |    |    |    |           |     |    |    |    |           |     |   |    |    |           |     |   |    |    |            |     |   |    |     |           |     |   |     |     |            |     |
| 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 94           | 103                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Blue Clay      | Yes          |            |      |          |              |          |        |         |              |              |                                                                                                                                                                                                                                                                                                                                                                                 |            |              |                |            |            |              |              |            |            |    |    |    |           |     |    |    |    |           |     |   |    |    |           |     |   |    |    |            |     |   |    |     |           |     |   |     |     |            |     |
| 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 103          | 105                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | White Sand     | Yes          |            |      |          |              |          |        |         |              |              |                                                                                                                                                                                                                                                                                                                                                                                 |            |              |                |            |            |              |              |            |            |    |    |    |           |     |    |    |    |           |     |   |    |    |           |     |   |    |    |            |     |   |    |     |           |     |   |     |     |            |     |
| <b>4. METHOD DRILLED</b><br><input checked="" type="checkbox"/> Rotary <input checked="" type="checkbox"/> Air <input type="checkbox"/> Hydraulic <input type="checkbox"/> Reverse rotary<br><input type="checkbox"/> Cable <input type="checkbox"/> Dug <input type="checkbox"/> Other _____                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |              | <b>RECEIVED</b><br>AUG 06 1992<br>Department of Water Resources<br>Regional Office<br><b>RECEIVED</b><br>AUG 05 1992<br>Department of Water Resources                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                |              |            |      |          |              |          |        |         |              |              |                                                                                                                                                                                                                                                                                                                                                                                 |            |              |                |            |            |              |              |            |            |    |    |    |           |     |    |    |    |           |     |   |    |    |           |     |   |    |    |            |     |   |    |     |           |     |   |     |     |            |     |
| <b>5. WELL CONSTRUCTION</b><br>Casing schedule: <input checked="" type="checkbox"/> Steel <input type="checkbox"/> Concrete <input type="checkbox"/> Other _____ <table border="1"><thead><tr><th>Thickness</th><th>Diameter</th><th>From</th><th>To</th></tr></thead><tbody><tr><td>250 inches</td><td>8 inches</td><td>2 feet</td><td>60 feet</td></tr><tr><td>_____ inches</td><td>_____ inches</td><td>_____ feet</td><td>_____ feet</td></tr><tr><td>_____ inches</td><td>_____ inches</td><td>_____ feet</td><td>_____ feet</td></tr><tr><td>_____ inches</td><td>_____ inches</td><td>_____ feet</td><td>_____ feet</td></tr></tbody></table> Was casing drive shoe used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No<br>Was a packer or seal used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No<br>Perforated? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No<br>How perforated? <input type="checkbox"/> Factory <input type="checkbox"/> Knife <input type="checkbox"/> Torch <input type="checkbox"/> Gun<br>Size of perforation _____ inches by _____ inches<br>Number _____ perforations _____ feet _____ feet<br>_____ perforations _____ feet _____ feet<br>Well screen installed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No<br>Manufacturer's name _____<br>Type _____ Model No. _____<br>Diameter _____ Slot size _____ Set from _____ feet to _____ feet<br>Diameter _____ Slot size _____ Set from _____ feet to _____ feet<br>Gravel packed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Size of gravel _____<br>Placed from _____ feet to _____ feet<br>Surface seal depth <u>60</u> Material used in seal: <input type="checkbox"/> Cement grout<br><input checked="" type="checkbox"/> Bentonite <input type="checkbox"/> Puddling clay <input type="checkbox"/> _____<br>Sealing procedure used: <input type="checkbox"/> Slurry pit <input checked="" type="checkbox"/> Temp. surface casing<br><input type="checkbox"/> _____ <input checked="" type="checkbox"/> Overbore to seal depth<br>Method of joining casing: <input type="checkbox"/> Threaded <input checked="" type="checkbox"/> Welded <input type="checkbox"/> Solvent<br><input type="checkbox"/> _____ <input type="checkbox"/> Cemented between struts<br>Describe access port _____ |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                | Thickness    | Diameter   | From | To       | 250 inches   | 8 inches | 2 feet | 60 feet | _____ inches | _____ inches | _____ feet                                                                                                                                                                                                                                                                                                                                                                      | _____ feet | _____ inches | _____ inches   | _____ feet | _____ feet | _____ inches | _____ inches | _____ feet | _____ feet |    |    |    |           |     |    |    |    |           |     |   |    |    |           |     |   |    |    |            |     |   |    |     |           |     |   |     |     |            |     |
| Thickness                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Diameter     | From                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | To             |              |            |      |          |              |          |        |         |              |              |                                                                                                                                                                                                                                                                                                                                                                                 |            |              |                |            |            |              |              |            |            |    |    |    |           |     |    |    |    |           |     |   |    |    |           |     |   |    |    |            |     |   |    |     |           |     |   |     |     |            |     |
| 250 inches                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 8 inches     | 2 feet                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 60 feet        |              |            |      |          |              |          |        |         |              |              |                                                                                                                                                                                                                                                                                                                                                                                 |            |              |                |            |            |              |              |            |            |    |    |    |           |     |    |    |    |           |     |   |    |    |           |     |   |    |    |            |     |   |    |     |           |     |   |     |     |            |     |
| _____ inches                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | _____ inches | _____ feet                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | _____ feet     |              |            |      |          |              |          |        |         |              |              |                                                                                                                                                                                                                                                                                                                                                                                 |            |              |                |            |            |              |              |            |            |    |    |    |           |     |    |    |    |           |     |   |    |    |           |     |   |    |    |            |     |   |    |     |           |     |   |     |     |            |     |
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| <b>6. LOCATION OF WELL</b><br>Sketch map location must agree with written location.<br><table border="1"><tr><td>N</td><td></td><td></td></tr><tr><td>W</td><td></td><td>E</td></tr><tr><td></td><td></td><td></td></tr><tr><td>S</td><td></td><td></td></tr></table> Subdivision Name _____<br>Lot No. _____ Block No. _____<br>County _____ Gem _____<br>SE 1/4 Sec. 8 T. 7 S. R. 1 W. 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |              | N                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                |              | W          |      | E        |              |          |        | S       |              |              | <b>11. DRILLER'S CERTIFICATION</b><br>I/We certify that all minimum well construction standards were<br>complied with at the time the rig was removed.<br>Dallas Drilling and<br>Firm Name <u>Pump Co. Inc.</u> Firm No. <u>445</u><br>Address <u>505 S. 18th St</u> Date <u>8-4-92</u><br>Signed by (Firm Official) <u>[Signature]</u><br>and <u>[Signature]</u><br>(Operator) |            |              |                |            |            |              |              |            |            |    |    |    |           |     |    |    |    |           |     |   |    |    |           |     |   |    |    |            |     |   |    |     |           |     |   |     |     |            |     |
| N                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                |              |            |      |          |              |          |        |         |              |              |                                                                                                                                                                                                                                                                                                                                                                                 |            |              |                |            |            |              |              |            |            |    |    |    |           |     |    |    |    |           |     |   |    |    |           |     |   |    |    |            |     |   |    |     |           |     |   |     |     |            |     |
| W                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |              | E                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                |              |            |      |          |              |          |        |         |              |              |                                                                                                                                                                                                                                                                                                                                                                                 |            |              |                |            |            |              |              |            |            |    |    |    |           |     |    |    |    |           |     |   |    |    |           |     |   |    |    |            |     |   |    |     |           |     |   |     |     |            |     |
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| S                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                |              |            |      |          |              |          |        |         |              |              |                                                                                                                                                                                                                                                                                                                                                                                 |            |              |                |            |            |              |              |            |            |    |    |    |           |     |    |    |    |           |     |   |    |    |           |     |   |    |    |            |     |   |    |     |           |     |   |     |     |            |     |

USE ADDITIONAL SHEETS IF NECESSARY - FORWARD THE WHITE COPY TO THE DEPARTMENT

RECEIVED  
1/95  
MAY 13 1996

STATE OF IDAHO  
DEPARTMENT OF WATER RESOURCES  
Department of Water Resources APPROPRIATION APPLICATION ANALYSIS SHEET

Explanation of  
Filing - See 3/29  
App. "Comments"  
- updated 11/8/96 -

INITIAL REVIEW BY: JL DATE: 10/5/95 APPLICATION: 65-13643

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: increased 3/29/96  
Quantity: (flow and/or volume)  
Period of use: Extended season requested & heat added Gov't. Lots: 20 P/D 1 P/U 1  
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: aver increased - 10 ac in 60 ac. PPA  
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:

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: change to [P] if advertisement  
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

HEAT VALUE RE I.C. 42-213(1) See App. "Comments"  
DATE REQUESTED: 10/5/95  
Additional information on reverse side:

RECEIVED  
DEC 03 1996  
Department of Water Resources

11/8/96 REVISION\*

## PROCESSING

APPLICATION NO.

65-13643

YES NO

☒ ☒

In form for advertising:

Statewide advertising: ( &gt; 10 cfs &amp;/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 5-6-96

Protest dates, resolution of protest recorded on application:

Recommendations attached: Approve, Deny, Comment SL

Measuring device required:

Measuring port required:

Water delivered by water master? District #

Special conditions of approval or cover letter:

SEE Appl. Remarks: 11/8/96 Appl. Comments - Appears appropriate now with limited season. Include 004, 46, 468, unusual in season OK, use LGAT valve 1st then reg. use follows, 10 ac. within 20 ac. "prou".

See below for additional information

Recommended Date or Priority 7/1/1995 →

Recommended by: Dm

Date 5/8/1996

DELAYED TO 3/29/96

11/8/96

## STATE OFFICE REVIEW

See below for additional information. By Date

## ADDITIONAL INFORMATION

Overlap

- Nearby hot well for heating home + pool - 65-13628 (same owner).

- Also, 1 Square Ck &amp; 3 Roystone Hot Springs (1 in name of applicant) for irrig in Q2.

Use is for existing (pre-1987 re drill. permits) low temp geothermal well.

SEE MAP → DO NOT FORWARD TO S.O. UNTIL APPL COMPLETES P/W OWNERSHIP info.

INTER-DEPARTMENT MEMO--1

FROM Steve Lester  
 TO Shelley Keen  
 SUBJECT Appl. 65-13643

RECEIVED  
 DEC 03 1996

DATE 11/29/96

Department of Water Resources

Re your 5/15/96 memo:

- Land list reduced to 2 tracts with access explained.
- Heat + irrig. use limited to Sept 1 - June 30 so issue heating in hottest months now N/A.

Now appears approvable - see Appl. Comments for more details.  
 Please call if anything is not clearly explained etc.

Thanks, 

SIGNATURE

CONVERSATION MEMORANDUM

DATE 9/19/96  
FILE 65-13643

NAME OF PARTY MRS. Johns

EMPLOYEE STEVE LESTER

RE: REQUEST - more time

HAVING problems with current proposal & working  
ON some revisions. Asks for more time to revise  
Application.

OK - will place ON HOLD with 2/1/97 call-up.

(Geothermal Investment Corp.)

NOT RECORDED  
FEB 27 1997



State of Idaho

DEPARTMENT OF WATER RESOURCES

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

FAX (208) 334-2348

May 20, 1996

PHILIP E. BATT  
GOVERNOR

KARL J. DREHER  
DIRECTOR

MR LOUIS JOHNS  
PRESIDENT GEOTHERMAL INVESTMENT CORP  
7880 N HWY 52  
SWEET ID 83670

**RE: APPLICATION FOR PERMIT NO. 65-13643**

Dear Mr. Johns:

The central office of this department has indicated that the above-referenced application cannot be resolved until additional information is provided. Two areas of concern have been identified. Please respond to these concerns that are identified in this letter. A written response is required at this point in the application process.

1. Please identify the remaining land owners for the 1/4-1/4 tracts highlighted in yellow on the attached map. Also, please explain the basis that allows your company to operate on all of the 1/4-1/4 tracts not owned by your company (all but one tract).
2. Please provide documentation to support your statements that use of geothermal well water to irrigate plants during the warmest months of the year is a beneficial use of this water. Perhaps the county agricultural extension agent or an agricultural research unit associated with a university can help you in this regard by providing technical information regarding this subject.

Your written reply within 30 days would be appreciated.

Sincerely,

Steve Lester  
Water Rights Supervisor

Enclosure

## MEMORANDUM

RECEIVED

MAY 17 1996

WATER RESOURCES  
WESTERN REGION

DATE: May 15, 1996

TO: Steve Lester 

FROM: Shelley W. Keen 

RE: Application for Permit 65-13643

---

As you requested, I am returning Application for Permit 65-13643 to you. You wanted to pursue the following two items.

- Access to land owned by others.
- Documentation to support the applicant's assertion that irrigation with low temperature geothermal water during the summer months meets the criteria set forth in Idaho Code §42-233 for appropriation.

I think we might feel more comfortable about approving the geothermal use during the summer if the applicants were able to provide articles from technical journals or letters from agricultural/horticultural experts extolling the benefits of irrigating with hot water. Maybe they could contact their county agricultural extension agent or a U of I ag research center.

RECEIVED

APR 29 1996

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 two

consecutive weekly issues thereof,  
beginning with the issue of  
April 17, 1996,  
and ending with the issue of  
April 24, 1996

Marianne Chaney  
Subscribed and sworn to me this

24th day of  
April 1996  
Gordon Fessenden  
Notary Public

Residing at Emmett, Idaho

NOTICE OF APPLICATION FOR WATER RIGHT

The following application(s) have been filed to appropriate the public waters of  
the State of Idaho: ✓  
65-13643  
GEOTHERMAL INVESTMENT CORP  
7880 N HWY 52  
SWEET, ID 83670

Source: GROUNDWATER

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

|      |                  |   |            |
|------|------------------|---|------------|
| Use. | IRRIGATION       | { | 0.200 CFS) |
|      | HEATING          |   | 0.200 CFS) |
|      | Total Diversion: |   | 0.200 CFS) |

Date Filed: 3/29/1996

In: GEM County  
T07N R01E S08 NENE SWNE SENE NWSE  
SWSE SESE

60.0 ACRES TOTAL

Use is for all year heating/irrigation from existing geothermal well limited to 10  
acres in 60 acre site each year.

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 MAY 6, 1996. The protestant must also send a copy of the protest to  
the applicant.

Pub 4 - 17, 24, 1996

Legal Notice No. 2510  
Published in the Messenger Index

My Commission Expires \_\_\_\_\_

65-13643

GEOHERMAL INVESTMENT CORP  
7880 N HWY 52  
SWEET, ID 83670

Source: GROUNDWATER

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

|                  |   |            |
|------------------|---|------------|
| Use: IRRIGATION  | ( | 0.200 CFS) |
| HEATING          | ( | 0.200 CFS) |
| Total Diversion: | ( | 0.200 CFS) |

Date Filed: 3/29/1996

|                |      |      |      |      |
|----------------|------|------|------|------|
| In: GEM County |      |      |      |      |
| T07N R01E S08  | NENE | SWNE | SENE | NWSE |
|                | SWSE | SESE |      |      |

60.0 ACRES TOTAL

Use is for all year heating/irrigation from existing geothermal well limited to 10 acres in 60 acre site each year.

From: DWR80::SLESTER 29-MAR-1996 14:54:57.74  
To: DWR03::SCURTIS  
CC: SLESTER.  
Subj: APPL. 65-13643

SHARLA - This unusual filing is for 10 acres in 60 acre PPOU for hot well to heat soil & provide irrigation water all year. Existing system for number of years - not sure how many but since mid-late 1980's? Have used on about 3 acres & now want to expand.

Will advertise with this non-database Remark:

→ "Use is for all year heating/irrigation from existing geothermal well limited to 10 acres in 60 acre site each year."

This is shorter version of database remarks that convey @ same information. This heads-up to you to let you know that appl. has had T flag since mid-1995 and now has P flag for inclusion on weekly listing. Needs 2 remarks in d'base to show what's up with filing. Used standard remark language as much as could in d'entry.

Let me know if any problems with this one.

Thanks,

Steve

Advertising Remark

Not standard ones in appl.,  
will need to type this  
onto adv. printout.

-82

(WATER RIGHT NUMBERS THAT BEGIN WITH AN '\*\*' ARE ADJUDICATION CLAIMS)  
(QUARTER-QUARTERS WITH A '?' HAVE DIFFERENT ACREAGE AMOUNTS--CHECK THE DATA BASE RECORDS)

| WR-NUMBER | SOURCE                    | NE |    |    |    | NW |    |    |    | SW |    |    |    | SE |    |    |    | SUM |    |    |
|-----------|---------------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|----|----|
|           |                           | NE |    | NW |    | SW |    | SE |    | NE |    | NW |    | SW |    | SE |    |     |    |    |
|           |                           | Lt | Ac | Lt | Ac | Lt | Ac | Lt | Ac | Lt | Ac | Lt | Ac | Lt | Ac | Lt | Ac |     |    |    |
| 6513643   | T07N R01E S 8 GROUNDWATER |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |
|           | :                         | 10 |    | 10 |    | 10 | :  |    |    | :  |    |    |    | :  |    | 10 | 10 | 10  | :  | 60 |
| 6500155   | SQUAW CREE :              |    |    |    |    | :  |    |    |    | :  |    |    |    | :  |    |    |    | 25  | :  | 25 |
| A6500155  | SQUAW CREE :              |    |    |    |    | :  |    |    |    | :  |    |    |    | :  |    |    |    | 25  | :  | 25 |
| 6500156   | ROYSTONE H :              |    |    |    |    | :  |    |    |    | :  |    |    |    | :  |    |    |    | 01  | :  | 1  |
| A6500156  | ROYSTONE H :              |    |    |    |    | :  |    |    |    | :  |    |    |    | :  |    |    |    | 01  | :  | 1  |
| 6512740   | SQUAW CREE :              |    |    |    |    | :  |    |    |    | :  |    |    |    | :  |    | 13 | 12 | :   | 25 |    |

*Other acre than  
proposed for  
hot well use  
per Applicants  
3/19/96 office  
visit*

*POU Comp.  
-FL*



State Idaho

DEPARTMENT OF WATER RESOURCES

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

PHILIP E. BAFF  
GOVERNOR

KARL J. DREHER  
DIRECTOR

December 18, 1995

GEOHERMAL INVESTMENT CORP  
7880 N HWY 52  
SWEET ID 83670

Re: Application for Permit of Water Right No. 65-13643

Dear Applicant:

*NOTICE OF PENDING ORDER REJECTING APPLICATION FOR PERMIT*

On July 11, 1995, Geothermal Investment Corp. filed with the Department of Water Resources an application for permit to provide water for irrigation use located within Sec. 08, T07N, R01E, B.M., in Gem County.

The department corresponded with you on October 5, 1995, requesting additional information regarding the heat value requirement. This information is necessary to continue processing this application. We have received no communication from you.

The purpose of this letter is to request that you withdraw your application for permit or explain why the Department should not reject your application. Enclosed is a withdrawal form that should be signed and returned to me, unless you have an explanation that would prevent the Department from rejecting your application.

If you fail to respond to this inquiry within thirty (30) days from the date of this letter, the Department will act to reject your application. The application will be rejected on the grounds that it is speculative in that you have not provided the necessary information needed to analyze the application.

Sincerely,

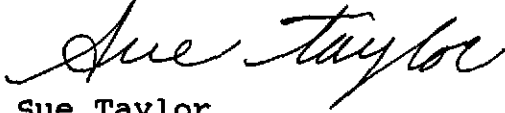
DAVID R. TUTHILL, JR., P.E.  
Manager, Western Regional Office

DRT:st

Enclosure

I hereby certify that on this 19<sup>th</sup> day of December, 1995,  
I sent the original copy of this letter, postage prepaid, to the  
person and address listed above.

Sincerely,

A handwritten signature in cursive script that reads "Sue Taylor". The signature is written in dark ink and is positioned above the printed name and title.

Sue Taylor  
Secretary



State Idaho

DEPARTMENT OF WATER RESOURCES

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

FAX (208) 334-2348

October 5, 1995

PHILIP E. BATT  
GOVERNOR

KARL J. DREHER  
DIRECTOR

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

**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

## CONVERSATION MEMORANDUM

DATE

2/21/95

FILE

NAME OF PARTY Louis Johns, Pres. 584-3371EMPLOYEE Steve LattaRE: 2 Apps. for Permit2 Wells, not integratedLongation System  
Description

65-13628 1 → heat home + pool ok to proceed;

65-13643 1 → living all year (?) not ok to proceed, yet;

not greenhouse(s), 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 1/3 of year) so low  
address 42-233?

Send info c heat value req'd. &  
w/inv to see how want to proceed

MICROFILMED

FEB 27 1997