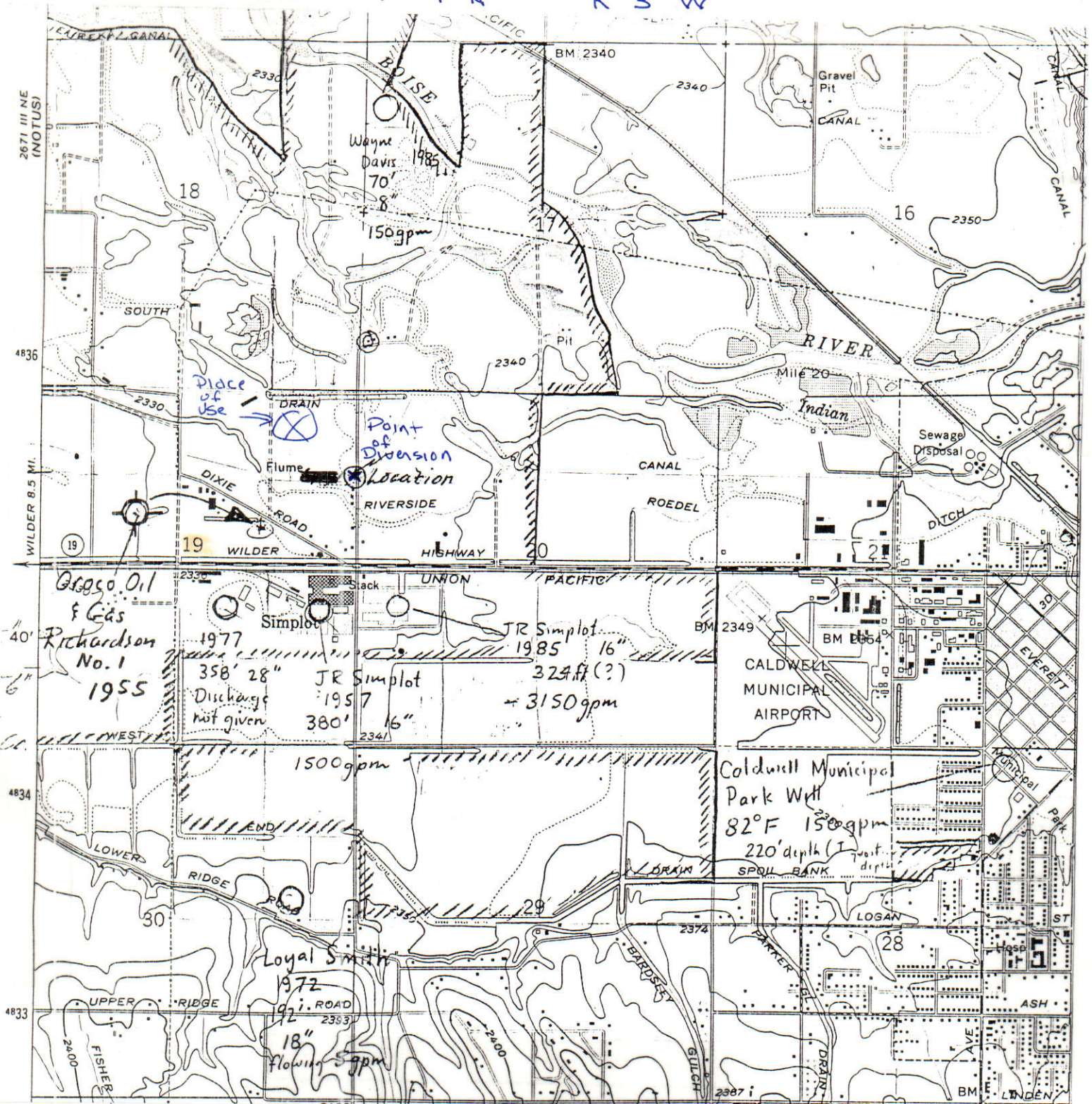


13. Map of proposed project: show clearly the proposed point of diversion, place of use, section number, township and range number. **T 4 N R 3 W**



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.

**RECORDED**

AUG 05 1988

J. R. SIMPLOT COMPANY

*James R. Simplot*  
(Applicant)

Secretary

RECEIVED

DEC 23 1987

Department of Water Resources  
Western Regional Office

AFFIDAVIT OF PUBLICATION

STATE OF IDAHO )  
 ) ss.  
County of Canyon )

Debra Martin del Campo

of Nampa, Canyon County, Idaho, being first duly sworn, deposes and says:

1. That I am a citizen of the United States of America, and at all times hereinafter mentioned was over the age of eighteen years, and not a party to the above entitled action.

2. That I am the Principal Clerk of the Idaho Press-Tribune, a daily, (except Saturday) newspaper published in the City of Nampa and Caldwell, in the County of Canyon, State of Idaho; that the said newspaper is in general circulation in the said County of Canyon, and in the vicinity of Nampa and Caldwell, and has been uninterruptedly published in said County during a period of seventy-eight consecutive weeks prior to the first publication of the notice, a copy of which is hereto attached.

3. That the notice, of which the annexed is a printed copy, was published in said newspaper

Two times

in the regular and entire issue of said paper, and was printed in the newspaper proper, and not in a supplement.

4. That said notice was published the following dates:

December 16, 23, 1987

Debra Martin del Campo

Subscribed and sworn to before me this

23rd

day of

December

19 87

Janna Lusk  
Notary Public, Residing at Nampa, Idaho

MY COMMISSION EXPIRES  
JULY 12th, 1991

NOTICE OF AMENDED  
APPLICATION FOR PERMIT

Notice is hereby given that Applicant No. 63-10553 in the name of J.R. Simplot Co. was filed on 11/2/87 for the diversion of 5.0 cfs from a groundwater source with a point of diversion within the SENENE, S. 19, T. 4N., R. 3W., B.M. to be used for Industrial Heating Purposes from 1-1 to 12-31 within portions of the NENE, Sec. 19, Twp. 4N., Rge. 3W., B.M. The applicant now proposes to amend the application by changing the nature of use to Industrial Heating and Fish Propagation for a total of 5.0 cfs.

Any protest against the approval of the proposed amendment must be filed with the Department of Water Resources, 2735 Airport Way, Boise, ID 83705 on or before January 4, 1988.

R. KEITH HIGGINSON  
Director

December 16, 23, 1987

MICROFILMED

AUG 05 1988

RECEIVED  
DEC 9 1987

Department of Water Resources  
Western Regional Office

AFFIDAVIT OF PUBLICATION

STATE OF IDAHO )  
 ) ss.  
County of Canyon )

Debra Martin del Campo

of Nampa, Canyon County, Idaho, being first duly sworn, deposes and says:

1. That I am a citizen of the United States of America, and at all times hereinafter mentioned was over the age of eighteen years, and not a party to the above entitled action.

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3. That the notice, of which the annexed is a printed copy, was published in said newspaper

Two times

in the regular and entire issue of said paper, and was printed in the newspaper proper, and not in a supplement.

4. That said notice was published the following dates:

December 2, 9, 1987

Debra Martin del Campo  
Subscribed and sworn to before me this

9<sup>th</sup> day of December  
1987

Janet Lusk  
Notary Public, Residing at Nampa, Idaho

MY COMMISSION EXPIRES  
JULY 12th, 1991

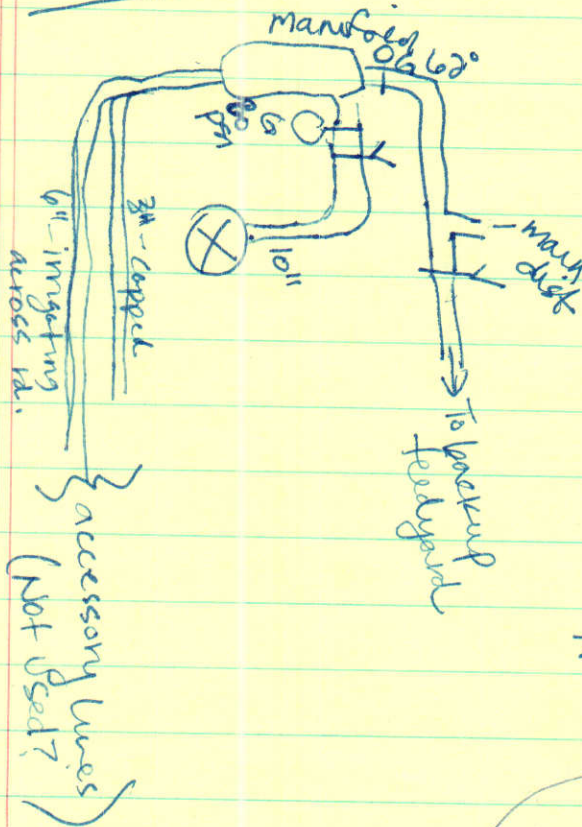
NOTICE OF APPLICATION  
FOR WATER RIGHT  
The following application has  
been filed to appropriate the public  
waters of the State of Idaho:  
63-10553 JSP  
J.R. SIMPLOT CO.  
c/o R.N. GRAVES  
P.O. Box 27, Boise, ID 83707  
Source: GROUNDWATER  
Diversion Pt: SENENE Sec 19 T  
04N R 03W  
Use: INDUSTRIAL (5.0 CFS)  
Date Filed: November 2, 1987  
In: NENE Sec 19 T 04N R 03W  
The permit will be subject to all  
prior water rights. Protests must  
be filed with the Director, Dept. of  
Water Resources, Western Region,  
2735 Airport Way, Boise, Idaho  
83705 on or before December 21,  
1987.  
R. KEITH HIGGINSON  
Director  
December 2, 9, 1987

MICROFILMED

AUG 05 1988

5/2/96  
pg 2

COLD WELL



(NEED XFER)  
IRR UNDER 63-10034?  
extended Season  
reduced rates.

25,500 emitters

Tim Hathaway - greenhouse mgr  
ca. 0.1 gpm, avg 20 sec  
10-30 times daily  
depending on conditions

4 rows at a time

~320 emitters per row  
Season. 9-11 mos, plant  
about end of December

3 ~~12~~ FT yr-round  
12 Seasonal (9 mos)

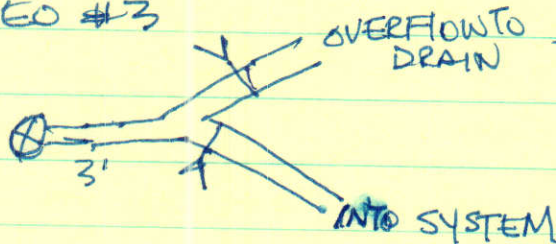
OFC: 12 FT

~~168,000 ft<sup>3</sup>~~  
2 @  
2 @  
~~241,920 ft<sup>3</sup>~~

Greenhouses:  
21,000 ft<sup>2</sup> 350 x 30 Quonset  
504 x 30 " " floor heat  
30,240

~~108,900 ft<sup>2</sup>~~ 2 x avg 2 ft high =  
↑ ~~980,000 ft<sup>3</sup>~~  
Main house 108,900 ft<sup>2</sup>  
2 1/2 acre peaked roof  
house, plastic panel  
overflow goes to floor  
and in Quonsets

GEO #3



well flowing, not controlled  
not used, ~45 gpm

Pete - Maint



Closed line  
OPEN 20%  
closed lines

75 HP Siemens  
3ph  
ID 56183-9

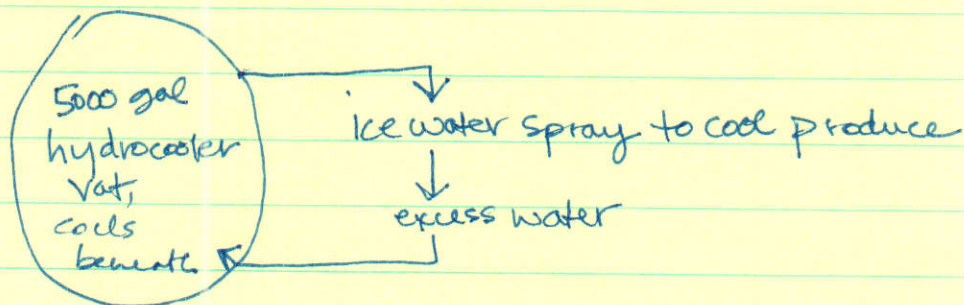
5/2/96

pg 3

Geo #1 850-920 gpm Pumped flows } meas w/  
Geo #3 375 gpm " " } manometer

### Processing

2 1/2 mos process sweet corn, refrigerated water  
cooling July - Sept 25 FT (long silt)



refill 500-1000 gal 2-3 times a day (10 weeks)

+ mix clean water

assume seven day  
weeks

Evaporative cooling - 24 coolers (east end of houses)

each w/ recirc pump/fan est 2 gpm

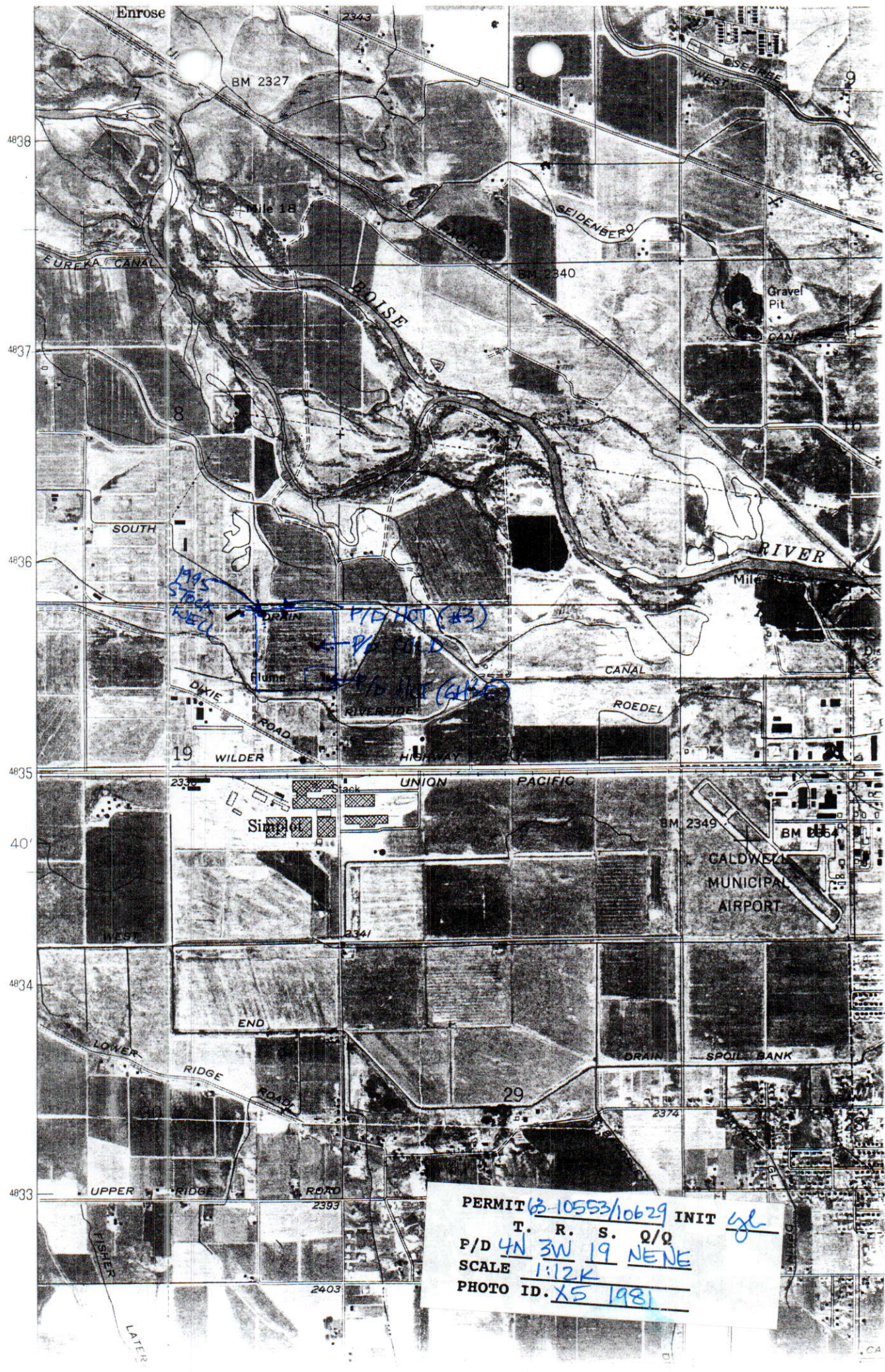
avg supply thru <sup>(each)</sup> 1/2" copper tube -

avg run time thru cooling season 12 <sup>hrs</sup>/day

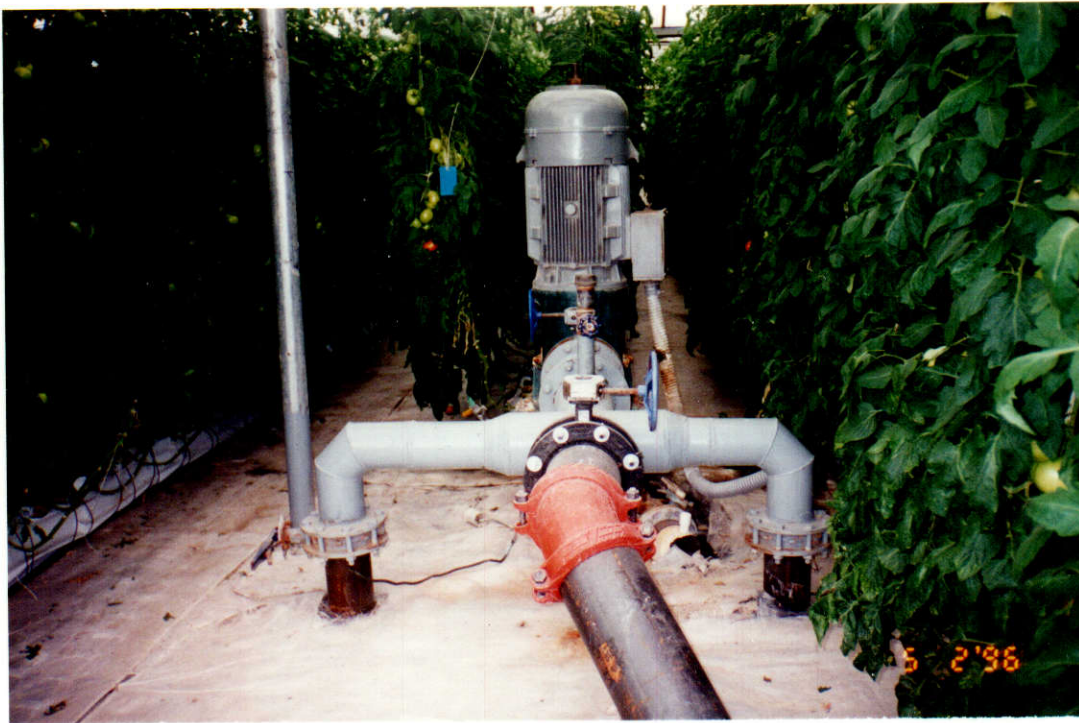
use - May 1 → Sept 30 ~ 150 days

under 63-10034 ?

25-30K lb/wk  
to peak



PERMIT 63-10553/10629 INIT gk  
T. R. S. Q/Q  
P/D 4N 3W 19 NENE  
SCALE 1:12K  
PHOTO ID. X5 1981



Pod #1

Greenhouse Well  
Geothermal



Pod #2

Ditch Well  
Geothermal

63-10553  
gjh



Primary  
House -  
(Cooling system  
visible end  
of building -  
see 10629)



Lagoon/  
Discharge  
Cooling  
Pond

63-10553  
cjr

# PROPOSED WELL DESIGN SIMPLOT WELL NO. 3

APPROXIMATE  
DEPTH  
(FEET)

0

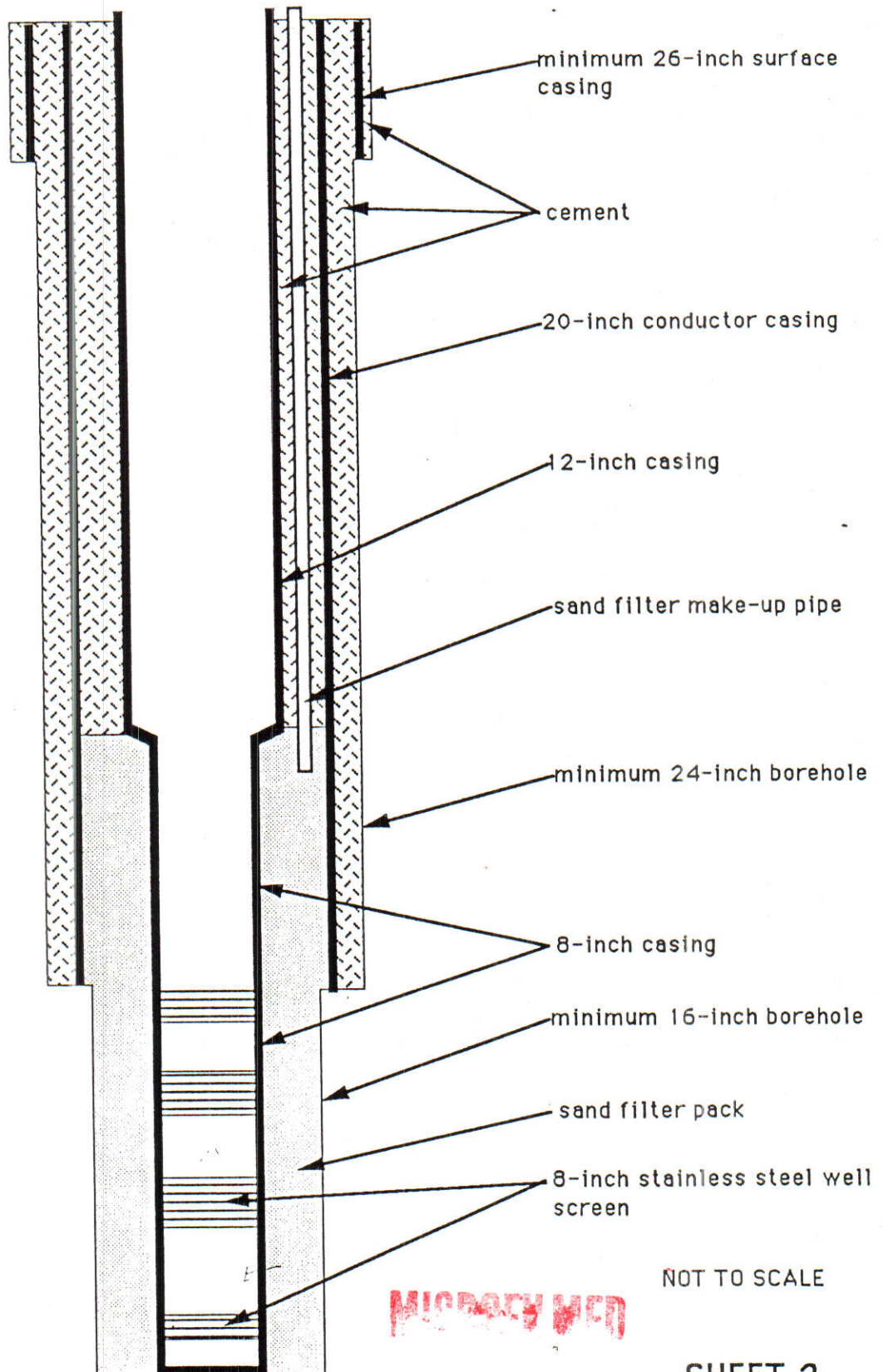
60

400

420

600

900

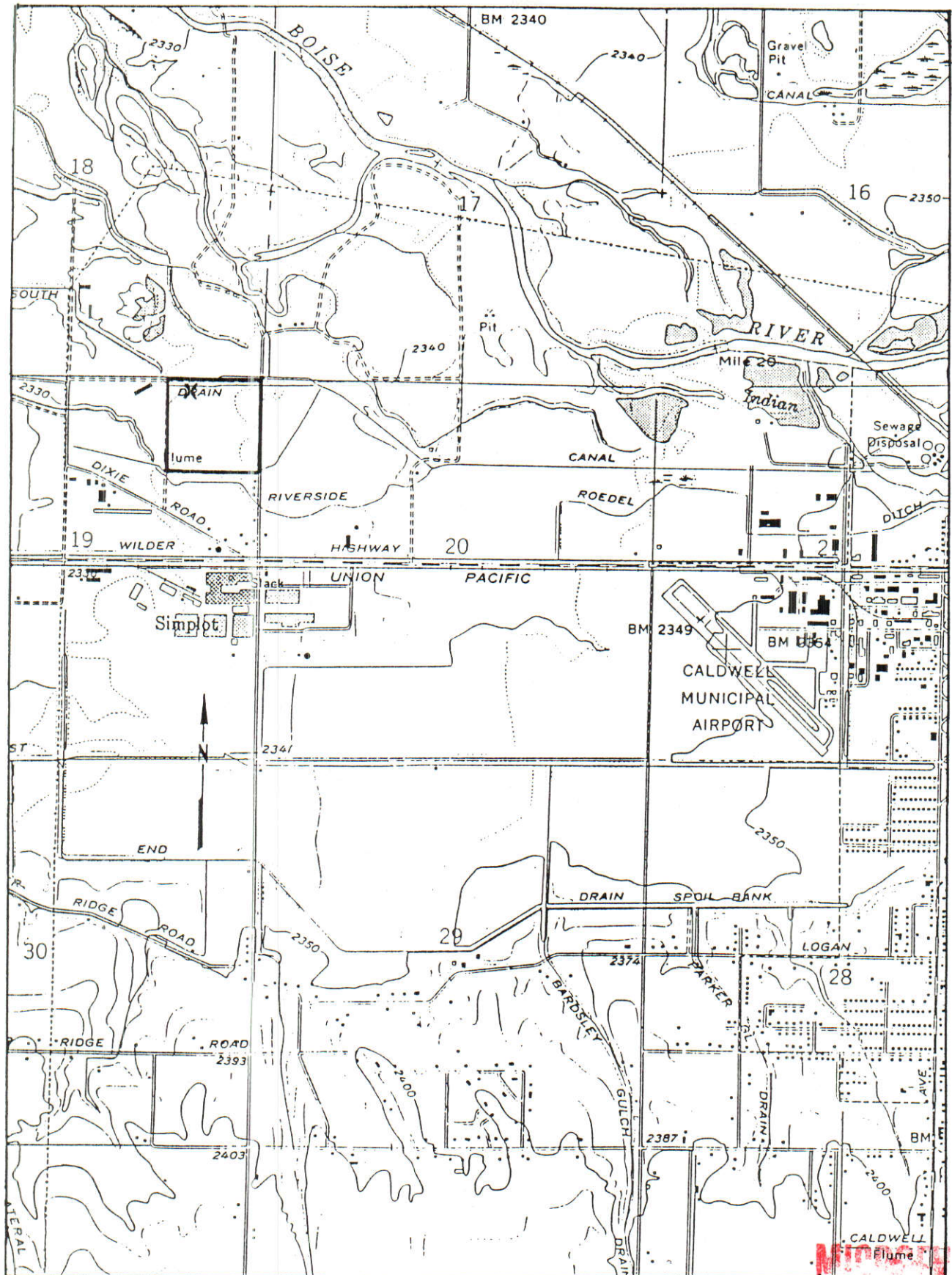


NOT TO SCALE

MICROSOFT

FEB 02 1993

SHEET 2



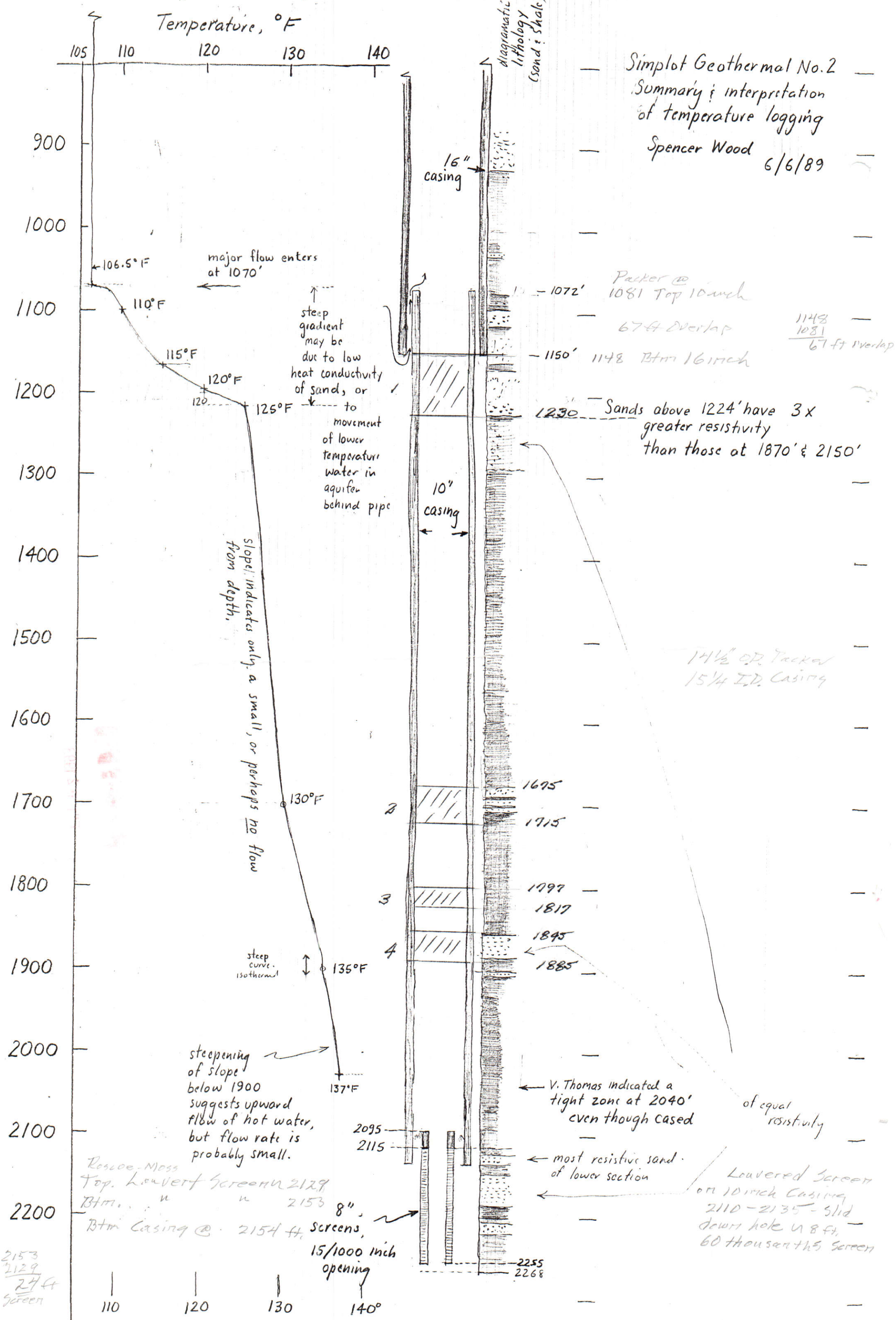
SITE LOCATION MAP

SHEET 1

FEB 02 1993

+ 105.5°F flow at surface, 200 gpm, water conductivity = 377 micromhos/cm @ 25°C

Temperature, °F



1070'



WATER RESERVOIR  
(I) 300' x 80' (720,000 gallons)

WATER RESERVOIR  
(II) 500' x 90' (1,340,000 gallons)

DOMESTIC  
SEWAGE POND  
50'

LAGOON  
(III) 300' x 150' (2,000,000 gallons)

LAGOON  
(IV) 300' x 150' (2,000,000 gallons)

PLANT - WATER  
TREATMENT 400' x 500'  
(3,280,000 gallons Raceways)

|              |               |
|--------------|---------------|
| COLD STORAGE | OFFICE        |
| FEED PROCESS | PROCESS BLDG. |

PROCESS WATER  
OXIDATION POND  
50'

LAGOON  
(II) 300' x 150' (2,000,000 gallons)

LAGOON  
(I) 300' x 150' (2,000,000 gallons)

1165'

PONDS  
230' x 70' (300,000 gallons)

PONDS  
230' x 70' (300,000 gallons)

HATCHERY 488' x 220'  
(1,860,000 gallons Ponds)

CLARIFICATION BLDG. 50' x 40'

(120,000 gallons Tanks)

GROW-OUT FACILITY 492' x 480'  
(600,000 gallons Raceways)

**MICROFILMED**

AUG 05 1988

G.W. WELL

1090'

IRRIGATION DITCH

(TOTAL SYSTEM VOLUME:  
16,520,000 gallons.  
= 50.7 AF DEX)

SIMPLOT AQUACULTURE  
- FACILITIES LAYOUT -  
SOT - 10/20/87  
3/8" = 50'

1200' ROAD

# J. E. SIMPLOT COMPANY CALDWELL GEOTHERMAL WATER WELL CASING DIAGRAM - GWW #2

Surface casing is grouted  
between 24" & drill hole

0  
60

Surface casing (24" 0.250 std. wall) 0-60 ft

Area between 24" & 22" casing  
is grouted from 0 to 500' 500

Casing (22" 0.250 std. wall, from 0-500)

Packer at 500' between 22" and 16" with  
20' overlap, 480-500'

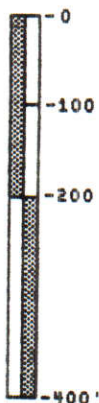
Casing (16" 0.375 std. wall, from 0-1100')

Area between 22" and 16"  
casing is grouted from  
1000' to 1100'

1100

Packer at 1100' between 16" and 12"  
with 20' overlap (1080 -1100')

## Vertical Scale



No Horizontal Scale

Casing 12" 0.375 std. wall, from 1100- 2000

**MICROFILMED**

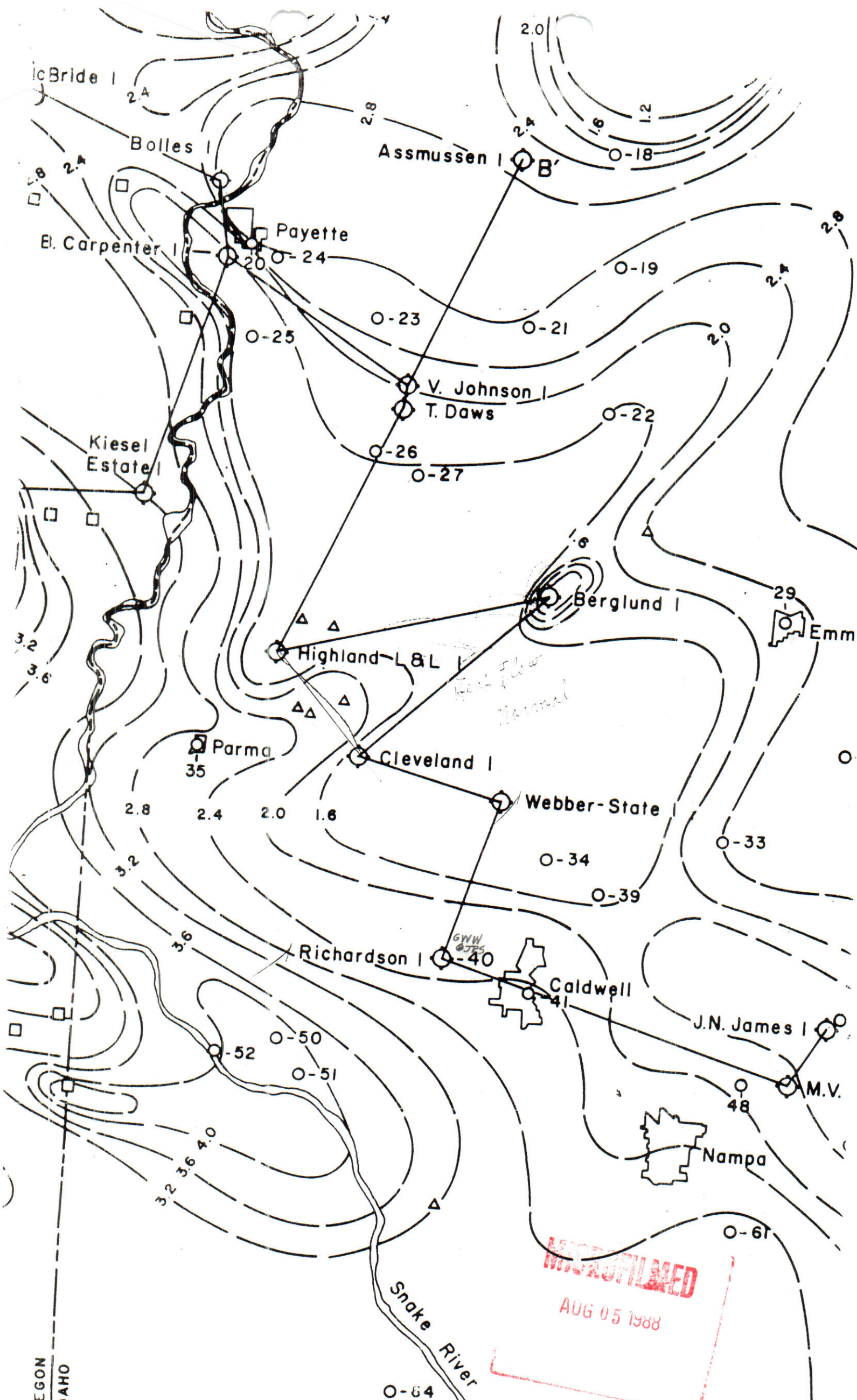
AUG 05 1988

Packer between screen and 12" with  
10 foot overlap

50' of 15 slot stainless screen  
(10.75" O.D. extra heavy duty)

2000

2050



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AUG 05 1988

EGON  
IDAHO

O-64

Oroco Oil & Gas.

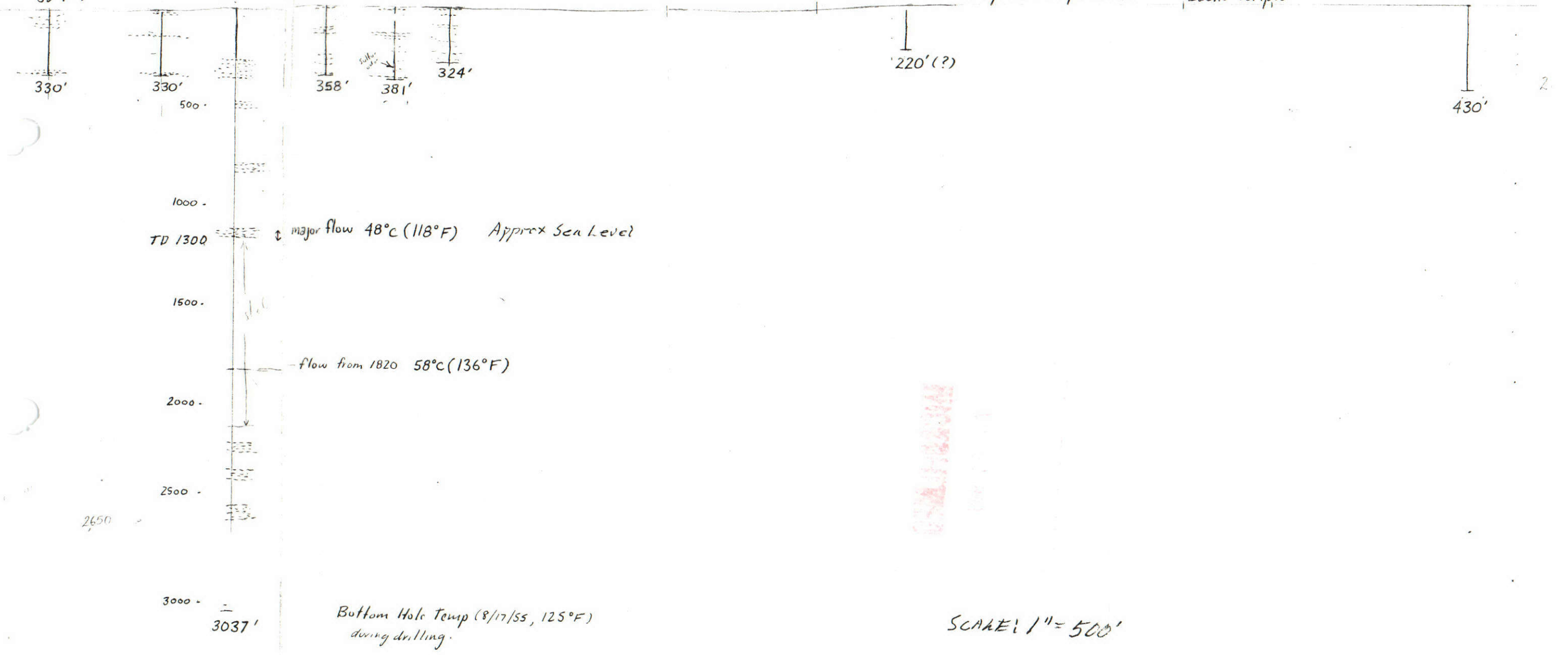
| Richardson Feed Lot |                 | Richardson No. 1 |           | I.R. Simplot, Co. Feedlot |                 |
|---------------------|-----------------|------------------|-----------|---------------------------|-----------------|
| 1966                | 1966            | No. 1            | 1977      | 1957                      | 1985            |
| 12" well            | 20" well        | 1955             | 28" well  | 16" well                  | 16" well        |
| Artesian            | Artesian        |                  | discharge | tested                    | tested 3150 gpm |
| flowing 200 gpm     | flowing 360 gpm |                  | not given | 1500 gpm                  |                 |

Caldwell Municipal Park Well  
150 gpm (flowing?) 82°F  
Check depth, I suspect it is deeper than reported 220'

Caldwell Municipal Airport

College of Idaho Campus

Caldwell City Well  
800 gpm (pumped?)  
68°F



Greenleaf Village  
Unincorporated.  
1967  
12" well, 120 gpm  
60°F  
(gas)

303'

Greenleaf Water District  
1971  
100 gpm

328'

Charles Sleight  
1979  
6" domestic well  
35 gpm

386'

George Wright 1967  
4" domestic well  
Artesian flowing  
18 gpm  
70°F

420'

Richardson Feed Lot  
1966  
12" well  
Artesian  
flowing 200 gpm  
69°F?

330'

Richardson  
1966  
20" well  
Artesian  
flowing  
360 gpm

330'

500'

Oraco Oil & Gas.

No. 1 1977  
28" well  
discharge  
not given

I.R. Simplot, Co. Feedlot  
1957  
16" well  
tested  
1500 gpm

358'

Sulfur  
water

381'

324'

1000 -  
TD 1300

major flow 48°C (118°F) Approx Sea Level

1500 -

2000 -

2500 -

2650

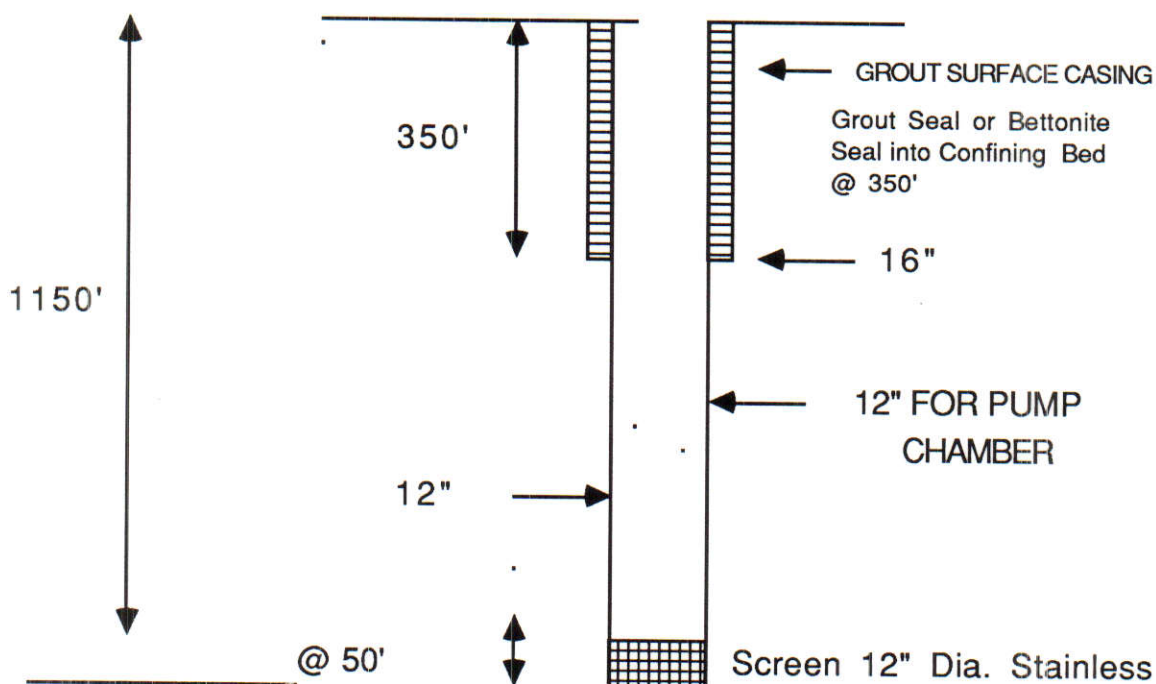
3000 -

3037'

Bottom Hole Temp (8/17/55, 125°F)  
during drilling.

Revised 10/28/87  
RVR

## CALDWELL GEOTHERMAL WATER WELL CASING DIAGRAM



@ = Approximate

### DRILLING PROCEDURE

#### Per Foot

1. Drill and Drive temporary 20 inch casing thru surface sand and gravel T.D. 60 ft.
2. Drill and Drive 16 inch casing from collar to 350 feet T.D.
3. Drill and Drive 12 inch casing from 350 feet to 1150 feet T.D.

#### Lump Sum

1. Grout between 16 inch and 12 inch casing @ 350 foot interval.
2. Packer between 16 inch and 12 inch casing.

#### Per Foot

1. Install 50 feet of 12 inch screen at 1100 to 1150 foot interval.

#### Pump Test

1. Install and remove test pump @ approximately 400 feet and run 24 hour pump test.

**MICROFILMED**

AUG 05 1988

RECEIVED

FEB 01 1996

STATE OF IDAHO  
DEPARTMENT OF WATER RESOURCES

Department of Water Resources

PROOF OF BENEFICIAL USE

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

1. Permit No. 63-10553 Telephone No. 208-336-2110

2. Name(s) of Permit Holder(s): J.R. Simplot Company

3. Mailing Address: Post Office Box 27, Boise, ID 83707

4. Source of Water: Groundwater If **GROUNDWATER** (well), Date Drilled: mo. / yr. See Attachment

a. Well Driller: See Attachment Drilling Permit Number: See Attachment

b. **OPTIONAL:**  
Pump Horsepower:                      Pressure (psi):                      Dynamic pumping level (ft):                     

5. Use(s) (as authorized by the water right permit):

Domestic (No. of households):                      Stockwater (No. and type of stock):                     

Irrigation (No. of acres):                      Other: Geothermal Heating

6. Total rate of diversion and/or volume for which proof is submitted: 5.0 cfs OR                      acre feet

7. Measuring Device Requirement: (refer to the approval conditions on your permit and respond accordingly)

(This question is not optional. Please check either yes or no. Proofs returned not checked accordingly, will be considered incomplete)

Measuring Device: Is a measuring device required? Yes            or No X

Has the measuring device been installed? Yes X or No           

Flow Measurement Port: Is a flow measurement port required? Yes X or No           

Has the measurement port been installed? Yes X or No           

8. Fee Enclosed: \$ 200.00 (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: Ron Parks Telephone Number: (208) 454-4263

Address: 20875 Wagner Road Caldwell, ID 83605

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.

J.R. Simplot Company

Signature of permit holder: By: Ronald N. Graves Date: January 31, 1996

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

Ronald N. Graves, Secretary

## **Attachment to Proof of Beneficial Use - IDWR Permit No. 63-10553**

There were two wells completed under IDWR Permit No. 63-10553. The following is a brief description for each well.

**"Geothermal Well #1"**: Drilled by Thomas Drilling, Inc., Rt #1 Afton, WY 83111. Drilling Permit Number: 63-87-Z-97. Work started in March, 1988. Work completed August, 1988. Attached is a copy of the Well Driller's Report for this well

**"Geothermal Well #3"**: Drilled by Materi Exploration, Box 500, Upton, WY 82730. Drilling Permit No. 63-90-Z-006. Work started on March 31, 1990. Work completed on August 1, 1990. Attached is a copy of the Well Driller's Report for this well.

FEB 23 1996

STATE OF IDAHO  
DEPARTMENT OF WATER RESOURCES

**REQUEST FOR EXTENSION OF TIME**

**TO PROVIDE ADDITIONAL TIME IN WHICH TO SUBMIT PROOF OF  
BENEFICIAL USE FOR A WATER RIGHT PERMIT**

The Idaho Department of Water Resources will consider this form as a request that the permit holder(s) be granted an additional period of time in which to complete development of water right under the provisions of Section 42-204, Idaho Code.

Permit No. 63-10553

Name(s) of Permit Holder: J. R. Simplot Company

Mailing Address: P. O. Box 27, Boise, ID 83707

Date Proof is Due February 1, 1993 Telephone No. (208) 336-2110

Describe what work has been completed toward the development of this water right:  
(This must be filled out! If no work has been completed, show "none".)

An extensive fish propagation facility was constructed including diverting works.

Costing \$                     

The permit holder(s) has been unable to complete the remainder of the work for the following reasons:

The facility was operated as a commercial fish propagation and marketing operation  
until it was temporarily idled. Alternative uses for the facility are currently  
being evaluated.

Permit holder(s) request an extension to February 1, 19 98

FEE: \$15.00

(Signature)\*

\*If other than permit holder, Power of Attorney must be supplied.

Ronald N. Graves

Secretary, J. R. Simplot Company

ACTION OF THE DEPARTMENT OF WATER RESOURCES

IT IS HEREBY ORDERED that the above request for extension of time be APPROVED  
and the time within which to submit proof of beneficial use is  
extended to February 1, 1996.

FEB 02 1993

Signed this 2<sup>nd</sup> day February, 19 93

T. Shu Saylor  
Chief, Water Allocation Bureau

RECEIVED

Form 20  
6/85

NOV 02 1987

STATE OF IDAHO

Ident. No. 63-10553

DEPARTMENT OF WATER RESOURCES

AMENDED  
Department of Water Resources

APPLICATION FOR PERMIT

AMENDED

To appropriate the public waters of the State of Idaho

1. Name of applicant J. R. SIMPLOT COMPANY Phone 208-336-2110  
Post office address P.O. Box 27, Boise, Idaho 83707 Attn: R. N. Graves
2. Source of water supply groundwater which is a tributary of \_\_\_\_\_
3. Location of point of diversion is SE  $\frac{1}{4}$  of NE  $\frac{1}{4}$  of NE  $\frac{1}{4}$ , Govt. Lot \_\_\_\_\_  
Sec. 19 Township 4N Range 3W B.M. Canyon County; additional  
points of diversion if any: \_\_\_\_\_
4. Water will be used for the following purposes:  
Amount 5.0cfs for industrial heat purposes from 1-1 to 12-31 (both dates inclusive)  
(cfs or acre-feet per annum) \*Per letter dated 12/3/87. JS  
Amount 5.0 cfs for Fish Propagation purposes from 1-1 to 12-31 (both dates inclusive)  
(cfs or acre-feet per annum)  
Amount \_\_\_\_\_ for \_\_\_\_\_ purposes from \_\_\_\_\_ to \_\_\_\_\_ (both dates inclusive)  
(cfs or acre-feet per annum)  
Amount \_\_\_\_\_ for \_\_\_\_\_ purposes from \_\_\_\_\_ to \_\_\_\_\_ (both dates inclusive)  
(cfs or acre-feet per annum)
5. Total quantity to be appropriated is (a) 5.0cfs and/or (b) \_\_\_\_\_  
cubic feet per second acre feet per annum
6. Proposed diverting works:
  - a. Description of ditches, flumes, pumps, headgates, etc. Well, pump - system will depend on  
type of water found when well is drilled.
  - 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 16 inches; proposed depth of well is 1,200 feet.
  - d. Is ground water with a temperature of greater than 90°F being sought? Yes
7. Time required for the completion of the works and application of the water to the proposed beneficial use is  
five (5) years (minimum 1 year).

RECORDED

Nov 05 1988

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

- Hydropower; show total feet of head and proposed capacity in KW. \_\_\_\_\_
- Stockwatering; list number and kind of livestock. \_\_\_\_\_
- Municipal; show name of municipality. \_\_\_\_\_
- Domestic; show number of households. \_\_\_\_\_
- Other; describe fully. Heat will be extracted by use of a "flow through" or recirculating system. Extracted heat will be utilized to control temperature in aquatic fish farm. In the alternative, the geothermal water may be used as an aquaculture medium if the quality proves satisfactory. \*Per letter of 12/3/87.

9. Description of place of use:

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

| TWP | RANGE | SEC. | NE¼ |     |     |     | NW¼ |     |     |     | SW¼ |     |     |     | SE¼ |     |     |     | TOTALS |
|-----|-------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------|
|     |       |      | NE¼ | NW¼ | SW¼ | SE¼ | NE¼ | NW¼ | SW¼ | SE¼ | NE¼ | NW¼ | SW¼ | SE¼ | NE¼ | NW¼ | SW¼ | SE¼ |        |
| 4N  | 3W    | 19   | I   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |        |
|     |       |      | F   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |        |
|     |       |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |        |
|     |       |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |        |
|     |       |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |        |
|     |       |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |        |
|     |       |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |        |
|     |       |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |        |
|     |       |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |        |

I = Industrial.

F - Fish Propagation

Total number of acres to be irrigated N/A

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

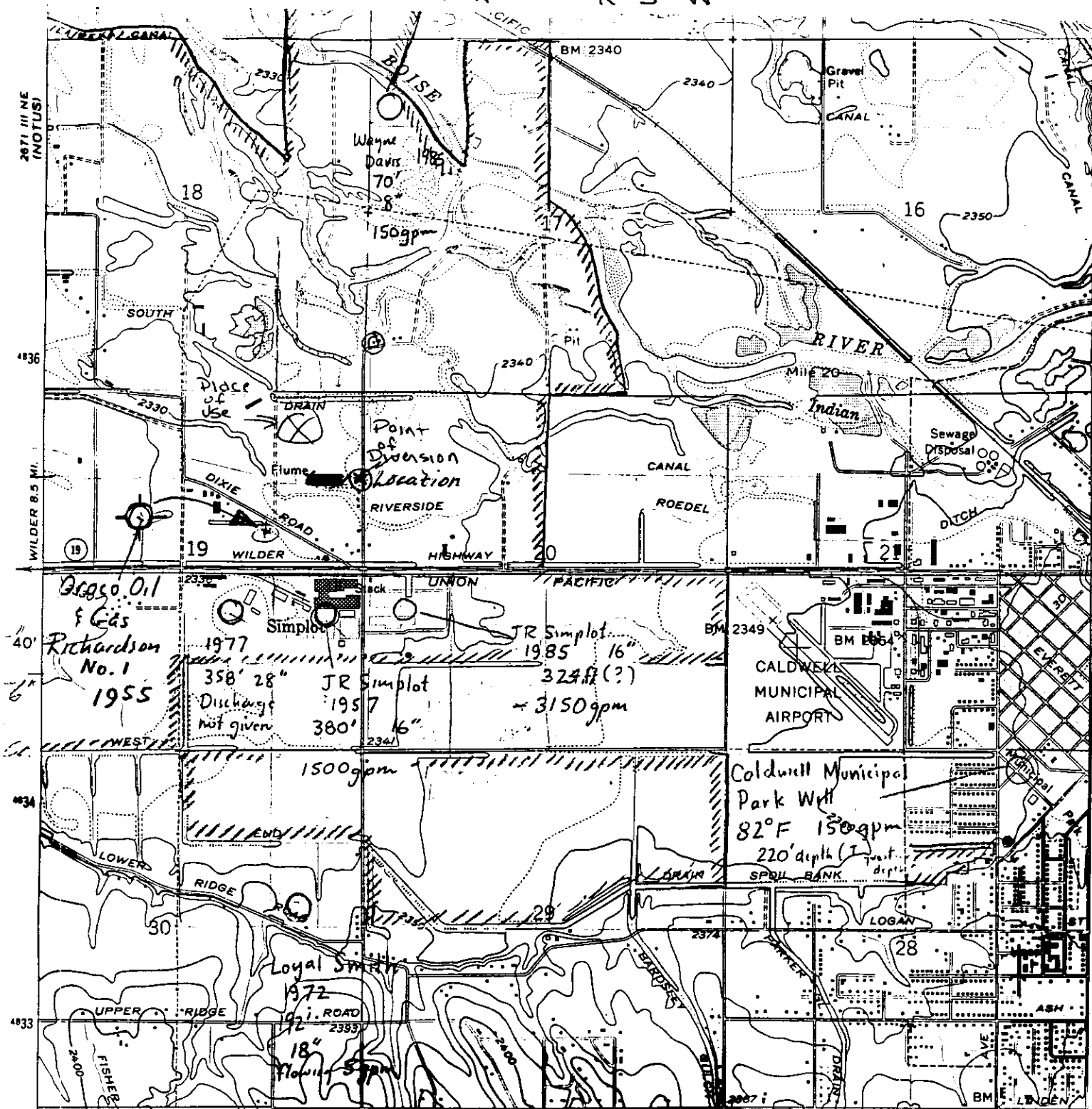
b. Who owns the land to be irrigated or place of use? Applicant

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: It is anticipated that this use will be nonconsumptive and an "upstream" injection well will be drilled to return cooled water to the aquifer to maintain pressure and quantity, without diluting temperature at point of diversion. In the alternative, the geothermal water may be used as an aquaculture medium if the quality proves satisfactory. \*Per letter of 12/3/87. JS

AUG 25 1987

13. Map of proposed project: show clearly the proposed point of diversion, place of use, section number, township and range number. T 4 N R 3 W



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

**FILED**

J. R. SIMPLOT COMPANY

AUG 05 1988

(Applicant)

Secretary

Received by ne 11-4-87 3:00 Proposed Priority 12/3/87  
Date 11-2-87 Time 11:30 Preliminary check by JP  
Fee \$ 125.00 Receipted by JP # 43992 Date 11/5/87  
AMENDED APP. FEB 20 REC'D 12/3/87 # 46030  
Publication prepared by JP Date 11/24/87 Published in Idaho Tribune  
12/2 & 12/9/87  
Publication approved 128 Date 12/21/87

### 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. 63-10553, and said application is hereby APPROVED.

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

- a. SUBJECT TO ALL PRIOR WATER RIGHTS.
- b. Proof of construction of works and application of water to beneficial use shall be submitted on or before February 1, 19 93.
- 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: SEE ATTACHED SHEET FOR CONDITIONS e thru n.

Witness my hand this 2<sup>nd</sup> day of May, 1988.

Richard H. Higin  
Director

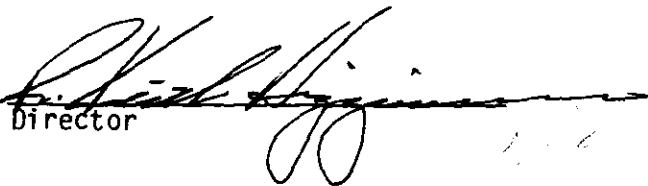
**MICROFILMED**

AUG 05 1988

ATTACHMENT TO CONDITIONS OF APPROVAL  
For Permit No. 63-10553

- e. Permit holder shall commence the excavation or construction of diverting works within one year of the date this permit is issued and shall proceed diligently until the project is complete.
- f. Prior to the diversion of water under this permit a flow measurement port or other device as specified by the Department shall be installed to provide for the installation of measuring equipment and the determination of the rate of diversion by the Department.
- g. Assignment or sale of this permit is subject to a determination by the Department that the permit holder has proceeded to develop the permit with due diligence and without speculation.
- h. The permit holder shall be required to provide the Department, upon request, information showing volume changes per hour necessary to maintain an adequate environment for the fish propagation facility. Volume changes per hour shall be based upon actual fish production.
- i. Return flow if discharged to a subsurface system must be authorized by a separate injection well permit, and return flow if discharged to a surface water system shall meet Idaho Water Quality Standards.
- j. This permit is subject to the agreement dated 1/27/88 between permit holder and protestant(s) to the extent such agreement covers matters within the jurisdiction of the Department of Water Resources.
- k. Use of water under this right is subject to policies set forth in the State of Idaho Water Plan, including Policy No. 5G.
- l. Permit holder shall comply with the conditions of drilling permit no. 63-87-Z-97.
- m. The primary use of water under this permit shall be for heating purposes as provided for in Section 42-233, Idaho Code.
- n. The Director retains jurisdiction of this permit to require reinjection of water if determined necessary.

Witness my hand this 2nd day of May, 1988.

  
Director

**MICROFILMED**

AUG 05 1988

RECEIVED

DEC 23 1987

Department of Water Resources  
Western Regional Office

AFFIDAVIT OF PUBLICATION

STATE OF IDAHO )  
 ) ss.  
County of Canyon )

Debra Martin del Campo  
of Nampa, Canyon County, Idaho, being first duly sworn, deposes  
and says:

1. That I am a citizen of the United States of America, and at all  
times hereinafter mentioned was over the age of eighteen years,  
and not a party to the above entitled action.

2. That I am the Principal Clerk of the Idaho Press-Tribune, a  
daily, (except Saturday) newspaper published in the City of Nampa  
and Caldwell, in the County of Canyon, State of Idaho; that the said  
newspaper is in general circulation in the said County of Canyon,  
and in the vicinity of Nampa and Caldwell, and has been uninter-  
ruptedly published in said County during a period of seventy eight  
consecutive weeks prior to the first publication of the notice, a copy  
of which is hereto attached.

3. That the notice, of which the annexed is a printed copy, was  
published in said newspaper  
Two times  
in the regular and entire issue of said paper, and was printed in  
the newspaper proper, and not in a supplement.

4. That said notice was published the following dates:  
December 16, 23, 1987

Debra Martin del Campo  
Subscribed and sworn to before me this  
23rd day of December  
19 87

Janna Lusk  
Notary Public, Residing at Nampa, Idaho

MICROFILMED

AUG 05 1988

MY COMMISSION EXPIRES  
JULY 12th, 1991

Department of Motor Resources  
Western Regional Office

AFFIDAVIT OF PUBLICATION

STATE OF IDAHO       )  
                              ) ss.  
County of Canyon       )

Debra Martin del Campo

of Nampa, Canyon County, Idaho, being first duly sworn, deposes  
and says:

1. That I am a citizen of the United States of America, and at all  
times hereinafter mentioned was over the age of eighteen years,  
and not a party to the above entitled action.

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and Caldwell, in the County of Canyon, State of Idaho; that the said  
newspaper is in general circulation in the said County of Canyon,  
and in the vicinity of Nampa and Caldwell, and has been uninter-  
ruptedly published in said County during a period of seventy-eight  
consecutive weeks prior to the first publication of the notice, a copy  
of which is hereto attached.

3. That the notice, of which the annexed is a printed copy, was  
published in said newspaper

Two times

in the regular and entire issue of said paper, and was printed in  
the newspaper proper, and not in a supplement.

4. That said notice was published the following dates:

December 2, 9, 1987

Debra Martin del Campo  
Subscribed and sworn to before me this

9th day of December  
1987

Janne Lusk  
Notary Public, Residing at Nampa, Idaho

MY COMMISSION EXPIRES  
JULY 12th, 1991

MICROFILMED

AUG 05 1988

**STATE OF IDAHO**  
**DEPARTMENT OF WATER RESOURCES**  
**Staff Analysis Sheet**  
**Beneficial Use Field Report**

**RECEIVED**

**A. Prior to Conducting the Exam, the File Contains:**

MAY 17 2002

Department of Water Resources

- ☐ Blank Field Report Form
- ☐ Copy of Permit
- ☐ Copy of Proof of Beneficial Use
- ☐ Copies of any Amendments/Orders with Conditions of Approval
- ☐ Well Inspection Form (If Needed)
- ☐ Aerial Photo Required? ☐ yes ☐ no If yes: ☐ copy attached
- ☐ SRBA Claim Required (required if proof filed by 11-19-1987)  
☐ Yes ☐ No If yes: ☐ claim filed? (check AJ5, AJQ1, AJQ4)
- ☐ Copy of U.S.G.S. Quad
- ☐ Check for Government Lots. If so, make a copy of government plat
- ☐ Check of P/D index \_\_\_\_\_ (initial & date)  
     Overlap ☐ yes ☐ no If yes: ☐ copy of exam(s) attached?\*
- Type of Overlap: ☐ Same source ☐ Other source
- ☐ Check of P/U index \_\_\_\_\_ (initial & date)  
     Overlap? ☐ yes ☐ no If yes: ☐ copy of water right(s) attached?\*
- Type of Overlap: ☐ Same land, same source  
                             ☐ Same land, other source  
                             ☐ Other land &/or other uses
- \*copies attached only if needed for analysis
- ☐ Irrigation from groundwater (all basins):  
     Surface water currently or previously used ☐ Yes ☐ No  
     If yes: identify water source, water right, and explain current or previous use.
- ☐ Scheduling Letter Sent? \_\_\_\_\_ (initial & date)
- ☐ Appointment Made and Telephone Conversation Memo Attached

**B. After Conducting the Exam, the File Contains:**

- ☐ Fully Completed and Signed Field Report Form
- ☐ Photographs of Point of Diversion and Place of Use

**C. Review and Processing:**

Exam Completed 63 4/10/02 (signature of examiner & date)  
 Exam Sent to State Office At 5-16-02 (initial & date)

RECEIVED  
MAY 17 2002  
DEPARTMENT OF WATER RESOURCES

## A. GENERAL INFORMATION

Permit No. 63-10553

1. Owner: JR SIMPLOT CO Phone No.

Current Address: PO Bx 27 BOISE ID 83707

2. Accompanied by: RON PARKS EXAM DATE: 5-2-96

Address: 20875 Wagner Rd Caldwell 83605 Phone No. 454 4263

Relationship to Permit Holder: Director of Operations Sungro

3. Source: groundwater tributary to \_\_\_\_\_

## B. OVERLAP REVIEW

1. Other water rights with the same place of use: 63-10629, 2425

2. Other water rights with the same point of diversion: 63-10629, 233N, S036, S037, S038

### C. DIVERSION AND DELIVERY SYSTEM

5039, 10034, 137A, 274, 374

**1. Point(s) of Diversion:**

[illegible]

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

**Indicate Method of Determination**

[illegible]

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

See attached Notes

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 |
|---------------------------------------|------------------|----|------------------|-----------|-----------------------------------|
| Gorse Well #1                         | Siemens          | 75 | 1DS6183-9        |           |                                   |
| <del>Ditch well #3</del>              | <del>Subme</del> |    |                  |           |                                   |
|                                       |                  |    |                  |           |                                   |

\*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: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

## MEMORANDUM

DATE: April 2, 2002

FROM: Lori Graves

TO: Exam File No. 63-10553 & 63-10629

Cindy Hodges conducted the field exam for this permit and permit no. 63-10553 5/2/1996. The exams have not been forwarded to the SO for licensing because she was unable to get a measurement for two pumped artesian geothermal wells under 63-10553. Since both rights were developed together for the same commercial establishment, Cindy was going to send both permits together as one package for licensing.

A measurement on the hot wells was never obtained. The permits were never licensed.

I contacted Vic Conrad with Simplot, and he confirmed that the commercial establishment Cindy found during her exam is now gone. Only two wells remain: the cold water well Cindy described in the NENE S19 on the beneficial use field report for permit no. 63-10629 and the artesian geothermal well Cindy described as the greenhouse well in the SENENE S19 on the beneficial use field report for 63-10553. However, the pump equipment in each well has been removed, eliminating the possibility of a measurement.

Vic does not want to lose the rights. He requested that the permits be licensed for the uses found, limited to the conditions permitted so that he could then transfer the rights for use elsewhere.

Fortunately, Cindy provided enough detail in her field notes to allow the permits to be licensed as follows:

63-10629—as Cindy recommended in her report, limited to 2500 GPD.

63-10553—Cindy found 160,140 sq ft of greenhouse space heated from the well. Based on the heating equation, operating at 75 degrees, 7.49 cfs is required for commercial heating use. Operating at 70 degrees, 5.8 cfs is required for commercial heating use. The well log listed an artesian closed in pressure of 32 psi. Using a theoretical equation and assuming operation at 60 psi, the pumping capacity calculates to:  $75 \text{ hp} \times 8.8 \times .7 / (60 - 32 \text{ psi}) \times 2.31 = 7.14 \text{ cfs}$ .

After reviewing the 63-10553 field findings and available info with Scott King, he considered the permit limit of **5.0 cfs** a reasonable licensing recommendation.

Please see Cindy's memo dated 6/7/1999 and beneficial use field reports for greater detail.

## **MEMORANDUM**

June 7, 1999

TO: Western Region Water Allocation Staff and Attachment to Beneficial Use Report

FROM: Cindy Hodges *CH*

RE: 63-10553 and 63-10629

I conducted a field exam in May 1996 for the two referenced permits, owned by Simplot Co. Permit 63-10553 is for the development of a geothermal well, and 63-10629 is for associated development of a cold water supply. There are some complex issues surrounding development under these permits, the most significant of which is that use has changed from heating and fish propagation to greenhouse space heating and hydroponic tomato production. The facility is now operating under the name of Simplot Sungro. The uses of the cold water well have been expanded to include consumptive uses which do not conform with the permit.

### **System Description**

1. There are four wells found in NENE Section 19, T04N R03W. Two are pumped artesian geothermal sources and two are cold water wells. One point of diversion was permitted under 10553 (hot) and two PODs were permitted for 10629 (cold), but two wells were developed in the geothermal zone and the third developed into cold water. The fourth well is not associated. Well logs are attached for the geothermal wells.
2. The primary greenhouse building is of peaked-roof construction with rigid plastic siding, covering approximately 2.5 acres. Hot water from both wells under 10553 is used to heat the primary house using in-floor pipes and forced air heat exchangers. All flows go to a common diversion box then are distributed by relift pump into the floor grid or the heat exchangers. Exit flows and/or excess flows from the main house go into a floor heating system in four auxiliary Quonset houses. See the attached calculations for estimated space heating requirements. Discharge of spent geothermal water from the greenhouses goes to cooling ponds and then to a west-bound drain running north of the property.
3. The cold well developed under 63-10629 is used for year-round production (9-11 month irrigation plus re-plant period) and seasonal evaporative cooling within the greenhouse, domestic use in the offices and employee areas, commercial use for sweet corn and tomato packing, and also was found to have an irrigation supply line connected to an approximately 10 acre nursery stock holding area to the east in NWNW Section 20. This well is said to have been drilled in 1988. I cannot locate a log. See the attached pages for information regarding annual volume for all uses (consumptive and non-consumptive) from this well.
4. A fourth cold well in NWNENE is not used at Sungro but was said to be used at the feedlot immediately to the west. This well may have been drilled in 1995 and the legal misidentified on the well log as NENWNE. It may be interconnected with the Sungro cold water well as backup supply for the feedlot.

## **Licensing problems and considerations**

1. Measurement of both hot wells is required. There is no way to estimate the pumped artesian flow. A measurement should also be taken for the cold well even though flow may be estimated for purposes of issuing this license. There are no measuring devices but there are locations for polysonic measurements on the cold well, and I recall an anubar port at one of the geothermal wellheads. There may also be a commingled line at the hot water distribution box where a polysonic measurement would be possible.
2. A specific condition of use on (cold water) permit 63-10629 was that use of water be non-consumptive. Both the irrigation and evaporative cooling uses within the operation are significantly consumptive, and the irrigation found in section 20 is simply not authorized under this permit. The non-consumptive portion of the commercial activity found during the exam may be recommended under the permit, but the greater share of the cold water diversion is not authorized.
3. The hatchery originally developed under the permits was closed in 1991. The conversion to greenhouses began shortly thereafter and was declared only partly completed by Simplot in late 1994 when the first proof came due. Simplot tried and failed to obtain a second extension of time and it was at this time that IDWR first became aware that the use had changed under the permit. IDWR recommended that proofs be filed and the licenses issued for that development which occurred at the hatchery, with a transfer of nature of use to be made subsequently. Proof was filed in January 1995 (late) for 10629 and in February 1996 for 10553. At the time of my field exam in May 1996 the greenhouse appeared to be in full production.

## **Changing nature of use for geothermal wells**

The nature of use under geothermal permit 63-10553 should be modified with a licensing amendment rather than with a transfer. There is sufficient data to evidence that the greenhouses were completed by the proof date of February 1996, a few months before the exam. If, as IDWR once recommended, we license this right to fish propagation as originally permitted, more comprehensive information on the old hatchery operation than we presently have must be collected from Simplot. And, we would be further burdening ourselves by first requiring the processing of the license and then the transfer.

In the permanent file there is basic information regarding the size and configuration of the hatchery and production records for the first year. An early piece of correspondence from Simplot also estimates the amount of hot water necessary at various developed temperatures to operate the facility at full production. From this, I was able to estimate that the *implied* permit limit for fish propagation is significantly greater than the discovered beneficial use for space heating. The change in Nature of Use should cause no injury to other rights and represents no expansion of use.

## **Changing nature of use of cold water well**

The change in nature of use argument presented above is also applied to the cold water permit 10629 to the extent of the non-consumptive uses *only*. Those uses are limited to domestic use in the office and employee areas, and some of the commercial use in tomato and corn

processing (clean water). The non-consumptive uses, including the office building, were essentially carried over from one operation to the other and have likely not changed much.

Commercial uses for greenhouse production (irrigation) and evaporative cooling, both in the houses and for hydrocooling of produce (spray with chilled water) are consumptive and not within the implied limit of the permit. Irrigation of outside nursery stock also cannot be considered under this permit. The timing of their development with respect to proof filing is moot.

#### **Overlap review and considerations for authorizing consumptive uses**

The attached POU overlap review shows claim nos. 63-05036, 05037, 05038, 05039, and permit 63-10034 used for irrigation within NENE S19 and NWNW S20. PODs for these rights are located in NESE S19 and NWSW S20. According to a BU exam conducted for the permit 10034 in 1987 this irrigation is a part of a processing plant waste water land application system used on the Simplot tracts. (The industrial rights used are 63-02731, 03107, 04968 and 07244. The industrial use shown on the irrigation rights also refers to these processing plants in SE S19 and SW S20.) Also from the exam notes, about 25% of the required irrigation water is fresh water which supplements the industrial waste. The exam map verified about 30 ac irrigation in NENE S19 and about 21 ac in NWNW S20 and mentions "a research plot with 12 acres of trees" (the nursery stock?) but does not specify the location of that plot. With the exception of the nursery plot, the uses from both hot and cold wells found at Sungro in 1996 were new uses developed after the 10034 BU exam. This field exam is still at the regional office.

Consumptive beneficial use from cold water wells verified in NENE S19 and NWNW S20 pursuant to the 10034 field exam will not automatically benefit the Sungro operation because of the timing of the development. A license amendment of 63-10034 is not an option to authorize the non-permitted consumptive uses. Whether this use may be transferred to the Sungro well after licensing to cover the unauthorized uses found is unknown. The hatchery development began in about 1988. Consumptive uses were developed at the greenhouse between about 1991 and 1994.

An older transfer application filed and numbered #4615, which relates to many of the overlapping rights, also overlaps the permitted place of use. This transfer cannot be located at the State Office. The purpose of the transfer is not clear but I suspect from the rights involved it was to more fully consolidate the waste application system. Perhaps this application is still at the region? Depending on the disposition of this application, it may be of some use to Simplot, but it will have to be located first.

#### **Recommended actions**

1. As soon as possible when geothermal wells are in use (late summer or early fall 1999?) measure all three wells at Sungro. If necessary, collect any missing information needed to complete exam 63-10034.
2. Finalize all three license recommendations (10034, 10553, 10629) and forward to S.O. to facilitate future transfer.
3. Locate/resurrect transfer 4615 or solicit a new transfer providing for consumptive uses of cold water at Sungro. Use figures in 63-10629 BU exam for consumptive volume requirements.

**E. NARRATIVE/REMARKS/COMMENTS**

See attached memo. Permit recommended for licensing  
amendment to change Nature of use and add POD.

Overlaps: All pertinent overlaps discussed in memo.  
All others are from surface water and do not  
affect the permit

\* No measuring devices present

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

## F. FLOW CALCULATIONS

Measured Method:

☒ Additional Computation Sheets Attached  
*see attached heat req.  
calculations and 4/2/02  
memo*

## G. VOLUME CALCULATIONS

### 1. Volume Calculations for Irrigation:

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

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

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

### 2. Volume Calculations for Other Uses: *See attached*

$V_{REQ} = 2971 \text{ AF @ } 75^\circ \text{ interior space heating}$

$V_{D.R.} = 5 \text{ cfs} \times 200 \text{ days} \times 1.9835 = 1984 \text{ afa}$

## H. RECOMMENDATIONS

### 1. Recommended Amounts

| Beneficial Use | Period of Use |              | Rate of Diversion<br>Q (cfs) | Annual Volume<br>V (afa) |
|----------------|---------------|--------------|------------------------------|--------------------------|
|                | From          | To           |                              |                          |
| <u>HEATING</u> | <u>1-1</u>    | <u>12-31</u> | <u>5 cfs</u>                 | <u>1984 afa</u>          |
| _____          | _____         | _____        | _____                        | _____                    |
| _____          | _____         | _____        | _____                        | _____                    |
| _____          | _____         | _____        | _____                        | _____                    |
| Totals:        |               |              | <u>5 cfs</u>                 | <u>1984 afa</u>          |

### 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 *Change Nature of USE*

## I. AUTHENTICATION

Field Examiner's Name C. Hodges *by* ly Date 4/10/02

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

SEAL

63-10553

## SIMPLIOT SUNGRO HEAT REQUIREMENTS

$$A = 160,140 \text{ ft}^2 \text{ (all houses)}$$

$$e = 1.11$$

$$T_i = 75^\circ \text{F}$$

$$T_o = 4^\circ \text{F}$$

$$S = 100^\circ \text{F}$$

$$D = 200$$

$$\begin{aligned} E (\text{BTU/hr req'd}) &= [e \times (T_i - T_o)] A \\ &= [1.11 \times (75 - 4)] \times 160,140 \\ &= 1.26 \times 10^7 \end{aligned}$$

$$\begin{aligned} T_s (\text{Temp Drop across system}) &= 0.3 \times (S - T_i) \\ &= 0.3 \times (100 - 75) \\ &= 7.5 \end{aligned}$$

$$\begin{aligned} Q (\text{Flow Rate Req'd}) &= E / (500 \times T_s) \times 448.8 \\ &= 1.26 \times 10^7 / (500 \times 7.5) \times 448.8 \\ &= 7.49 \text{ cfs} \end{aligned}$$

$$\underline{V_{REQ} = 7.49 \times 200 \times 1.9835 = 2971}$$

$$@ T_i = 70:$$

$$T_s = 9$$

$$E = 1.1 \times 10^7$$

$$Q = 5.8 \text{ cfs}$$

$$\underline{V_{REQ} \quad 5.8 \times 200 \times 1.9835 = 2300} \quad \text{AFA}$$

$$\text{permit limit } 5.0 \times 200 \times 1.9835 = 1983.5 \quad \text{AFA}$$

5/2/96

63-10553 (Geothermal)

63-10629 (Cold)

pg 1

Simplot Sungto - Ron Parks

Geothermal System - Greenhouse well is primary,  
Ditch well (#3) is backup.

Using both in-floor pipes & heat exchangers  
with forced air, heating only, greenhouses  
2 1/2 acres under one building -

Waste flows - discharged to cooling ponds  
then to drain ditch

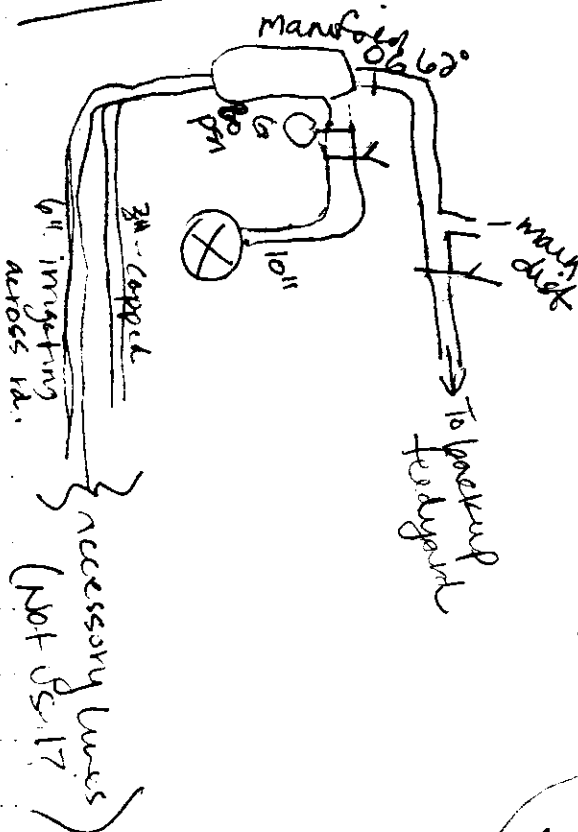
All flows to common diversion box, pumped  
to floor grids or heat exchangers on demand.  
Pump runs continually. From box to ponds

Cold Water System - pumped well, runs continuously  
used for irrig inside gases, cooling (evap pads),  
process/packaging for tomatoes & sweet  
corn. Also in office bldg, & backup  
for feedlot. Also connected to 1995 feedlot  
well.

COLD WELL: 60 HP US Elec 3 ph  
ID 6234/S045059R123R-9  
layne pump, 8" discharge  
80 psi at manifold  
(Riverside) - pump set ~170  
TD=220 SWC 128 1176 GMP

5/2/96  
Pg 2

COLD WELL



(OLD KLEK)  
100 UNDER 63-10034?  
25,500 emitters

Tim Hathaway - glase mgr  
ca .01 gpm, avg 20 sec  
10-30 times daily  
depending on conditions

4 rows at a time  
~320 emitters per row  
season. 9-11 mos, plant  
about end of December

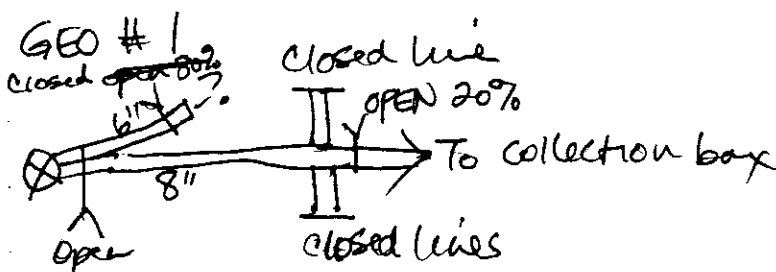
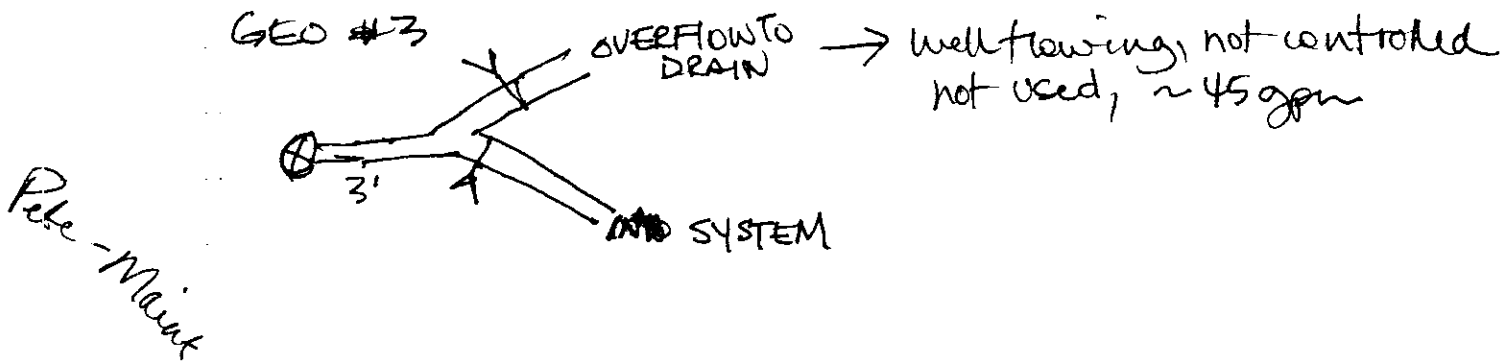
3 ~~3~~ FT yr-round  
12 Seasonal (9 mos)

OFC: 12 FT

~~168,000 ft<sup>2</sup> 3~~ Greenhouses:  
21,000 ft<sup>2</sup> ~~stealer~~  
2 @ 550 x 30 Quonset  
2 @ 504 x 30 "  
~~241,920 ft<sup>2</sup> 3~~

> floor heat

~~108,900 ft<sup>2</sup> 2~~ avg 2' high =  
↑ ~~98,400 ft<sup>2</sup> 3~~  
Main house 108,900 ft<sup>2</sup>  
2 1/2 acre peaked roof  
house, plastic panel  
overflow goes to floor  
and in Quonsets



75 HP Siemens  
3ph  
ID 56183-9

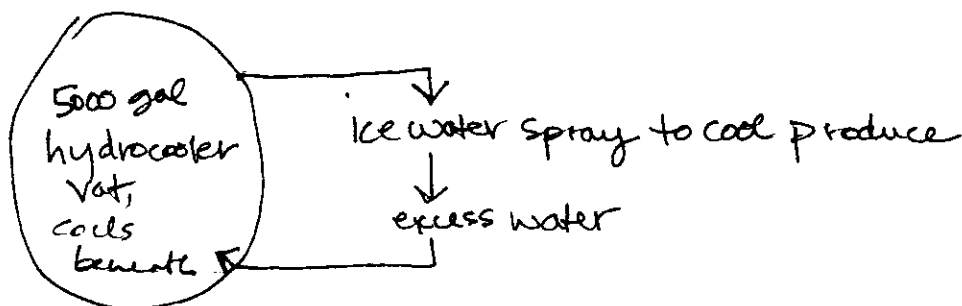
5/2/96

P3

Geo #1 850-920 gpm Pumped flows } meas w/  
Geo #3 375 gpm " " } manometer

### Processing

2 1/2 mos process sweet corn, refrigerated water  
cooling July - Sept 25 FT (long shift)



refill 500-1000 gal 2-3 times a day (10 weeks)

+ mix clean water

assume seven day  
weeks

Evaporative cooling - 24 coolers (east end of houses)

each w/ recirc pump/fan est 2 gpm  
(each)

avg supply thru 1/2" copper tube -

avg run time thru cooling season 12 hrs/day

use - May 1 → Sept 30 ~ 150 days

under 63-10034?

25-20K lb/wk  
60 feet

63-10553 Simplot Sungro

CHodges  
6-7-99

License amendment analysis to change Nature  
of use

Letter of 4-20-88 estimates 1800 million gallons  
of 100° water required for the hatchery

1800 million gals = 5524 AF

New heating requirement <sup>~ 2900</sup> ~~2428~~ AF

Implied limit 5524 <sup>></sup> ~~2428~~ actual limit <sup>~ 2900</sup> ~~2428~~

Allow license amendment

---

facility turnover estimates:

facility vol = 16 million gal

1800 mill gals = 4.9 mill gal/day

Exchange of hot flows every ~~4.9~~ days 3.3 days

(Does not include cold water required to  
moderate temperature)



PERMIT 63 10553/10629 INIT *gl*  
T. R. S. 0/0  
P/D 4N 3W 19 NENE  
SCALE 1:12K  
PHOTO ID. X5 1981



POD # 1

Greenhouse Well

Geothermal



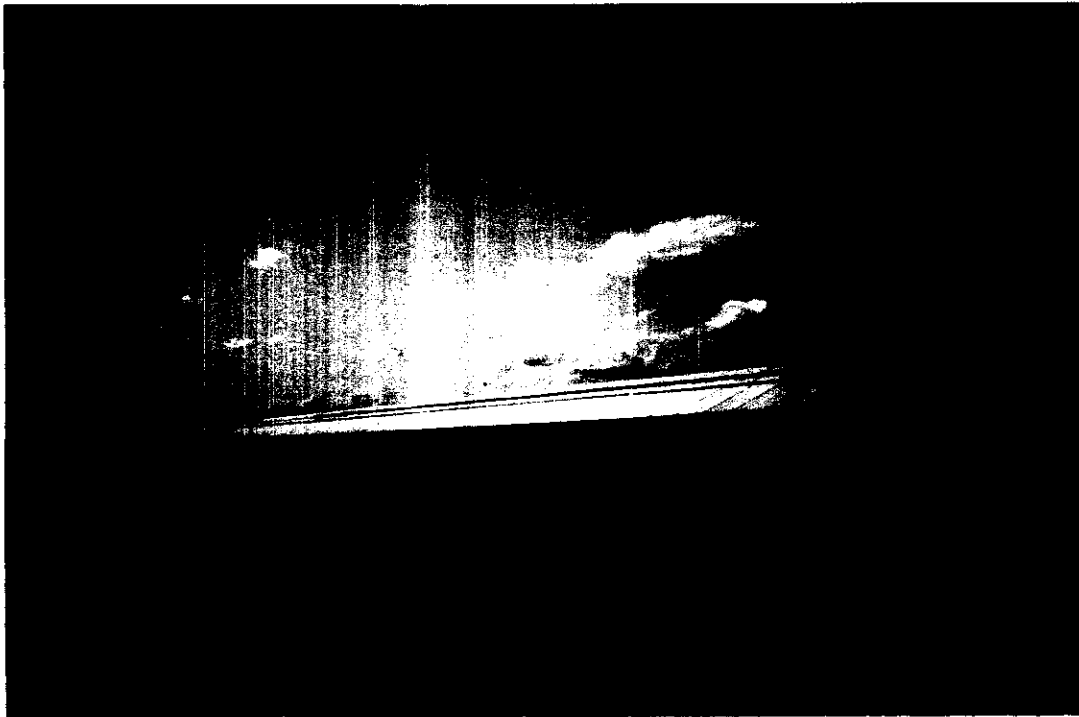
POD # 2

Ditch Well

Geothermal

63-10553

gjh



Primary  
House -  
(Cooling system  
visible end  
of building -  
see 10629)



Lagoon/  
Discharge  
Cooling  
Pond

63-10553

ije

## IDAHO DEPARTMENT OF WATER RESOURCES

### WELL INSPECTION FORM

*Greenhouse well  
#1*

1. DRILLING PERMIT NO: \_\_\_\_\_ OTHER APPLICABLE NO: \_\_\_\_\_

2. OWNER: \_\_\_\_\_ Phone: \_\_\_\_\_  
Address: \_\_\_\_\_

3. WELL LOCATION: Twp \_\_\_\_\_, Rge. \_\_\_\_\_, Sec. \_\_\_\_\_, \_\_\_\_\_ 1/4 \_\_\_\_\_ 1/4  
County \_\_\_\_\_ (Provide sketch map and photo on reverse.)

4. DRILLER: \_\_\_\_\_ Lic. No. \_\_\_\_\_  
When Drilled? *1988*

5. WELL CONSTRUCTION:

Casing Diameter *12* inches Water tight cap? ☒ Yes ☐ No Access Port: ☒ Yes ☐ No

Casing  $\geq$  12 inches above ground? ☒ Yes ☐ No - Describe \_\_\_\_\_

Depth of Casing \_\_\_\_\_ ft. Method Drilled \_\_\_\_\_

Condition of Well Casing: ☐ Good ☒ Fair ☐ Poor Describe *fair amt corrosion*

Control Valve? ☒ Yes ☐ No Pressure Gauge: ☐ Yes ☐ No

Condition of Piping and Valving *OK*

Auger to a depth of \_\_\_\_\_ ft. Evidence of Annular Seal ☐ Yes ☐ No

Are there obvious construction problems that may be a source for contamination or waste of water?

☐ Yes ☒ No (Describe in Remarks and Attach Photo - On Reverse)

6. HYDROLOGIC INFORMATION:

Depth to Static Water \_\_\_\_\_ ft. Water Temperature \_\_\_\_\_ °F

Flowing Artesian ☒ Yes ☐ No Pressure: \_\_\_\_\_ (psi)

Water Sample Taken? ☐ Yes ☐ No If yes, describe purpose \_\_\_\_\_

Water Quality Measurements/Observations (Describe) \_\_\_\_\_

7. WELL USE:

|                                       |                                                   |                                     |
|---------------------------------------|---------------------------------------------------|-------------------------------------|
| <input type="checkbox"/> Domestic     | <input type="checkbox"/> Irrigation               | <input type="checkbox"/> Stock      |
| <input type="checkbox"/> Test         | <input type="checkbox"/> Municipal                | <input type="checkbox"/> Industrial |
| <input type="checkbox"/> Abandoned    | <input type="checkbox"/> Waste Disposal/Injection | <input type="checkbox"/> Not Used   |
| <input type="checkbox"/> Other: _____ |                                                   |                                     |

**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:** \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_  
Signature of Dept. Representative & Title

\_\_\_\_\_  
Inspection Date

**PHOTOS, DRAWINGS, OTHER ATTACHMENTS:**

STATE OF IDAHO  
DEPARTMENT OF WATER RESOURCES  
**WELL DRILLER'S REPORT**

USE TYPEWRITER OR  
BALLPOINT PEN

State law requires that this report be filed with the Director, Department of Water Resources **AUG 15 1988**  
within 30 days after the completion or abandonment of the well.

**1. WELL OWNER** greenhouse well  
Name J.R. Simplot  
Address One Capital Center  
P.O. Box 27 Boise, ID 83707  
Owner's Permit No. 63-87-297

**2. NATURE OF WORK** 63-10553  
☒ New well ☐ Deepened ☐ Replacement  
☐ Abandoned (describe abandonment procedures such as materials, plug depths, etc. in lithologic log)

**3. PROPOSED USE**  
☐ Domestic ☐ Irrigation ☐ Test ☐ Municipal  
☐ Industrial ☐ Stock ☐ Waste Disposal or Injection  
☒ Other Geo-Thermal (specify type)

**4. METHOD DRILLED**  
☒ Rotary ☐ Air ☐ Hydraulic ☐ Reverse rotary  
☐ Cable ☐ Dug ☐ Other

**5. WELL CONSTRUCTION**  
Casing schedule: ☒ Steel ☐ Concrete ☐ Other  
Thickness Diameter From To  
22 inches inches + 0 feet 30 feet  
16 inches inches + 0 feet 548 feet  
12 3/4 inches inches + 1 feet 1083 feet  
Was casing drive shoe used? ☐ Yes ☒ No  
Was a packer or seal used? ☒ Yes ☐ No  
Perforated? ☒ Yes ☐ No  
How perforated? ☐ Factory ☐ Knife ☒ ~~Shot~~ Shot  
Size of perforation 1/2 inches by 1/2 inches  
Number From To  
400 perforations 1083 feet 1043 feet  
perforations feet feet  
perforations feet feet  
Well screen installed? ☒ Yes ☐ No  
Manufacturer's name Johnson  
Type E/S Stainless Model No. \_\_\_\_\_  
Diameter 10 1/2 Slot size .15 Set from 1095 feet to 1025 feet  
Diameter Slot size Set from feet to feet  
Gravel packed? ☐ Yes ☒ No ☐ Size of gravel \_\_\_\_\_  
Placed from feet to feet  
Surface seal depth 548 Material used in seal: ☒ Cement grout  
☐ Bentonite ☐ Puddling clay ☐ \_\_\_\_\_  
Sealing procedure used: ☐ Slurry pit ☐ Temp. surface casing  
☒ Overbore to seal depth  
Method of joining casing: ☐ Threaded ☒ Welded ☐ Solvent Weld  
☒ Cemented between strata  
Describe access port 2" Opening 6" from top of casing

**LOCATION OF WELL**  
Sketch map location must agree with written location.  
Subdivision Name \_\_\_\_\_  
Lot No. \_\_\_\_\_ Block No. \_\_\_\_\_  
Canyon County, ID (2 Miles West Of Caldwell)  
T. 4N S. 19 E. 1/4 NE 1/4 Sec. 19 T. 4N N/S, R. 3W E/W.

**7. WATER LEVEL** Department of Water Resources  
Static water level \_\_\_\_\_ feet below land surface.  
Flowing? ☒ Yes ☐ No G.P.M. flow 500  
Artesian closed-in pressure 32 p.s.i.  
Controlled by: ☒ Valve ☒ Cap ☐ Plug  
Temperature 102 °F. Quality Good  
Describe artesian or temperature zones below.

**8. WELL TEST DATA**

|                               |                                 |                              |                                |
|-------------------------------|---------------------------------|------------------------------|--------------------------------|
| <input type="checkbox"/> Pump | <input type="checkbox"/> Bailer | <input type="checkbox"/> Air | <input type="checkbox"/> Other |
| Discharge G.P.M.              | Pumping Level                   | Hours Pumped                 |                                |
|                               |                                 |                              |                                |
|                               |                                 |                              |                                |
|                               |                                 |                              |                                |

**9. LITHOLOGIC LOG**

| Bore Diam. | Depth From | To   | Material                             | Water Yes | No |
|------------|------------|------|--------------------------------------|-----------|----|
|            | 0          | 150  | Interbedded Sand & Gravel            |           |    |
|            | 150        | 165  | Sandstone                            |           |    |
|            | 165        | 180  | Shale                                |           |    |
|            | 180        | 205  | Clay w/Silty Interbeds               |           |    |
|            | 205        | 218  | Blue Clay w/Tan Silty Interbeds      |           |    |
|            | 218        | 230  | Blue Clay                            |           |    |
|            | 230        | 250  | Blue Clay w/Sandstone Interbeds      |           |    |
|            | 250        | 280  | Light Grey To Blue Clay w/Shale      |           |    |
|            | 280        | 302  | Blue-Green Clay                      |           |    |
|            | 302        | 345  | Green To Grey Clay w/Sandstone       |           |    |
|            | 345        | 415  | Blue-Green Clay                      |           |    |
|            | 415        | 480  | Sandstone Upper Geothermal Aquifer   |           |    |
|            | 480        | 570  | Shale w/Sandstone Interbeds          |           |    |
|            | 570        | 580  | Sandy Shale                          |           |    |
|            | 580        | 600  | Hard Shale                           |           |    |
|            | 600        | 630  | Blue Shale                           |           |    |
|            | 630        | 680  | Brown To Green Mudstone w/Silty Sand |           |    |
|            | 680        | 693  | Brown Mudstone & Siltstone           |           |    |
|            | 693        | 700  | Fine Sand                            |           |    |
|            | 700        | 715  | Green & Black Shale                  |           |    |
|            | 715        | 770  | Sandy Shale                          |           |    |
|            | 770        | 845  | Sandstone Minor Shale Interbeds      |           |    |
|            | 845        | 855  | Hard Black Shale                     |           |    |
|            | 855        | 950  | Sandstone w/Silty Interbeds          |           |    |
|            | 950        | 970  | Shale                                |           |    |
|            | 970        | 1015 | Shale w/Sandstone Interbeds          |           |    |
|            | 1015       | 1090 | Sandstone w/Shale Interbeds          |           |    |
|            | 1090       | 1140 | Sandstone w/Shale Middle Geothermal  |           |    |
|            | 1140       | 1200 | Sandstone w/Clay Interbeds           |           |    |

**RECEIVED**  
**JUN 01 1995**  
WATER RESOURCES  
WESTERN REGION

**10.** Work started \_\_\_\_\_ finished 1988

**11. DRILLERS CERTIFICATION**  
I/We certify that all minimum well construction standards were complied with at the time the rig was removed.  
Firm Name Thomas Drilling, Inc. Firm No. 390  
Address Rt #1 Afton, WY 83110 Date \_\_\_\_\_  
Signed by (Firm Official) Sandra Thomas  
and  
(Operator) Vincent Thomas

## CONVERSATION MEMORANDUM

DATE 4/29/93FILE ~~63-10553~~ 63-10553/10629 <sup>file in my dc cjt</sup>  
 ↑ proof due 2/1/96 Do with

NAME OF PARTY \_\_\_\_\_

EMPLOYEE Cindy HodgesRE: Use of Simplot facility

While on artesian well inspections (4/23/93) I visited this facility. While these permits were written for heat/fish propagation, the current use (under Simplot SunGro) is for modified hydroponic tomato & misc greenhouse production. ~~The~~ The heating component on 10553 from geothermal wells is still appropriate. However, fish propagation on both permits should more accurately be changed to COMMERCIAL, used for irrigation. In order to ease the eventual modification of the permits, I have requested a plan of the original fish propagation facility be sent for the files. In assessing consumptive use of the ~~facility~~ <sup>as developed</sup> total surface area <sup>the original proposal</sup> of fish tanks will need to be known ~~in~~ order to compare the consumptive use of the new facility & see if the original permit can cover the new use.

\* Change need not occur until field exams are conducted.

Vic Conrad

atg in  
charge of  
H2O rights

389-7359

R Simplot Company


**Simplot  
SunGro**

 Advanced Field and  
Greenhouse Agriculture

Growing Quality Products for a Quality Life

**Kendal Meier**  
Director of Operations

 20875 Wagner Road  
Caldwell, Idaho 83605

 (208) 454-4263  
Fax (208) 454-4740

RCN PARKS

100 + 500

## CONVERSATION MEMORANDUM

DATE 4/25/88

FILE 63-10553

NAME OF PARTY Ed Miller

EMPLOYEE Dave Tuthill

RE: Well Drilling Operation

Mr. Miller called to complain that the drillers of J.R. Simplot's well located next to his property purposely showered his cars and his house with tailings from the drilling operation. He threatened to shoot someone if this and other problems are not rectified.

I explained that while we do not have jurisdiction ~~to~~ regarding his concerns, I would contact Bruce Belger to suggest that a mobile cleaning crew come by his house to clean up the ~~smog~~ impacted area. After our call, I called Mr. Belger with the suggestion, which he said he would take into account. I mentioned to Bruce the shooting threat which he said he had heard last Friday as well.

Dor

Permit No. 63-10553 Reviewed by [Signature] Date 2-14-96

Geothermal heating

Correct Uses? yes

New Address ✓ Proof Made 2-1-96

February 14, 1996

J.R. SIMPLOT CO.  
P.O. BOX 27  
BOISE ID 837070000

PROOF ACKNOWLEDGMENT LETTER

RE: PERMIT NO. 63-10553

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

RECEIVED

FEB 23 1996

FEB 01 1996

## WELL DRILLER'S REPORT

State 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.

Department of Water Resources

## 1. WELL OWNER ("Geothermal Well #3")

Name J.R. Simplot Company Well #3Address 20875 Wagner Road Caldwell, ID 83605Owner's Permit No. 63-90-2-006

## 2. NATURE OF WORK

- ☒ New well ☐ Deepened ☐ Replacement  
☐ Abandoned (describe abandonment procedures such as materials, plug depths, etc. in lithologic log)

## 3. PROPOSED USE

- ☐ Domestic ☐ Irrigation ☐ Test ☐ Municipal  
☒ Industrial ☐ Stock ☐ Waste Disposal or Injection  
☐ Other \_\_\_\_\_ (specify type)

## 4. METHOD DRILLED

- ☒ Rotary ☐ Air ☐ Hydraulic ☐ Reverse rotary  
☐ Cable ☐ Dug ☐ Other \_\_\_\_\_

## 5. WELL CONSTRUCTION SEE ATTACHMENT

Casing schedule: ☒ Steel ☐ Concrete ☐ Other \_\_\_\_\_

| Thickness  | Diameter  | From     | To       |
|------------|-----------|----------|----------|
| 375 inches | 26 inches | 0 feet   | 60 feet  |
| 375 inches | 20 inches | 0 feet   | 600 feet |
| 375 inches | 12 inches | 0 feet   | 395 feet |
| 277 inches | 8 inches  | 395 feet | 941 feet |

Was casing drive shoe used? ☐ Yes ☒ NoWas a packer or seal used? ☐ Yes ☒ NoPerforated? ☐ Yes ☒ NoHow perforated? ☐ Factory ☐ Knife ☐ Torch

Size of perforation \_\_\_\_\_ inches by \_\_\_\_\_ inches

| Number             | From       | To         |
|--------------------|------------|------------|
| _____ perforations | _____ feet | _____ feet |
| _____ perforations | _____ feet | _____ feet |
| _____ perforations | _____ feet | _____ feet |

Well screen installed? ☒ Yes ☐ No SEE ATTACHMENTManufacturer's name Johnson FiltrationType SS Double x-tra strength Model No. \_\_\_\_\_Diameter 8 Slot size .015 Set from \_\_\_\_\_ feet to \_\_\_\_\_ feetDiameter 6 Slot size channel pack feet to \_\_\_\_\_ feetGravel packed? ☒ Yes ☐ No ☐ Size of gravel 20-40Placed from surf feet to 660 feetSurface seal depth 50 Material used in seal: ☒ Cement grout☐ Bentonite ☐ Pudding clay ☐ \_\_\_\_\_Sealing procedure used: ☐ Slurry pit ☐ Temp. surface casing☒ Overbore to seal depthMethod of joining casing: ☐ Threaded ☒ Welded ☐ Solvent

Weld

☐ Cemented between strata

Describe access port \_\_\_\_\_

## 7. WATER LEVEL

Static water level \_\_\_\_\_ feet below land surface.

Flowing? ☒ Yes ☐ No G.P.M. flow 45

Artesian closed-in pressure \_\_\_\_\_ p.s.i.

Controlled by: ☒ Valve ☐ Cap ☐ PlugTemperature 91 °F. Quality \_\_\_\_\_

Describe artesian or temperature zones below.

## 8. WELL TEST DATA

☒ Pump ☐ Bailer ☐ Air ☐ Other \_\_\_\_\_

| Discharge G.P.M. | Pumping Level | Hours Pumped |
|------------------|---------------|--------------|
| 325              | 340           | 12           |
|                  |               |              |
|                  |               |              |

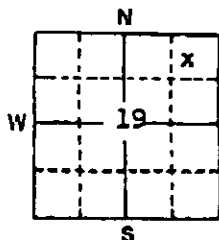
## 9. LITHOLOGIC LOG

| Bore<br>Diam. | Depth |     | Material                  | Water |    |
|---------------|-------|-----|---------------------------|-------|----|
|               | From  | To  |                           | Yes   | No |
| 30            | 0     | 50  | Tan & brown gravel & sand |       |    |
| 24            | 50    | 80  | Gry clay & sand           |       |    |
|               | 80    | 90  | Gry to white sand         |       |    |
|               | 90    | 160 | Gry clay w/ ss interbeds  |       |    |
|               | 160   | 185 | Sand                      |       |    |
|               | 185   | 220 | Clay                      |       |    |
|               | 220   | 240 | Sand w/ clay streaks      |       |    |
|               | 240   | 260 | Clay                      |       |    |
|               | 260   | 315 | Sand w/ clay streaks      |       |    |
|               | 315   | 335 | Clay                      |       |    |
|               | 335   | 350 | Gry sand                  |       |    |
|               | 350   | 375 | Clay                      |       |    |
|               | 375   | 465 | Sand w/ clay interbeds    |       |    |
|               | 465   | 630 | Clay w/ sand interbeds    |       |    |
| 17.5          | 630   | 655 | Gry sand-clean fine gr    | x     |    |
|               | 655   | 685 | Clay                      |       |    |
|               | 685   | 707 | Sand-dirty fine gr        | x     |    |
|               | 707   | 748 | Clay                      |       |    |
|               | 748   | 767 | Gry sand-fine gr          | x     |    |
|               | 767   | 830 | Clay w/ sand streaks      |       |    |
|               | 830   | 853 | Gry sand-fine gr          | x     |    |
|               | 853   | 873 | Clay                      |       |    |
|               | 873   | 890 | Gry sand-fine gr          | x     |    |
|               | 890   | 897 | Clay                      |       |    |
|               | 897   | 920 | sand-fine gr              | x     |    |
|               | 920   | 954 | Clay                      |       |    |
|               | 954   | 990 | Clay w/ sand streaks      |       |    |

## 10.

Work started 3-31-90 finished 8-1-90

## 6. LOCATION OF WELL

Sketch map location must agree with written location.

Subdivision Name \_\_\_\_\_

Lot No. \_\_\_\_\_ Block No. \_\_\_\_\_

County CanyonNE ¼ NE ¼ Sec. 19 T. 1 N. S. R. 3 E. W.

## 11. DRILLERS CERTIFICATION

I/We certify that all minimum well construction standards were  
complied with at the time the rig was removed.Firm Name Materi Exploration Firm No. 429Address Box 500 Upton, WY Date 12-15-90

82730

Signed by (Firm Official)

and

(Operator)

FEB 23 1996

RECEIVED

STATE OF IDAHO  
DEPARTMENT OF WATER RESOURCESUSE TYPEWRITER OR  
POINT PEN

FEB 01 1996

## WELL DRILLER'S REPORT

State 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.

AUG 15 1993

| <p><b>1. WELL OWNER</b> ("Geothermal Well #1")</p> <p>Name <u>J.R. Simplot</u></p> <p>Address <u>One Capital Center</u><br/><u>P.O. Box 27 Boise, ID 83707</u></p> <p>Owner's Permit No. <u>63-87-297</u></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <p><b>7. WATER LEVEL</b> Department of Water Resources</p> <p>Static water level _____ feet below land surface.</p> <p>Flowing? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No G.P.M. flow <u>500</u></p> <p>Artesian closed-in pressure <u>32</u> p.s.i.</p> <p>Controlled by: <input checked="" type="checkbox"/> Valve <input checked="" type="checkbox"/> Cap <input type="checkbox"/> Plug</p> <p>Temperature <u>102</u> °F. Quality <u>Good</u></p> <p><i>Describe artesian or temperature zones below.</i></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                  |                                      |              |                  |                 |               |                |                  |                                  |                 |                 |                      |                 |                           |                  |                 |                 |               |               |           |      |    |                         |                  |                  |                       |               |               |                       |               |               |                                                                                                                                                                                                                                                                                                                                                                                                    |  |  |  |     |     |                                 |  |  |  |     |     |           |  |  |  |     |     |                                 |  |  |  |     |     |                                 |  |  |  |     |     |                 |  |  |  |     |     |                                |  |  |  |     |     |                 |  |  |  |     |     |                                    |  |  |  |     |     |                             |  |  |  |     |     |             |  |  |  |     |     |            |  |  |  |     |     |            |  |  |  |     |     |                                      |  |  |  |     |     |                            |  |  |  |     |     |           |  |  |  |     |     |                     |  |  |  |     |     |             |  |  |  |     |     |                                 |  |  |  |     |     |                  |  |  |  |     |     |                             |  |  |  |     |     |       |  |  |  |     |      |                             |  |  |  |      |      |                             |  |  |  |      |      |                                     |  |  |  |      |      |                            |  |  |
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| <p><b>2. NATURE OF WORK</b> <u>63-10553</u></p> <p><input checked="" type="checkbox"/> New well <input type="checkbox"/> Deepened <input type="checkbox"/> Replacement</p> <p><input type="checkbox"/> Abandoned (describe abandonment procedures such as materials, plug depths, etc. in lithologic log)</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <p><b>8. WELL TEST DATA</b></p> <p><input type="checkbox"/> Pump <input type="checkbox"/> Bailer <input type="checkbox"/> Air <input type="checkbox"/> Other _____</p> <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>Discharge G.P.M.</th> <th>Pumping Level</th> <th>Hours Pumped</th> </tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </table>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       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| <p><b>3. PROPOSED USE</b></p> <p><input type="checkbox"/> Domestic <input type="checkbox"/> Irrigation <input type="checkbox"/> Test <input type="checkbox"/> Municipal</p> <p><input type="checkbox"/> Industrial <input type="checkbox"/> Stock <input type="checkbox"/> Waste Disposal or Injection</p> <p><input checked="" type="checkbox"/> Other <u>Geo-Thermal</u> (specify type)</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <p><b>9. LITHOLOGIC LOG</b></p> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2">Bore<br/>Diam.</th> <th colspan="2">Depth</th> <th rowspan="2">Material</th> <th colspan="2">Water</th> </tr> <tr> <th>From</th> <th>To</th> <th>Yes</th> <th>No</th> </tr> </thead> <tbody> <tr><td> </td><td>0</td><td>150</td><td>Interbedded Sand &amp; Gravel</td><td> </td><td> </td></tr> <tr><td> </td><td>150</td><td>165</td><td>Sandstone</td><td> </td><td> </td></tr> <tr><td> </td><td>165</td><td>180</td><td>Shale</td><td> </td><td> </td></tr> <tr><td> </td><td>180</td><td>205</td><td>Clay w/Silty Interbeds</td><td> </td><td> </td></tr> <tr><td> </td><td>205</td><td>218</td><td>Blue Clay w/Tan Silty Interbeds</td><td> </td><td> </td></tr> <tr><td> </td><td>218</td><td>230</td><td>Blue Clay</td><td> </td><td> </td></tr> <tr><td> </td><td>230</td><td>250</td><td>Blue Clay w/Sandstone Interbeds</td><td> </td><td> </td></tr> <tr><td> </td><td>250</td><td>280</td><td>Light Grey To Blue Clay w/Shale</td><td> </td><td> </td></tr> <tr><td> </td><td>280</td><td>302</td><td>Blue-Green Clay</td><td> </td><td> </td></tr> <tr><td> </td><td>302</td><td>345</td><td>Green To Grey Clay w/Sandstone</td><td> </td><td> </td></tr> <tr><td> </td><td>345</td><td>415</td><td>Blue-Green Clay</td><td> </td><td> </td></tr> <tr><td> </td><td>415</td><td>480</td><td>Sandstone Upper Geothermal Aquifer</td><td> </td><td> </td></tr> <tr><td> </td><td>480</td><td>570</td><td>Shale w/Sandstone Interbeds</td><td> </td><td> </td></tr> <tr><td> </td><td>570</td><td>580</td><td>Sandy Shale</td><td> </td><td> </td></tr> <tr><td> </td><td>580</td><td>600</td><td>Hard Shale</td><td> </td><td> </td></tr> <tr><td> </td><td>600</td><td>630</td><td>Blue Shale</td><td> </td><td> </td></tr> <tr><td> </td><td>630</td><td>680</td><td>Brown To Green Mudstone w/Silty Sand</td><td> </td><td> </td></tr> <tr><td> </td><td>680</td><td>693</td><td>Brown Mudstone &amp; Siltstone</td><td> </td><td> </td></tr> <tr><td> </td><td>693</td><td>700</td><td>Fine Sand</td><td> </td><td> </td></tr> <tr><td> </td><td>700</td><td>715</td><td>Green &amp; Black Shale</td><td> </td><td> </td></tr> <tr><td> </td><td>715</td><td>770</td><td>Sandy Shale</td><td> </td><td> </td></tr> <tr><td> </td><td>770</td><td>845</td><td>Sandstone Minor Shale Interbeds</td><td> </td><td> </td></tr> <tr><td> </td><td>845</td><td>855</td><td>Hard Black Shale</td><td> </td><td> </td></tr> <tr><td> </td><td>855</td><td>950</td><td>Sandstone w/Silty Interbeds</td><td> </td><td> </td></tr> <tr><td> </td><td>950</td><td>970</td><td>Shale</td><td> </td><td> </td></tr> <tr><td> </td><td>970</td><td>1015</td><td>Shale w/Sandstone Interbeds</td><td> </td><td> </td></tr> <tr><td> </td><td>1015</td><td>1090</td><td>Sandstone w/Shale Interbeds</td><td> </td><td> </td></tr> <tr><td> </td><td>1090</td><td>1140</td><td>Sandstone w/Shale Middle Geothermal</td><td> </td><td> </td></tr> <tr><td> </td><td>1140</td><td>1200</td><td>Sandstone w/Clay Interbeds</td><td> </td><td> </td></tr> </tbody> </table> | Bore<br>Diam.    | Depth                                |              | Material         | Water           |               | From           | To               | Yes                              | No              |                 | 0                    | 150             | Interbedded Sand & Gravel |                  |                 |                 | 150           | 165           | Sandstone |      |    |                         | 165              | 180              | Shale                 |               |               |                       | 180           | 205           | Clay w/Silty Interbeds                                                                                                                                                                                                                                                                                                                                                                             |  |  |  | 205 | 218 | Blue Clay w/Tan Silty Interbeds |  |  |  | 218 | 230 | Blue Clay |  |  |  | 230 | 250 | Blue Clay w/Sandstone Interbeds |  |  |  | 250 | 280 | Light Grey To Blue Clay w/Shale |  |  |  | 280 | 302 | Blue-Green Clay |  |  |  | 302 | 345 | Green To Grey Clay w/Sandstone |  |  |  | 345 | 415 | Blue-Green Clay |  |  |  | 415 | 480 | Sandstone Upper Geothermal Aquifer |  |  |  | 480 | 570 | Shale w/Sandstone Interbeds |  |  |  | 570 | 580 | Sandy Shale |  |  |  | 580 | 600 | Hard Shale |  |  |  | 600 | 630 | Blue Shale |  |  |  | 630 | 680 | Brown To Green Mudstone w/Silty Sand |  |  |  | 680 | 693 | Brown Mudstone & Siltstone |  |  |  | 693 | 700 | Fine Sand |  |  |  | 700 | 715 | Green & Black Shale |  |  |  | 715 | 770 | Sandy Shale |  |  |  | 770 | 845 | Sandstone Minor Shale Interbeds |  |  |  | 845 | 855 | Hard Black Shale |  |  |  | 855 | 950 | Sandstone w/Silty Interbeds |  |  |  | 950 | 970 | Shale |  |  |  | 970 | 1015 | Shale w/Sandstone Interbeds |  |  |  | 1015 | 1090 | Sandstone w/Shale Interbeds |  |  |  | 1090 | 1140 | Sandstone w/Shale Middle Geothermal |  |  |  | 1140 | 1200 | Sandstone w/Clay Interbeds |  |  |
| Bore<br>Diam.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          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                             | 205              | Clay w/Silty Interbeds               |              |                  |                 |               |                |                  |                                  |                 |                 |                      |                 |                           |                  |                 |                 |               |               |           |      |    |                         |                  |                  |                       |               |               |                       |               |               |                                                                                                                                                                                                                                                                                                                                                                                              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                             | 218              | Blue Clay w/Tan Silty Interbeds      |              |                  |                 |               |                |                  |                                  |                 |                 |                      |                 |                           |                  |                 |                 |               |               |           |      |    |                         |                  |                  |                       |               |               |                       |               |               |                                                                                                                                                                                                                                                                                                                                                                                              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                             | 250              | Blue Clay w/Sandstone Interbeds      |              |                  |                 |               |                |                  |                                  |                 |                 |                      |                 |                           |                  |                 |                 |               |               |           |      |    |                         |                  |                  |                       |               |               |                       |               |               |                                                                                                                                                                                                                                                                                                                                                                                              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                             | 280              | Light Grey To Blue Clay w/Shale      |              |                  |                 |               |                |                  |                                  |                 |                 |                      |                 |                           |                  |                 |                 |               |               |           |      |    |                         |                  |                  |                       |               |               |                       |               |               |                                                                                                                                                                                                                                                                                                                                                                                              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                             | 302              | Blue-Green Clay                      |              |                  |                 |               |                |                  |                                  |                 |                 |                      |                 |                           |                  |                 |                 |               |               |           |      |    |                         |                  |                  |                       |               |               |                       |               |               |                                                                                                                                                                                                                                                                                                                                                                                              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                             | 345              | Green To Grey Clay w/Sandstone       |              |                  |                 |               |                |                  |                                  |                 |                 |                      |                 |                           |                  |                 |                 |               |               |           |      |    |                         |                  |                  |                       |               |               |                       |               |               |                                                                                                                                                                                                                                                                                                                                                                                              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                             | 480              | Sandstone Upper Geothermal Aquifer   |              |                  |                 |               |                |                  |                                  |                 |                 |                      |                 |                           |                  |                 |                 |               |               |           |      |    |                         |                  |                  |                       |               |               |                       |               |               |                                                                                                                                                                                                                                                                                                                                                                                              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                             | 570              | Shale w/Sandstone Interbeds          |              |                  |                 |               |                |                  |                                  |                 |                 |                      |                 |                           |                  |                 |                 |               |               |           |      |    |                         |                  |                  |                       |               |               |                       |               |               |                                                                                                                                                                                                                                                                                                                                                                                              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                             | 680              | Brown To Green Mudstone w/Silty Sand |              |                  |                 |               |                |                  |                                  |                 |                 |                      |                 |                           |                  |                 |                 |               |               |           |      |    |                         |                  |                  |                       |               |               |                       |               |               |                                                                                                                                                                                                                                                                                                                                                                                              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                             | 693              | Brown Mudstone & Siltstone           |              |                  |                 |               |                |                  |                                  |                 |                 |                      |                 |                           |                  |                 |                 |               |               |           |      |    |                         |                  |                  |                       |               |               |                       |               |               |                                                                                                                                                                                                                                                                                                                                                                                              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                             | 700              | Fine Sand                            |              |                  |                 |               |                |                  |                                  |                 |                 |                      |                 |                           |                  |                 |                 |               |               |           |      |    |                         |                  |                  |                       |               |               |                       |               |               |                                                                                                                                                                                                                                                                                                                                                                                              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                             | 715              | Green & Black Shale                  |              |                  |                 |               |                |                  |                                  |                 |                 |                      |                 |                           |                  |                 |                 |               |               |           |      |    |                         |                  |                  |                       |               |               |                       |               |               |                                                                                                                                                                                                                                                                                                                                                                                              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                             | 770              | Sandy Shale                          |              |                  |                 |               |                |                  |                                  |                 |                 |                      |                 |                           |                  |                 |                 |               |               |           |      |    |                         |                  |                  |                       |               |               |                       |               |               |                                                                                                                                                                                                                                                                                                                                                                                              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                             | 845              | Sandstone Minor Shale Interbeds      |              |                  |                 |               |                |                  |                                  |                 |                 |                      |                 |                           |                  |                 |                 |               |               |           |      |    |                         |                  |                  |                       |               |               |                       |               |               |                                                                                                                                                                                                                                                                                                                                                                                              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                             | 855              | Hard Black Shale                     |              |                  |                 |               |                |                  |                                  |                 |                 |                      |                 |                           |                  |                 |                 |               |               |           |      |    |                         |                  |                  |                       |               |               |                       |               |               |                                                                                                                                                                                                                                                                                                                                                                                              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                             | 950              | Sandstone w/Silty Interbeds          |              |                  |                 |               |                |                  |                                  |                 |                 |                      |                 |                           |                  |                 |                 |               |               |           |      |    |                         |                  |                  |                       |               |               |                       |               |               |                                                                                                                                                                                                                                                                                                                                                                                              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                             | 970              | Shale                                |              |                  |                 |               |                |                  |                                  |                 |                 |                      |                 |                           |                  |                 |                 |               |               |           |      |    |                         |                  |                  |                       |               |               |                       |               |               |                                                                                                                                                                                                                                                                                                                                                                                              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                             | 1015             | Shale w/Sandstone Interbeds          |              |                  |                 |               |                |                  |                                  |                 |                 |                      |                 |                           |                  |                 |                 |               |               |           |      |    |                         |                  |                  |                       |               |               |                       |               |               |                                                                                                                                                                                                                                                                                                                                                                                              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                             | 1090             | Sandstone w/Shale Interbeds          |              |                  |                 |               |                |                  |                                  |                 |                 |                      |                 |                           |                  |                 |                 |               |               |           |      |    |                         |                  |                  |                       |               |               |                       |               |               |                                                                                                                                                                                                                                                                                                                                                                                              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                             | 1140             | Sandstone w/Shale Middle Geothermal  |              |                  |                 |               |                |                  |                                  |                 |                 |                      |                 |                           |                  |                 |                 |               |               |           |      |    |                         |                  |                  |                       |               |               |                       |               |               |                                                                                                                                                                                                                                                                                                                                                                                              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                             | 1200             | Sandstone w/Clay Interbeds           |              |                  |                 |               |                |                  |                                  |                 |                 |                      |                 |                           |                  |                 |                 |               |               |           |      |    |                         |                  |                  |                       |               |               |                       |               |               |                                                                                                                                                                                                                                                                                                                                                                                              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| <p><b>4. METHOD DRILLED</b></p> <p><input checked="" type="checkbox"/> Rotary <input type="checkbox"/> Air <input type="checkbox"/> Hydraulic <input type="checkbox"/> Reverse rotary</p> <p><input type="checkbox"/> Cable <input type="checkbox"/> Dug <input type="checkbox"/> Other _____</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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<u>1988</u></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          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 |      |      |                             |  |  |  |      |      |                                     |  |  |  |      |      |                            |  |  |
| <p><b>5. WELL CONSTRUCTION</b></p> <p>Casing schedule: <input checked="" type="checkbox"/> Steel <input type="checkbox"/> Concrete <input type="checkbox"/> Other _____</p> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Thickness</th> <th>Diameter</th> <th>From</th> <th>To</th> </tr> </thead> <tbody> <tr> <td><u>22</u> inches</td> <td><u> </u> inches</td> <td><u>0</u> feet</td> <td><u>30</u> feet</td> </tr> <tr> <td><u>16</u> inches</td> <td><u> </u> inches</td> <td><u>+ 0</u> feet</td> <td><u>548</u> feet</td> </tr> <tr> <td><u>12 3/4</u> inches</td> <td><u> </u> inches</td> <td><u>+ 1</u> feet</td> <td><u>1083</u> feet</td> </tr> <tr> <td><u> </u> inches</td> <td><u> </u> inches</td> <td><u> </u> feet</td> <td><u> </u> feet</td> </tr> </tbody> </table> <p>Was casing drive shoe used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>Was a packer or seal used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Perforated? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>How perforated? <input type="checkbox"/> Factory <input type="checkbox"/> Knife <input checked="" type="checkbox"/> Shot</p> <p>Size of perforation <u>1/2</u> inches by <u>1/2</u> inches</p> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Number</th> <th>From</th> <th>To</th> </tr> </thead> <tbody> <tr> <td><u>400</u> perforations</td> <td><u>1083</u> feet</td> <td><u>1043</u> feet</td> </tr> <tr> <td><u> </u> perforations</td> <td><u> </u> feet</td> <td><u> </u> feet</td> </tr> <tr> <td><u> </u> perforations</td> <td><u> </u> feet</td> <td><u> </u> feet</td> </tr> </tbody> </table> <p>Well screen installed? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Manufacturer's name <u>Johnson</u></p> <p>Type <u>E/S Stainless</u> Model No. _____</p> <p>Diameter <u>10 1/2</u> Slot size <u>15</u> Set from <u>1095</u> feet to <u>1025</u> feet</p> <p>Diameter <u> </u> Slot size <u> </u> Set from <u> </u> feet to <u> </u> feet</p> <p>Gravel packed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Size of gravel _____</p> <p>Placed from <u> </u> feet to <u> </u> feet</p> <p>Surface seal depth <u>548</u> Material used in seal: <input checked="" type="checkbox"/> Cement grout</p> <p><input type="checkbox"/> Bentonite <input type="checkbox"/> Puddling clay <input type="checkbox"/> _____</p> <p>Sealing procedure used: <input type="checkbox"/> Slurry pit <input type="checkbox"/> Temp. surface casing</p> <p><input checked="" type="checkbox"/> Overbore to seal depth</p> <p>Method of joining casing: <input type="checkbox"/> Threaded <input checked="" type="checkbox"/> Welded <input type="checkbox"/> Solvent</p> <p><input checked="" type="checkbox"/> Cemented between strata</p> <p>Describe access port <u>2" Opening 6" from top of casing</u></p> | Thickness                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Diameter         | From                                 | To           | <u>22</u> inches | <u> </u> inches | <u>0</u> feet | <u>30</u> feet | <u>16</u> inches | <u> </u> inches                  | <u>+ 0</u> feet | <u>548</u> feet | <u>12 3/4</u> inches | <u> </u> inches | <u>+ 1</u> feet           | <u>1083</u> feet | <u> </u> inches | <u> </u> inches | <u> </u> feet | <u> </u> feet | Number    | From | To | <u>400</u> perforations | <u>1083</u> feet | <u>1043</u> feet | <u> </u> perforations | <u> </u> feet | <u> </u> feet | <u> </u> perforations | <u> </u> feet | <u> </u> feet | <p><b>11. DRILLERS CERTIFICATION</b></p> <p>I/We certify that all minimum well construction standards were complied with at the time the rig was removed.</p> <p>Firm Name <u>Thomas Drilling, Inc</u> Firm No. <u>390</u></p> <p>Address <u>Rt #1 Afton, WY 83110</u> Date _____</p> <p>Signed by (Firm Official) <u>Sandra Thomas</u></p> <p>and _____</p> <p>(Operator) <u>Wayne Thomas</u></p> |  |  |  |     |     |                                 |  |  |  |     |     |           |  |  |  |     |     |                                 |  |  |  |     |     |                                 |  |  |  |     |     |                 |  |  |  |     |     |                                |  |  |  |     |     |                 |  |  |  |     |     |                                    |  |  |  |     |     |                             |  |  |  |     |     |             |  |  |  |     |     |            |  |  |  |     |     |            |  |  |  |     |     |                                      |  |  |  |     |     |                            |  |  |  |     |     |           |  |  |  |     |     |                     |  |  |  |     |     |             |  |  |  |     |     |                                 |  |  |  |     |     |                  |  |  |  |     |     |                             |  |  |  |     |     |       |  |  |  |     |      |                             |  |  |  |      |      |                             |  |  |  |      |      |                                     |  |  |  |      |      |                            |  |  |
| Thickness                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              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 |  |      |      |                             |  |  |  |      |      |                                     |  |  |  |      |      |                            |  |  |
| <u>22</u> inches                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       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                             | <u>0</u> feet    | <u>30</u> feet                       |              |                  |                 |               |                |                  |                                  |                 |                 |                      |                 |                           |                  |                 |                 |               |               |           |      |    |                         |                  |                  |                       |               |               |                       |               |               |                                                                                                                                                                                                                                                                                                                                                                                              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| <u>16</u> inches                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       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                             | <u>+ 0</u> feet  | <u>548</u> feet                      |              |                  |                 |               |                |                  |                                  |                 |                 |                      |                 |                           |                  |                 |                 |               |               |           |      |    |                         |                  |                  |                       |               |               |                       |               |               |                                                                                                                                                                                                                                                                                                                                                                                              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| <u>12 3/4</u> inches                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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                             | <u>+ 1</u> feet  | <u>1083</u> feet                     |              |                  |                 |               |                |                  |                                  |                 |                 |                      |                 |                           |                  |                 |                 |               |               |           |      |    |                         |                  |                  |                       |               |               |                       |               |               |                                                                                                                                                                                                                                                                                                                                                                                              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 |  |      |      |                             |  |  |  |      |      |                                     |  |  |  |      |      |                            |  |  |
| <u> </u> inches                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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      |  |  |  |     |     |                                 |  |  |  |     |     |           |  |  |  |     |     |                                 |  |  |  |     |     |                                 |  |  |  |     |     |                 |  |  |  |     |     |                                |  |  |  |     |     |                 |  |  |  |     |     |                                    |  |  |  |     |     |                             |  |  |  |     |     |             |  |  |  |     |     |            |  |  |  |     |     |            |  |  |  |     |     |                                      |  |  |  |     |     |                            |  |  |  |     |     |           |  |  |  |     |     |                     |  |  |  |     |     |             |  |  |  |     |     |                                 |  |  |  |     |     |                  |  |  |  |     |     |                             |  |  |  |     |     |       |  |  |  |     |      |                             |  | 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| Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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 |  |      |      |                             |  |  |  |      |      |                                     |  |  |  |      |      |                            |  |  |
| <u>400</u> perforations                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                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                             | <u>1043</u> feet |                                      |              |                  |                 |               |                |                  |                                  |                 |                 |                      |                 |                           |                  |                 |                 |               |               |           |      |    |                         |                  |                  |                       |               |               |                       |               |               |                                                                                                                                                                                                                                                                                                                                                                                              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| <u> </u> perforations                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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 |  |      |      |                             |  |  |  |      |      |                                     |  |  |  |      |      |                            |  |  |
| <u> </u> perforations                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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 |  |      |      |                             |  |  |  |      |      |                                     |  |  |  |      |      |                            |  |  |
| <p><b>6. LOCATION OF WELL</b></p> <p>Sketch map location must agree with written location.</p> <p>N</p> <table border="1" style="width:100%; border-collapse: collapse;"> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </table> <p>Subdivision Name _____</p> <p>Lot No. _____ Block No. _____</p> <p>S</p> <p>County <u>Canyon County, ID (2 Miles West Of Caldwell)</u></p> <p><u>N2</u> <u>1/4</u> NE <u>1/4</u> Sec. <u>19</u>, T. <u>4N</u>, R. <u>3W</u> E/W.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                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                  |                  |                                      |              |                  |                 |               |                |                  | <p><b>12. NOTES</b></p> <p> </p> |                 |                 |                      |                 |                           |                  |                 |                 |               |               |           |      |    |                         |                  |                  |                       |               |               |                       |               |               |                                                                                                                                                                                                                                                                                                                                                                                                    |  |  |  |     |     |                                 |  |  |  |     |     |           |  |  |  |     |     |                                 |  |  |  |     |     |                                 |  |  |  |     |     |                 |  |  |  |     |     |                                |  |  |  |     |     |                 |  |  |  |     |     |                                    |  |  |  |     |     |                             |  |  |  |     |     |             |  |  |  |     |     |            |  |  |  |     |     |            |  |  |  |     |     |                                      |  |  |  |     |     |                            |  |  |  |     |     |           |  |  |  |     |     |                     |  |  |  |     |     |             |  |  |  |     |     |                                 |  |  |  |     |     |                  |  |  |  |     |     |                             |  |  |  |     |     |       |  |  |  |     |      |                             |  |  |  |      |      |                             |  |  |  |      |      |                                     |  |  |  |      |      |                            |  |  |
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 |  |      |      |                             |  |  |  |      |      |                                     |  |  |  |      |      |                            |  |  |

FEB 23 1996



J.R. SIMPLOT COMPANY ONE CAPITAL CENTER 999 MAIN STREET SUITE 1300  
P.O. BOX 27 BOISE, IDAHO 83707-0027 (208) 336-2110 FAX (208) 389-7515

CORPORATE HEADQUARTERS

RECEIVED  
FEB 01 1996

February 1, 1996

Department of Water Resources

**HAND DELIVERY**

Julie L. Yarbrough  
Senior Secretary  
State of Idaho  
Department of Water Resources  
1301 North Orchard Street  
Boise, Idaho 83720-9000

**Re: IDWR Permit No. 63-10553.**

Dear Ms. Yarbrough:

Enclosed is the signed statement of Proof of Beneficial Use prepared on a form provided by the IDWR. Also enclosed is a \$200.00 check to cover your licensing fee.

Please return a copy of this transmittal cover letter with your date stamp indicated receipt to the person making this delivery.

Sincerely,

Vic Conrad  
Simplot Land and Development

Enclosures

FEB 23 1996

November 30, 1995

J.R. SIMPLOT CO.  
P.O. BOX 27  
BOISE ID 837070000

PROOF DUE NOTICE

RE: PERMIT NO. 63-10553

Dear Permit Holder:

One of the conditions of approval of the above referenced water permit was that proof of the extent of your beneficial use must be submitted to this office on or before February 1, 1996. (See last page of your approved permit or your last approved extension request.) Enclosed is a form which when accompanied by the license examination fee or a complete field examination report prepared by a certified water right examiner may be used to submit the required proof.

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

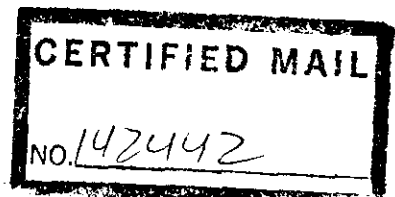
Either an acceptable proof of beneficial use submittal or an acceptable request for an extension of time must be received by this department on or before the above described proof due date. If neither is received, the department will send you a lapse notice. Within sixty (60) days of the mailing of the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

SINCERELY,

JULIE L. YARBROUGH  
Senior Secretary

Enclosures

FEB 23 1996



STATE OF IDAHO  
DEPARTMENT OF WATER RESOURCES  
WELL DRILLER'S REPORT

RECEIVED  
USE TYPEWRITER OR  
BALLPOINT PEN

State 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. AUG 15 1988

1. WELL OWNER

Name J.R. Simplot

Address One Capital Center  
P.O. Box 27 Boise, ID 83707

Owner's Permit No. 63-87-297

2. NATURE OF WORK

☒ New well    ☐ Deepened    ☐ Replacement  
☐ Abandoned (describe abandonment procedures such as materials, plug depths, etc. in lithologic log)

3. PROPOSED USE

☐ Domestic    ☐ Irrigation    ☐ Test    ☐ Municipal  
☐ Industrial    ☐ Stock    ☐ Waste Disposal or Injection  
☒ Other Geo-Thermal (specify type)

4. METHOD DRILLED

☒ Rotary    ☐ Air    ☐ Hydraulic    ☐ Reverse rotary  
☐ Cable    ☐ Dug    ☐ Other

5. WELL CONSTRUCTION

Casing schedule: ☒ Steel    ☐ Concrete    ☐ Other

| Thickness            | Diameter      | From            | To               |
|----------------------|---------------|-----------------|------------------|
| <u>22</u> inches     | <u>inches</u> | <u>0</u> feet   | <u>30</u> feet   |
| <u>16</u> inches     | <u>inches</u> | <u>+ 0</u> feet | <u>548</u> feet  |
| <u>12 3/4</u> inches | <u>inches</u> | <u>+ 1</u> feet | <u>1083</u> feet |
| <u>inches</u>        | <u>inches</u> | <u>feet</u>     | <u>feet</u>      |

Was casing drive shoe used?    ☐ Yes    ☒ No  
Was a packer or seal used?    ☒ Yes    ☐ No  
Perforated?    ☒ Yes    ☐ No  
How perforated?    ☐ Factory    ☐ Knife    ☒ ~~Shot~~ Shot  
Size of perforation 1/2 inches by 1/2 inches

| Number                  | From             | To               |
|-------------------------|------------------|------------------|
| <u>400</u> perforations | <u>1083</u> feet | <u>1043</u> feet |
| <u>perforations</u>     | <u>feet</u>      | <u>feet</u>      |
| <u>perforations</u>     | <u>feet</u>      | <u>feet</u>      |

Well screen installed?    ☒ Yes    ☐ No  
Manufacturer's name Johnson  
Type E/S Stainless    Model No.   
Diameter 10 3/4 Slot size 15 Set from 1095 feet to 1025 feet  
Diameter Slot size Set from feet to feet  
Gravel packed?    ☐ Yes    ☒ No    ☐ Size of gravel   
Placed from feet to feet  
Surface seal depth 548 Material used in seal:    ☒ Cement grout  
☐ Bentonite    ☐ Puddling clay    ☐  
Sealing procedure used:    ☐ Slurry pit    ☐ Temp. surface casing  
☒ Overbore to seal depth  
Method of joining casing:    ☐ Threaded    ☒ Welded    ☐ Solvent Weld  
☒ Cemented between strata  
Describe access port 2" Opening 6" from top of casing

7. WATER LEVEL

Department of Water Resources

Static water level  feet below land surface.  
Flowing?    ☒ Yes    ☐ No    G.P.M. flow 500  
Artesian closed-in pressure 32 p.s.i.  
Controlled by:    ☒ Valve    ☒ Cap    ☐ Plug  
Temperature 102 °F.    Quality Good  
Describe artesian or temperature zones below.

8. WELL TEST DATA

☐ Pump    ☐ Bailer    ☐ Air    ☐ Other

| Discharge G.P.M. | Pumping Level | Hours Pumped |
|------------------|---------------|--------------|
|                  |               |              |
|                  |               |              |
|                  |               |              |

9. LITHOLOGIC LOG

| Bore Diam. | Depth |      | Material                             | Water |    |
|------------|-------|------|--------------------------------------|-------|----|
|            | From  | To   |                                      | Yes   | No |
|            | 0     | 150  | Interbedded Sand & Gravel            |       |    |
|            | 150   | 165  | Sandstone                            |       |    |
|            | 165   | 180  | Shale                                |       |    |
|            | 180   | 205  | Clay w/Silty Interbeds               |       |    |
|            | 205   | 218  | Blue Clay w/Tan Silty Interbeds      |       |    |
|            | 218   | 230  | Blue Clay                            |       |    |
|            | 230   | 250  | Blue Clay w/Sandstone Interbeds      |       |    |
|            | 250   | 280  | Light Grey To Blue Clay w/Shale      |       |    |
|            | 280   | 302  | Blue-Green Clay                      |       |    |
|            | 302   | 345  | Green To Grey Clay w/Sandstone       |       |    |
|            | 345   | 415  | Blue-Green Clay                      |       |    |
|            | 415   | 480  | Sandstone Upper Geothermal Aquifer   |       |    |
|            | 480   | 570  | Shale w/Sandstone Interbeds          |       |    |
|            | 570   | 580  | Sandy Shale                          |       |    |
|            | 580   | 600  | Hard Shale                           |       |    |
|            | 600   | 630  | Blue Shale                           |       |    |
|            | 630   | 680  | Brown To Green Mudstone w/Silty Sand |       |    |
|            | 680   | 693  | Brown Mudstone & Siltstone           |       |    |
|            | 693   | 700  | Fine Sand                            |       |    |
|            | 700   | 715  | Green & Black Shale                  |       |    |
|            | 715   | 770  | Sandy Shale                          |       |    |
|            | 770   | 845  | Sandstone Minor Shale Interbeds      |       |    |
|            | 845   | 855  | Hard Black Shale                     |       |    |
|            | 855   | 950  | Sandstone w/Silty Interbeds          |       |    |
|            | 950   | 970  | Shale                                |       |    |
|            | 970   | 1015 | Shale w/Sandstone Interbeds          |       |    |
|            | 1015  | 1090 | Sandstone w/Shale Interbeds          |       |    |
|            | 1090  | 1140 | Sandstone w/Shale Middle Geothermal  |       |    |
|            | 1140  | 1200 | Sandstone w/Clay Interbeds           |       |    |

10.

Work started  finished 1988

6. LOCATION OF WELL

Sketch map location must agree with written location.

N

W

E

S

Subdivision Name

Lot No.  Block No.

County Canyon County, ID (2 Miles West Of Caldwell)

NE 1/4 NE 1/4 Sec. 19, T. 4N N/S, R. 3W E/W.

11. DRILLERS CERTIFICATION

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

Firm Name Thomas Drilling, Inc Firm No. 390

Address Rt #1 Afton, WY 83110 Date

Signed by (Firm Official) Sandra Thomas and Vaughn Thomas (Operator)

FEB 23 1986

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



**State of Idaho**  
**DEPARTMENT OF WATER RESOURCES**

1301 North Orchard Street, Statehouse Mail, Boise, Idaho 83720-9000  
Phone: (208) 327-7900 FAX: (208) 327-7866

CECIL D. ANDRUS  
GOVERNOR

R. KEITH HIGGINSON  
DIRECTOR

February 2, 1993

Vic Conrad  
J.R. Simplot Company  
PO Box 27  
Boise, ID 83707

Re: Permit No. 63-10553

Dear Permit Holder:

Enclosed is a copy of the approved request for extension of time. The time within which to submit proof of beneficial use is extended to February 1, 1996. Please note that the department has granted this extension based on due diligence. It is important that you work diligently toward the completion of this project during the construction period allowed. The department may not be able to grant additional requests.

If you have any questions or if I can be of any further assistance, please feel free to contact this office.

Sincerely,

Karen L. Gustafson  
Secretary/Records Manager

Enclosure

C: IDWR-Regional Office

**RECEIVED**

FEB 02 1993

**ANALYSIS SHEET  
FOR  
EXTENSION OF TIME**

Permit No. 63-10553 Reviewed by Klg Date 2/1/93

**BASIC INFORMATION**

2/1/93 Date stamp received  
yes Extension received timely  
yes Fee received and receipted  
yes Name and signature same as permit  
no Address Change

**BASIS FOR EXTENSION REQUEST**

yes Has adequate work been completed to demonstrate due diligence?  
Has the permit been involved in litigation?  
Is supporting documentation needed to complete the file? Requested?  
Is delay by a government agency?  
Is supporting documentation needed to complete the file? Requested?  
Is the project more than 25,000 acre feet for irrigation or 10,000 acre feet for a reservoir?

**ACTION TAKEN**

*Recommend approval Based on due diligence  
Extend to 2/1/96*

**PRIORITY CALCULATION**

|                         |           |   |       |
|-------------------------|-----------|---|-------|
| Date extension received | <u>WA</u> | = | _____ |
| Proof due date          | <u>/</u>  | = | _____ |
| Number of days late     | <u>/</u>  | = | _____ |
| Priority date           | <u>/</u>  | = | _____ |
| New Priority Date       | <u>/</u>  | = | _____ |

**DATA ENTRY**

New Address \_\_\_\_\_  
Change Proof Due Date 2/2/93 Klg  
Change Priority Date \_\_\_\_\_



J.R. SIMPLOT COMPANY ONE CAPITAL CENTER 999 MAIN STREET SUITE 1300  
P.O. BOX 27 BOISE, IDAHO 83707-0027 (208) 336-2110 FAX (208) 389-7515

CORPORATE HEADQUARTERS

RECEIVED

JAN 29 1993

Department of Water Resources

January 28, 1993

**Sent Certified Mail Return Receipt Requested**

Karen L. Gustafson  
State of Idaho  
Department of Water Resources  
1301 North Orchard Street  
Boise, ID 83720-9000

**Re: IDWR Permit No. 63-10553**

Dear Karen:

Enclosed is the completed Request for Extension of Time to provide additional time in which to submit proof of beneficial use for the above referenced Permit. Also enclosed is a \$15.00 check to cover your fee.

Please don't hesitate to call me at 389-7359 if you have any questions.

Sincerely,

Vic Conrad  
Associate, Simplot  
Land and Development

Encl. Completed Request  
J.R. Simplot Company Check No. 089179 for \$15.00

MIDWESTERN

FEB 02 1993

November 30, 1992

J.R. SIMPLOT CO.  
P.O. BOX 27  
BOISE ID 837070000

PROOF DUE NOTICE

RE: PERMIT NO. 63-10553

Dear Permit Holder:

One of the conditions of approval of the above referenced water permit was that proof of the extent of your beneficial use must be submitted to this office on or before February 1, 1993. (See last page of your approved permit or your last approved extension request.) Enclosed is a form which when accompanied by the license examination fee or a complete field examination report prepared by a certified water right examiner may be used to submit the required proof.

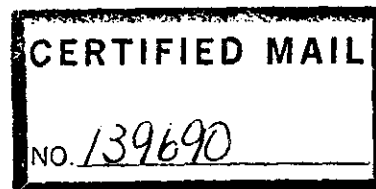
If you have not fully completed your project, and you or a previous owner of this permit have not received a prior extension of time, you may request an extension of time if the delay is for reasonable cause as provided in Section 42-204, Idaho Code. If you have been prevented from proceeding by a governmental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

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

SINCERELY,

Karen L. Gustafson  
Secretary/Records Manager

Enclosures



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9/89

Drilling Permit No. 63-90-2-006Water Right Permit No. 63-10553

Injection Permit No. \_\_\_\_\_

State of Idaho  
Department of Water Resources

## D R I L L I N G   P E R M I T

1. Applicant J. R. Simplot Company2. Mailing Address 20875 Wagner Rd., Caldwell, ID 83605Telephone 454-4610☒ Well Owner    ☐ Well Operator    ☐ Other, specify \_\_\_\_\_NW NE 1/4 NE 1/43. Proposed well location ~~1/4~~ 1/4 ~~1/4~~ 1/4, or Gov't lot No. \_\_\_\_\_,Sec. <sup>19</sup> 20, Twp. 4N, Rge. 3W, County Canyon,

Street Address of Well Site \_\_\_\_\_,

Lot, block and subdivision \_\_\_\_\_

4. Proposed use of well:

☐ Single family or stockwater use (less than 13,000 gallons per day)☐ Irrigation (more than 1/2 acre)☐ Monitoring - A well bore schematic and map is required for each well.  
No. of proposed wells: \_\_\_\_\_☐ Other (describe fully) Fish Propagation - Test Well Test well  
plugged - Permit transferred to GW III.

5. Well construction information:

A. ☒ New well    ☐ Deepen    ☐ Replace - See Condition 9.B. Proposed surface diameter 26 " Maximum depth 950

C. Anticipated bottom hole temperature:

- ☐
- 85°F or less (Cold water well)
- 
- ☒
- 85°F to 212°F (Low temp. geothermal well)
- 
- ☐
- 212°F or more (Geothermal well)

MICROFILMED

6. Construction Start Date 12/20/89 → 4-2-90 FEB 02 19937. Anticipated Well Driller Thomas Well Drilling → Materi Exploration  
NOTE: The actual well driller must be identified prior to drilling.8. Applicant's signature James R. Simplot Date 1-15-90 → 4/2/90Title Director → Associate, Simplot Land & Development  
(Owner, Firm Representative, Other)

This Permit is

**APPROVED**

Date

1-17-90

If approved, this permit authorizes the construction of a well subject to the following conditions. READ CAREFULLY!

GENERAL CONDITIONS:

1. The well must be constructed in compliance with the applicable statutes, specific conditions of approval shown on the water right permit, injection well permit, transfer or amendment and the rules and regulations of the Department for water appropriation, injection wells and well construction standards.
2. This drilling permit is valid for two (2) months from the above approval date for the start of construction and is valid for one (1) year from the approval date for completion of the well unless an extension has been granted.
3. This permit does not constitute the approval of the District Health Department or the Idaho Department of Health and Welfare which may be required before construction of this well.
4. The well shall be constructed by a driller currently licensed in the State of Idaho who must maintain a copy of the drilling permit at the drilling site.
5. Approval of this drilling permit does not authorize trespass on the land of another party.
6. This permit does not constitute other local, county, state or federal approvals which may be required for construction of a well.
7. This drilling permit does not represent a right to divert and use the water of the State of Idaho.
8. If a bottom hole temperature of 85°F or greater is encountered, well construction shall cease and the well driller and the well owner shall contact the Department immediately.
9. If this permit is for a replacement well, the well being replaced must be abandoned in accordance with Department Rules and Regulations.

SPECIFIC CONDITIONS:*Letwick Reese by.*

*Mark S. Shiffen*  
Signature of Authorized Department Representative

*Groundwater Protection Section*  
Title

Receipt No. CD14052 Received by It Fee 100.00 Date 1-17-90

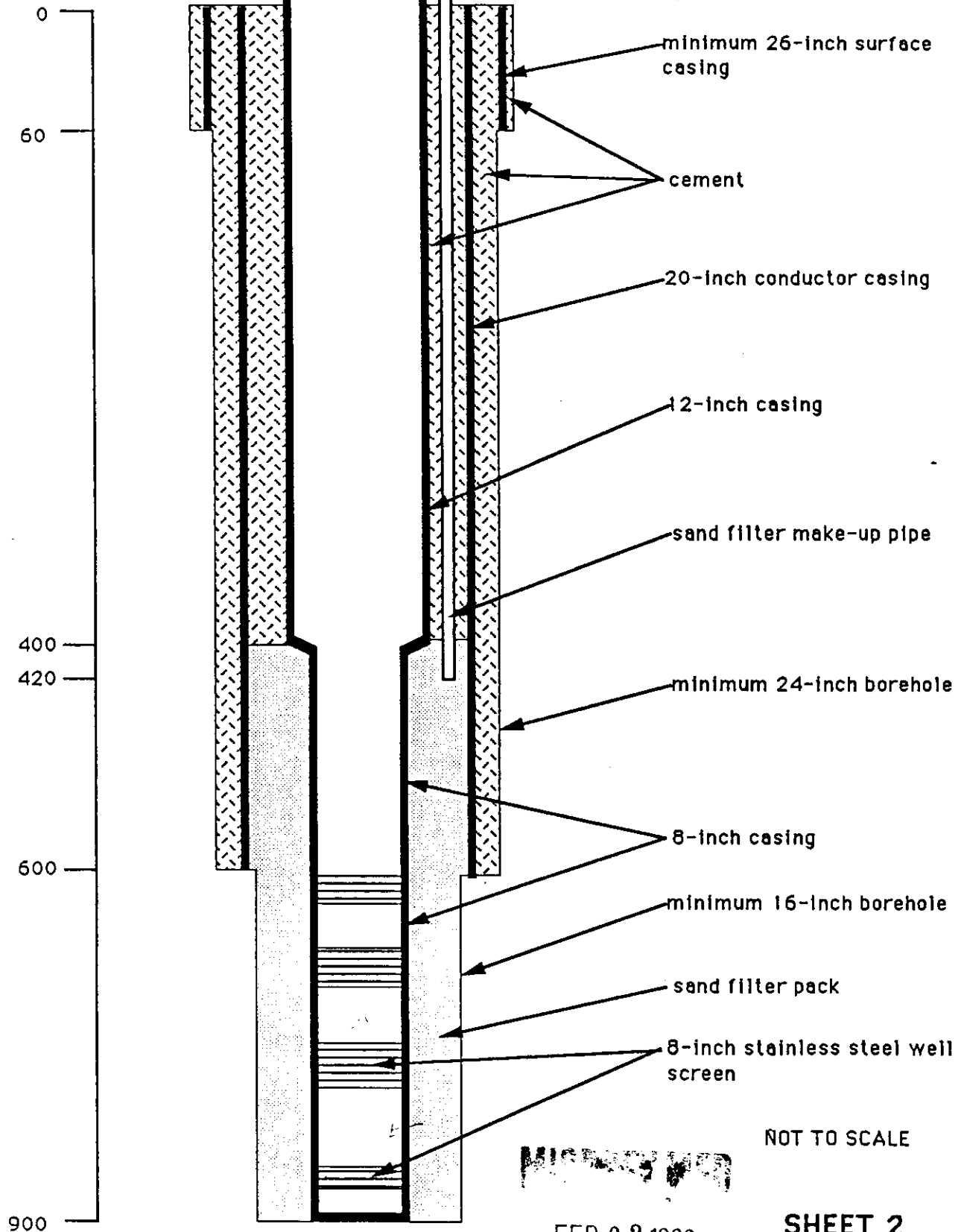
EXTENSION OF DRILLING PERMIT

Extension approved by \_\_\_\_\_ Approval Date \_\_\_\_\_

This extension is good for 60 days beyond the above extension approval date. FEB 02 1993

# PROPOSED WELL DESIGN SIMPLOT WELL NO. 3

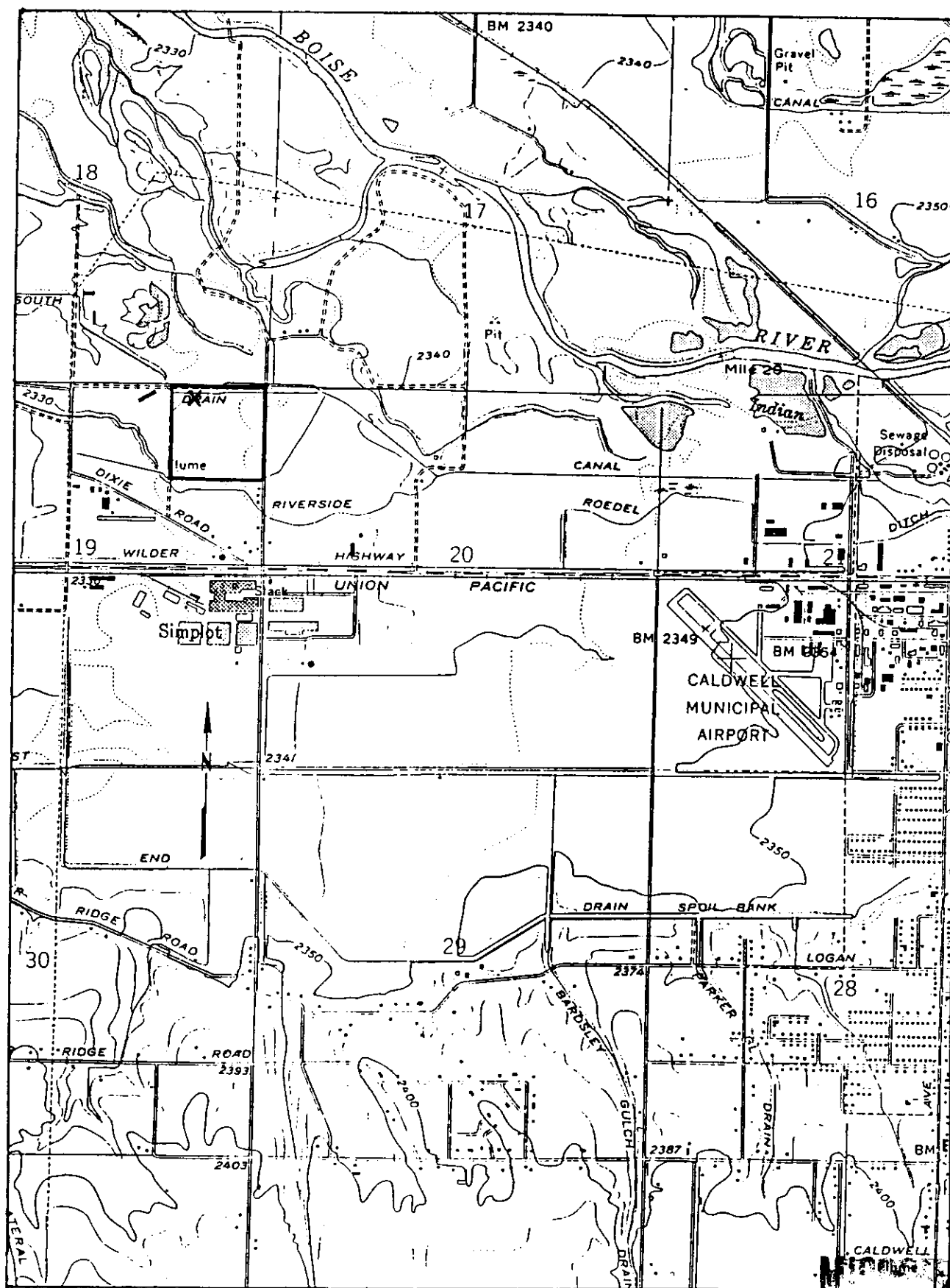
APPROXIMATE  
DEPTH  
(FEET)



NOT TO SCALE

FEB 02 1993

SHEET 2



# SITE LOCATION MAP

SHEET 1

FEB 02 1993



**State of Idaho**  
**DEPARTMENT OF WATER RESOURCES**

1301 North Orchard Street, Statehouse Mail, Boise, Idaho 83720 - (208) 327-7900

CECIL D. ANDRUS

GOVERNOR

R. KEITH HIGGINSON

DIRECTOR

July 11, 1989

Mr. Armond Beers, Chief Geologist  
Simplot Resources  
Nampa, ID 83647

Dear Mr. Beers:

RE: GWW #2, Modification Procedure Approval

As we have indicated to you in our conversations on July 5, 1989 and again on July 10, 1989, the Idaho Department of Water Resources would be able to approve your firms request to perforate and commingle four water bearing reservoirs, or potential reservoirs, between 1150 and 1885 feet. We have reviewed your proposed modification to the original drilling procedure and have determined that this request is authorized subject to the following conditions:

1) That information requested from Simplot Resources by the Department through Mr. John Beal in a letter dated September 12, 1988 to Mr. James Frost be submitted. This information includes any professional or service company reports describing daily activities installing, cementing, and testing of the existing strings of casing and liner. Also please send one copy of each of any electrical geophysical logs run on this well, i.e. SP, resistivity/conducivity, neutron, gamma ray, temperature or other. This information is needed to evaluate the resource, the well construction standards and equipment, and the current status and capacities of this well

2) As per our conversation, I indicated our concern of the chemical compatability of the lower reservoir fluids (1675-2268 feet) to the upper zones located at about 1150 feet. The Department needs evidence to substantiate that during periods when the well is shut in that the fluids moving from the higher pressured reservoirs into lower pressured reservoirs (probably from lower depths to shallower), are not contaminating the lower pressured reservoirs with incompatible or toxic substances. Mr. Beers suggested what appears as the most reasonable approach which is as follows:

a) The waters of the No. 1 Richardson, The GWW #1, and the waters leaking past the packer in the GWW #2 be chemically analyzed to establish a baseline for water quality.

**RECEIVED**

FEB 02 1993

July 11, 1989

b) That the fluids from the proposed perforated intervals referenced in the Modifications to Drilling Prospectus dated July 7, 1989 and submitted to us by Simplot Resources be commingled and the combined water be retested and chemically analyzed.

c) That certified test reports be submitted to us from the testing labs.

d) That we be notified in advance of any anticipated operations such as perforating, cementing, plugging, casing salvage, or other, so that personnel from this office may be present during such activities.

e) That one quart samples of the GW #2 waters (before and after perforating) be collected or that our department personnel be provided an opportunity to collect such samples.

3. Should chemical evidence suggest incompatibility of the lower reservoir(s) with the upper, then Simplot Resources shall promptly notify the Department of Water Resources and take the appropriate action to eliminate the further migration of contaminants between aquifers. Such corrective action may include cementing or setting plugs with subsequent retesting of produced water for contamination.

Sincerely,

*Lotwick I. Reese*

LOTWICK I. REESE, P.E., Manager  
Ground Water Protection Section

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FEB 02 1993



SIMPLOT RESOURCES 915 E. KARCHER ROAD  
NAMPA, IDAHO 83687 (208) 467-4886

J. R. SIMPLOT COMPANY

July 7, 1989

Mr. Lotwyck Reese, Director  
Groundwater Protection Section  
Idaho Department of Water Resources

Re: Modification to Drilling Prospectus  
~~Water Right Appropriation No. 63-88-Z-079~~ *Drilling Permit No.*  
Water Right Permit No. 63-10533

Dear Mr. Reese:

It is Simplot Resources' intention to modify the above identified well prospectus as approved by your office. The reason for the modification and the procedure for modification are attached to this letter. The need for this modification and the procedure to be used have been discussed with your Mr. Mark Slifka.

Simplot Resources personnel will be available Monday, July 9, 1989 to answer any questions you might have, or discuss any parts of the procedure with you.

Your approval for this is needed as soon as possible.

Sincerely,

SIMPLOT RESOURCES

  
Armond H. Beers  
Chief Geologist

AB/tdf  
188c89.ab

Enclosures

RECEIVED

JUL 9 2 1993

Modifications to Well Prospectus,  
Water Right Appropriation No. 63-88-Z-079  
Water Right Permit No. 63-10533

Reason for Modification

This well, Geothermal Water Well #2 (GWW #2), was designed to produce substantial low temperature geothermal water from a sand formation at a depth below 2,115 ft., this horizon was determined to be impermeable. A flow of less than 10 gpm was identified using geophysical logging techniques.

Modification Procedure

Upon completion of GWW #2 a large flow of water (200 gpm) was leaking around the packer located at a depth of 1081 ft. This water was identified as coming from an aquifer located between 1,072' and 1,150' in depth. This is the same aquifer that is producing water in Geothermal Water Well #1 (GWW #1) located approximately 1,500' southeast of GWW #2. The water from this aquifer at GWW #2 and GWW #1 is now being analyzed for its quality.

To increase the flow and temperature of the water from the GWW #2, the casing of the well will be perforated at depths where drilling and geophysical logging have identified sand formations that could be potential aquifers.

The depth intervals identified for perforation are:

| <u>Interval No.</u> | <u>From</u> | <u>To</u> | <u>Thickness (ft.)</u> |
|---------------------|-------------|-----------|------------------------|
| 1                   | 1,150'      | 1,230'    | 80                     |
| 2                   | 1,675'      | 1,715'    | 40                     |
| 3                   | 1,797'      | 1,817'    | 20                     |
| 4                   | 1,845'      | 1,885'    | <u>40</u>              |

Total      180 ft.

The depths, intervals, and formations to be perforated are indicated on the attached drawing. The perforating will be contracted to an outside service company.

Tests for Aquifer Contamination

To identify if any aquifer contamination is taking place, the water from GWW #2 will be analyzed for its quality after perforation has taken place. The quality of the water from this second analysis will be compared to the quality of water from GWW #1, and GWW #2 taken prior to perforation of GWW #2.

FEB 02 1993

Continued ...

Page 2

To use as a comparison baseline, water from the "Richardson" well located approximately one (1) mile south of GWW #2 will be used. The quality of this water is known by the Dept. of Water Resources (See Water Resources Bull. No. 30 pt. 11) but it will be analyzed again. The "Richardson" well was drilled in 1958. The "Richardson well was dynamited in attempts to pull the casing. Pulling of the casing was unsuccessful. Over the past 31 years the casing has certainly deteriorated to allow any aquifers to commingle.

If no significant deterioration can be identified from the comparison of the analysis, it can safely be assumed that any commingling of water hasn't contaminated any aquifers.

AB/tdf

188b89.ab

FEB 02 1993

## CONVERSATION MEMORANDUM

DATE 7-5-89

FILE \_\_\_\_\_

NAME OF PARTY Armond BeersEMPLOYEE Mark SlifkaRE: J.R. Simplot GWW #2 Geothermal Well

Mr. Beers visited with me for approx. 1.5 hrs on 7-5-89 10:30 am → 12:00 regarding their plans to perforate additional zones and to commingle waters from different geothermal reservoirs.

A zone at ~ 1150', which is producing through a leaking packer at that depth, is proposed to be commingled with 4-5 other reservoir waters located from approximately 1400 to 2000'. The production line<sup>(10")</sup> is not grouted, but the clays have likely closed onto the casing and sealed most, if not all vertical migration of reservoir fluids. I told Mr. Beers that my greatest fear was that the higher pressured aquifers (1400-2000') might not be chemically incompatible with their aquifer at 1150'. This aquifer <sup>is not</sup> ~~is~~ <sup>part</sup> ~~not~~ in this well but produces from the GWW #2 ~ 1500' away. Prelim. testing indicates these reservoirs are contiguous. #

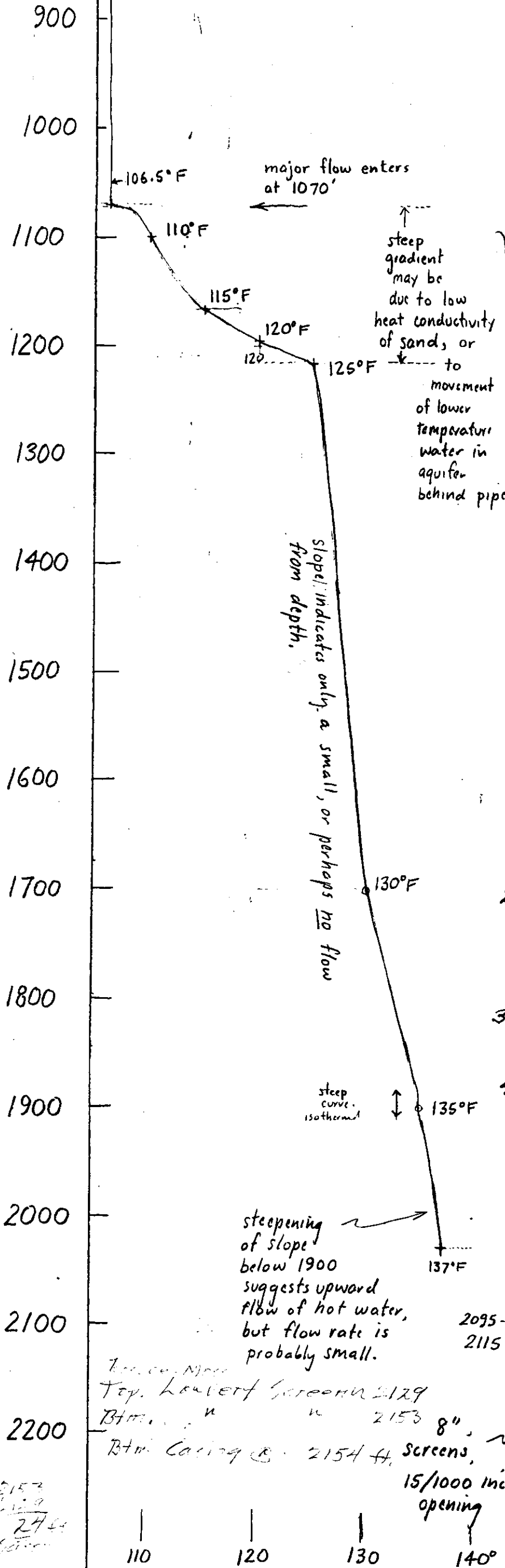
After discussing several means of testing the lower zones for compatibility we decided on testing the upper zone first, then perforating the lower 4-5 zones and commingling the waters and testing again to see if the water change chemistry or pH substantially. They are preparing an amendment to The Drilling Procedure. M. Slifka

FEB 02 1993

+ 105.5°F flow at surface, 200 gpm, water conductivity = 377 micromhos/cm @ 25°C

Temperature, °F

105 110 120 130 140



16" casing

10" casing

diagramatic lithology (sand & shale)

Simplot Geothermal No.2  
Summary & interpretation  
of temperature logging

Spencer Wood 6/6/89

1072' 1081 Top 10" well

67' 2" - 10"

1148  
1081  
67 ft 10" well

1150' 1148 Bottom 16" well

Sands above 1224' have 3x greater resistivity than those at 1870' & 2150'

14 1/2" 22" casing

1695

1715

1797

1817

1845

1885

V. Thomas indicated a tight zone at 2040' even though cased

of equal resistivity

most resistive sand of lower section

Louvered Screen on 10" well casing 2110-2130' - slid down hole in 8 ft. 60 thousand lbs. Screen

Top. Louvered Screen 2129  
Bottom " " 2153  
Bottom Casing @ 2154 ft. 8" screens, 15/1000 inch opening

110 120 130 140



State of Idaho  
DEPARTMENT OF WATER RESOURCES

1301 North Orchard Street, Statehouse Mail, Boise, Idaho 83720 - (208) 327-7900

CECIL D. ANDRUS

GOVERNOR

R. KEITH HIGGINSON

DIRECTOR

April 3, 1989

Mr. Bruce L. Belzer  
J. R. Simplot Company  
999 Main St., Suite 1300  
Boise, ID 83707

Ref: Permit 63-10553

Dear Mr. Belzer:

As per our telephone conversation today, I have reviewed your proposal to change the 12" casing to 10", and the wall thickness from .375 to .250 inches, in your second geothermal well near Caldwell.

The .250 wall thickness for this well complies with our minimum requirements and your proposal is therefore approved.

Sincerely,

A handwritten signature in cursive script that reads 'Lotwick I. Reese'.

LOTWICK I. REESE, P.E. Manager  
Groundwater Protection

CC: W. Reg.

APPROVED

FEB 02 1993



State of Idaho  
DEPARTMENT OF WATER RESOURCES

1301 North Orchard Street, Statehouse Mail, Boise, Idaho 83720 - (208) 334-7900

September 12, 1988

CECIL D. ANDRUS  
GOVERNOR  
R. KEITH HIGGINSON  
DIRECTOR

James C. Frost  
J.R. Simplot Company  
P.O. Box 912  
Pocatello, ID 83201

RE: Caldwell Geothermal Well  
63-87-2-97  
63-10553

Dear Mr. Frost:

Your letter and other information has been reviewed. Please provide the following additional information.

- o Your lithology log shows an upper geothermal aquifer at 415'-480', a middle geothermal aquifer at 1090'-1140'. Based upon what you have, where do you anticipate a lower geothermal aquifer to be?
- o You have indicated various cement jobs on the well. How do we know the caliber of the jobs? What returns, volumes, etc. were documented? A statement from a registered engineer or geologist on site specifying why you did, what you did, would be helpful. The Department needs assurance that the job was done properly.
- o Your one drawing indicates the bottom of the hole at 1095' while the log shows 1200'. What happened between 1095' and 1200'?
- o If available, please provide copies of the drillers and geologists daily logs. These logs would be helpful, particularly the days you were cementing.
- o Was the annulus between the 12-inch and 16-inch casing cemented? If not, why?
- o Please send us copies of any aquifer test data or interpretive reports you have.

Once I receive your comments, we will inspect the well. If you have any questions, please contact me.

In the future, I ask that the Department be notified prior to grouting or cementing any other geothermal wells.

Sincerely,

JOHN E. BEAL, Manager  
Groundwater Protection Section

FEB 02 1993

JEB:ldt(GP12-1.97)

CC: Bruce Belzer



J. R. SIMPLOT COMPANY ONE CAPITAL CENTER 999 MAIN STREET SUITE 1300  
P.O. BOX 27 BOISE, IDAHO 83707 (208) 336-2110 TELETYPE 368432

CORPORATE HEADQUARTERS

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JUL 15 1988

Department of Water Resources

July 13, 1988

Mr. John Beal  
Section Manager - Groundwater Protection  
Idaho Department of Water Resources  
Statehouse Mail  
Boise, ID 83720

RE: Bond No. 81S 100480063 BCA

Dear John:

I've enclosed the additional Surety Bond required for the second geothermal well at Caldwell. Please advise if you have any questions. Thanks.

Sincerely,

BRUCE L. BELZER  
Assistant General Counsel

1602v

Enclosure

RECEIVED

FEB 02 1993

4/88

RECEIVED

JUL 15 1988

State of Idaho  
Department of Water Resources

LOW TEMPERATURE GEOTHERMAL RESOURCE WELL  
SURETY BOND

Department of Water Resources

THE AETNA CASUALTY AND SURETY COMPANY  
(Name of Surety)

BOND NO. 81S 100480063 BCA

KNOW ALL MEN BY THESE PRESENTS: That J. R. SIMPLOT CO.  
(Well Owner)  
as principal, and AETNA C & S Co. as corporation, duly organized and doing  
(Surety)  
business under and by virtue of the laws of the State of Connecticut, and  
authorized to do business in the State of Idaho, and duly licensed for the  
purpose of making, guaranteeing or becoming sole surety upon bonds or under-  
takings required or authorized by the laws of the State of Idaho, as surety,  
are held and firmly bound unto the people of the State of Idaho through the  
Director, Department of Water Resources (Director) in the sum of TWENTY  
thousand dollars (\$20,000.00), lawful money in the United States of America,  
for the payment whereof well and truly to be made, we bind ourselves, our  
heirs, executors, successors and assigns, jointly and severally firmly by  
these presents.

WHEREAS, under the terms of Section 42-233(2), Idaho Code, a surety bond  
is required of said principal and good sufficient surety, payable to the peo-  
ple of the State of Idaho through the Director, and conditioned upon the  
faithful and honest compliance with Chapter 2 and Chapter 40, Title 42, Idaho  
Code, and with the rules and regulations promulgated pursuant thereto by the  
Director for the construction, operation and maintenance of a low temperature  
geothermal resource well located in SE'14 NE $\frac{1}{4}$  NE $\frac{1}{4}$  Sec 19T4N, R3N1 BM  
(Legal Description)

This bond shall remain in force for one (1) year following completion of  
drilling, redrilling, modifying or deepening of the well or until released in  
writing by the director, whichever occurs first.

NOW, THEREFORE, if the above bounden principal shall faithfully and hon-  
estly maintain and operate the well in compliance with the provisions of said  
statutes and rules and regulations, then this obligation shall be null and  
void; otherwise to remain in full force and effect.

IN WITNESS WHEREOF WE HAVE SET OUR HANDS AND SEALS THIS 12th day of  
July, 1988.

COUNTERSIGNED

By [Signature]  
(Seal) Swan Insurance  
Resident Idaho Agent

Address X P. O. Box 7337

Boise, Idaho 83707

J. R. SIMPLOT CO. (Seal)  
(Principal)

RECEIVED

FEB 02 1993

THE AETNA CASUALTY & SURETY (Seal)  
(Surety Company)

[Signature] (Seal)  
Andrea L. Berry  
Attorney-in-Fact



THE AETNA CASUALTY AND SURETY COMPANY  
Hartford, Connecticut 06115

## POWER OF ATTORNEY AND CERTIFICATE OF AUTHORITY OF ATTORNEY(S)-IN-FACT

KNOW ALL MEN BY THESE PRESENTS, THAT THE AETNA CASUALTY AND SURETY COMPANY, a corporation duly organized under the laws of the State of Connecticut, and having its principal office in the City of Hartford, County of Hartford, State of Connecticut, hath made, constituted and appointed, and does by these presents make, constitute and appoint Bradley R. Norrick, Thomas L. Towle, John C. Haskell, Jr., Andrea L. Berry or Erika B. Horn - -

of Seattle, Washington, its true and lawful Attorney(s)-in-Fact, with full power and authority hereby conferred to sign, execute and acknowledge, at any place within the United States, or, if the following line be filled in, within the area there designated, the following instrument(s):  
by his/her sole signature and act, any and all bonds, recognizances, contracts of indemnity, and other writings obligatory in the nature of a bond, recognizance, or conditional undertaking, and any and all consents incidents thereto

and to bind THE AETNA CASUALTY AND SURETY COMPANY, thereby as fully and to the same extent as if the same were signed by the duly authorized officers of THE AETNA CASUALTY AND SURETY COMPANY, and all the acts of said Attorney(s)-in-Fact, pursuant to the authority herein given, are hereby ratified and confirmed.

This appointment is made under and by authority of the following Standing Resolutions of said Company which Resolutions are now in full force and effect:

VOTED: That each of the following officers: Chairman, Vice Chairman, President, Any Executive Vice President, Any Senior Vice President, Any Vice President, Any Assistant Vice President, Any Secretary, Any Assistant Secretary, may from time to time appoint Resident Vice Presidents, Resident Assistant Secretaries, Attorneys-in-Fact, and Agents to act for and on behalf of the Company and may give any such appointee such authority as his certificate of authority may prescribe to sign with the Company's name and seal with the Company's seal bonds, recognizances, contracts of indemnity, and other writings obligatory in the nature of a bond, recognizance, or conditional undertaking, and any of said officers or the Board of Directors may at any time remove any such appointee and revoke the power and authority given him.

VOTED: That any bond, recognizance, contract of indemnity, or writing obligatory in the nature of a bond, recognizance, or conditional undertaking shall be valid and binding upon the Company when (a) signed by the Chairman, the Vice Chairman, the President, an Executive Vice President, a Senior Vice President, a Vice President, an Assistant Vice President or by a Resident Vice President, pursuant to the power prescribed in the certificate of authority of such Resident Vice President, and duly attested and sealed with the Company's seal by a Secretary or Assistant Secretary or by a Resident Assistant Secretary, pursuant to the power prescribed in the certificate of authority of such Resident Assistant Secretary; or (b) duly executed (under seal, if required) by one or more Attorneys-in-Fact pursuant to the power prescribed in his or their certificate or certificates of authority.

This Power of Attorney and Certificate of Authority is signed and sealed by facsimile under and by authority of the following Standing Resolution voted by the Board of Directors of THE AETNA CASUALTY AND SURETY COMPANY which Resolution is now in full force and effect:

VOTED: That the signature of each of the following officers: Chairman, Vice Chairman, President, Any Executive Vice President, Any Senior Vice President, Any Vice President, Any Assistant Vice President, Any Secretary, Any Assistant Secretary, and the seal of the Company may be affixed by facsimile to any power of attorney or to any certificate relating thereto appointing Resident Vice Presidents, Resident Assistant Secretaries or Attorneys-in-Fact for purposes only of executing and attesting bonds and undertakings and other writings obligatory in the nature thereof, and any such power of attorney or certificate bearing such facsimile signature or facsimile seal shall be valid and binding upon the Company and any such power so executed and certified by such facsimile signature and facsimile seal shall be valid and binding upon the Company in the future with respect to any bond or undertaking to which it is attached.

IN WITNESS WHEREOF, THE AETNA CASUALTY AND SURETY COMPANY has caused this instrument to be signed by its Assistant Vice President  
day of April, 1986, and its corporate seal to be hereto affixed this 30th

State of Connecticut }  
County of Hartford } ss. Hartford



THE AETNA CASUALTY AND SURETY COMPANY

By Joseph P. Kiernan  
Joseph P. Kiernan  
Assistant Vice President

On this 30th day of April, 1986, before me personally came JOSEPH P. KIERNAN, to me known, who, being by me duly sworn, did depose and say: that he/she is Assistant Vice President of THE AETNA CASUALTY AND SURETY COMPANY, the corporation described in and which executed the above instrument; that he/she knows the seal of said corporation; that the seal affixed to the said instrument is such corporate seal; and that he/she executed the said instrument on behalf of the corporation by authority of his/her office under the Standing Resolutions thereof.



Johanna M. Degnan  
My commission expires March 31, 1989 Notary Public  
Johanna M. Degnan

### CERTIFICATE

I, the undersigned, Secretary of THE AETNA CASUALTY AND SURETY COMPANY, a stock corporation of the State of Connecticut, DO HEREBY CERTIFY that the foregoing and attached Power of Attorney and Certificate of Authority remains in full force and has not been revoked; and furthermore, that the Standing Resolutions of the Board of Directors, as set forth in the Certificate of Authority, are now in force.

Signed and Sealed at the Home Office of the Company, in the City of Hartford, State of Connecticut, Date this 12th day of July, 1988



By Vincent A. Walsh  
Vincent A. Walsh, Secretary

PRINTED IN U.S.A.

FEB 02 1993



CORPORATE HEADQUARTERS  
P.O. BOX 27 · BOISE, IDAHO 83707

Mr. John Beal  
Section Manager - Groundwater Protection  
Idaho Department of Water Resources  
Statehouse Mail  
Boise, ID 83720

RECEIVED  
FEB 02 1993

FEB 02 1993



J.R. SIMPL COMPANY

Box 27

BOISE, IDAHO 83707

PLACE  
STAMP  
HERE

RECEIVED

MAY 25 1988



RECEIVED

FEB 02 1993

Department of Water Resources  
IDAHO DEPARTMENT OF WATER RESOURCES  
STATEHOUSE  
BOISE, IDAHO 83720

|||||

STATE OF IDAHO  
DEPARTMENT OF WATER RESOURCES  
COMMENCEMENT OF WORKS

Permit No. 63-10553  
Name(s) of Permit Holder(s): J. R. Simplot Company  
Post Office Address: P.O. Box 27  
Boise, Idaho 83707 Tel. No. 336-2110

- ☒ I hereby certify that construction of diversion works for the above referenced permit began on December 1987 (date). I understand that I must continue to develop the water system with due diligence to maintain a valid permit.
- ☐ I hereby certify that construction of diverting works on the above referenced project has not yet begun due to the following reason beyond my control\*:

\*Note: A financing difficulty is  
not an acceptable reason.

5-23-88  
Date

[Signature] Secretary  
Signature of Permit Holder

State of Idaho  
Department of Water Resources

DRILLING PERMIT

(Authorizing Construction of a Well)\*

RECEIVED  
MAY 31 1988

Department of Water Resources

1. Applicant J.R. Simplot Company

2. Address P.O. Box 27 Boise, Idaho 83707

ATTN: Ronald N. Graves

☒ Well Owner ☐ Well Operator ☐ Other, specify \_\_\_\_\_

3. Water right permit no. 63-10553; Injection well permit no. \_\_\_\_\_

4. Proposed well location SE 1/4 NE 1/4 NE 1/4, or Gov't lot No. \_\_\_\_\_,  
Sec. 19, Twp. 4N, Rge. 3W, County Canyon,  
Lot, block and subdivision \_\_\_\_\_

5. Proposed use of well: (Check all that apply)

☐ Domestic ☐ Stockwater ☐ Monitoring  
☐ Irrigation ☒ Industrial ☐ Municipal  
☐ Injection ☒ Other, Specify Fish Propagation

6. Well construction information:

☒ New well ☐ Deepen ☐ Replace  
Proposed surface diameter 24" Proposed depth 2,050

Anticipated bottom hole temperature:

☐ 85°F or less (Cold water well)  
☒ 85°F to 212°F (Low temp. geothermal well)  
☐ 212°F or more (Geothermal well)

7. Anticipated construction start date June 6, 1988

8. Well Driller (if known) Thomas Drilling #390

Address Rt. 1 Afton Wyoming 83110

Date 5/27/88 Applicant's signature Ronald N. Graves

Title Secretary

\* After other pre-requisite approvals have been obtained.

AUG 05 1988

ACTION OF IDWR

☒ Approved      ( ) Denied

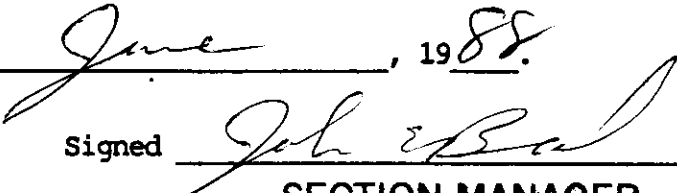
The approval of this permit authorizes the construction of a well as described on this application subject to the conditions on this permit.

GENERAL CONDITIONS:

1. The well must be constructed in compliance with the applicable statutes, specific conditions of approval shown on the water right permit, injection well permit, transfer or amendment and the rules and regulations of the Department for water appropriation, injection wells and well construction standards.
2. This drilling permit is valid for two (2) months from its date of issuance for the start of construction and is valid for one (1) year from the date of issuance for completion of the well unless an extension has been granted.
3. The permit holder or his representative shall notify the Department ten (10) days prior to the start of construction unless good cause for later notification can be shown.
4. The well shall be constructed by a driller currently licensed in the State of Idaho who must maintain a copy of the drilling permit at the drilling site.
5. Issuance of this drilling permit does not authorize trespass on the land of another party.
6. This permit does not constitute other local, county, state or federal approvals which may be required for construction of a well.

SPECIFIC CONDITIONS:

8. An amendment to permit 63-10553 adding this point of diversion must be approved prior to the diversion of water from this well.
9. All drillers logs and temperature logs shall be submitted to the Department.
10. A bond as required by Idaho Code Section 42-233 shall be submitted to the Department. The bond shall be in the amount of \$20,000.

Dated this 9<sup>th</sup> day of June, 1988.  
  
Signed John E. Ball  
Title SECTION MANAGER  
GROUNDWATER PROTECTION  
AUG 05 1988

Received by eg/920 Fee 100.00 Date 6/1/88  
Receipt No. 6001070 Construction start date \_\_\_\_\_  
Construction start extension to \_\_\_\_\_  
Extension approved by \_\_\_\_\_

# J. I. SIMPLOT COMPANY CALDWELL GEOTHERMAL WATER WELL CASING DIAGRAM - GWW #2

Surface casing is grouted  
between 24" & drill hole

Area between 24" & 22" casing  
is grouted from 0 to 500'

Area between 22" and 16"  
casing is grouted from  
1000' to 1100'

## Vertical Scale



No Horizontal Scale

0  
60

1100

2000

2050

Surface casing (24" 0.250 std. wall) 0-60 ft

Casing (22" 0.250 std. wall, from 0-500)

Packer at 500' between 22" and 16" with  
20' overlap, 480-500'

Casing (16" 0.375 std. wall, from 0-1100')

Packer at 1100' between 16" and 12"  
with 20' overlap (1080 -1100')

Casing 12" 0.375 std. wall, from 1100- 2000

**MICROFILMED**

AUG 05 1988

Packer between screen and 12" with  
10 foot overlap

50' of 15 slot stainless screen  
(10.75" O.D. extra heavy duty)



State of Idaho

DEPARTMENT OF WATER RESOURCES

1301 North Orchard Street, Statehouse Mail, Boise, Idaho 83720 - (208) 334-7900

CECIL D. ANDRUS

GOVERNOR

R. KEITH HIGGINSON

DIRECTOR

June 9, 1988

J. R. Simplot Company  
P.O. Box 27  
Boise ID 83707  
Attn: Ronald N. Graves

RE: Drilling Permits

Dear Mr Graves:

Enclosed is the approved drilling permit for your proposed second Geothermal well in Caldwell. You need to be aware that the surety bond must be submitted and your water permit must be amended.

Mr. Belzer asked if drilling permits were needed for your U-Tube Oxygen Concentrator holes. Yes, drilling permits and well driller reports are needed. Since no water will be withdrawn the fee is only \$10.

Enclosed are the forms you will need, if you have any questions contact me.

Sincerely

A handwritten signature in cursive script that reads "John E. Beal".

JOHN E. BEAL  
Groundwater Protection Section

RECEIVED

AUG 05 1988

CORPORATE HEADQUARTERS

MAY 31 1988

May 31, 1988

Department of Water Resources

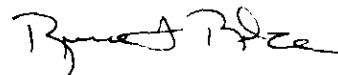
Mr. John Beal  
Section Manager - Groundwater Protection  
Idaho Department of Water Resources  
Statehouse Mail  
Boise, ID 83720

Dear John:

As we discussed by telephone today, I have enclosed an application for Drilling Permit and the required \$100 fee. This well is an additional hot water well under Permit No. 63-10553. As I mentioned, any help you can provide in expediting the review will be appreciated, since the project is behind schedule due to the problems associated with the first well driller.

Additionally, I have provided some information with regard to the other holes we would like to drill. We anticipate four installations of the U-Tube concentrator. Please call me if you have any questions, or if I can be of any assistance. Thank you.

Sincerely,



BRUCE L. BELZER  
Assistant General Counsel

0142R

Enclosures

cc: Sot Chimonas

**MICROFILMED**

AUG 05 1988

SIMPLOT AQUACULTURE

U-TUBE OXYGEN CONCENTRATORS

The project will be using and recycling approximately 32,000 gpm of water which will be oxygenated in a double pipe arrangement, whereby the water and oxygen are pumped together inside the center pipe and come up the annulus space between this pipe and the outside pipe. This arrangement resides inside a deep hole and is completely sealed from the ground.

Following are the specifications:

|                           |          |
|---------------------------|----------|
| Number of tubes:          | 4        |
| Material of construction: | PVC      |
| Size of outside pipe:     | 22"      |
| Surface seal:             | Concrete |
| Depth:                    | 225'     |

RECEIVED

AUG 05 1988



State of Idaho

DEPARTMENT OF WATER RESOURCES

1301 North Orchard Street, Statehouse Mail, Boise, Idaho 83720 - (208) 334-7900

May 23, 1988

CECIL D. ANDRUS

GOVERNOR

R. KEITH HIGGINSON

DIRECTOR

RE: Permit No. 63-10553

J.R. Simplot Co.

Box 27

Boise, ID 83707

Dear Permit Holder(s):

Enclosed is a copy of your approved Application for Permit. We direct your attention to the conditions of approval on the final page.

Be sure to note the special condition requiring you to install a measuring device, or a flow measurement port to provide for the installation of measuring equipment by the Department. Enclosed please find a list of measuring device options, and specifications for the installation of the flow measurement port.

Please be advised that your plans for fish propagation may be subject to regulations of the Idaho Department of Fish and Game. We suggest that you check with them before starting construction.

Please note the requirement that as a permit holder you must commence the excavation or construction of diverting works within one year of the date the permit was issued, and you must proceed diligently until the project is completed. The enclosed blue card must be completed and returned to this office as soon as you commence construction, no later than one year from the date the permit was approved.

We have enclosed 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 license.

Sincerely,

GARY SPACKMAN, Supervisor  
Water Allocation Section

GS:sc

Enclosures

**MICROFILMED**

AUG 03 1988



J. R. SIMPLOT COMPANY ONE CAPITAL CENTER 999 MAIN STREET SUITE 1300  
P.O. BOX 27 BOISE, IDAHO 83707 (208) 336-2110 TELEX 368432

CORPORATE HEADQUARTERS

**RECEIVED**

APR 21 1988

April 20, 1988

Department of Water Resources

Mr. Jim Johnson  
Water Rights Supervisor  
Department of Water Resources  
Statehouse Mail  
Boise, ID 83720

RE: 63-10553

Dear Jim:

This will acknowledge receipt of your April 18th letter on this application. As we discussed by phone prior to you sending the letter, we can only make a best guesstimate at this time. However, the following data depicts the anticipated annual warm water requirement at varying temperatures. This will ultimately depend upon seasonal air temperatures, temperature and quality of any cold water source utilized to mix with the warm water, etc.

| <u>Warm Water Temp (F)</u> | <u>Annual Volume in Million Gallons</u> |
|----------------------------|-----------------------------------------|
| 100                        | 1,800                                   |
| 110                        | 1,000                                   |
| 125                        | 600                                     |
| 140                        | 375                                     |
| 150                        | 300                                     |

Jim, I hope this information is sufficient for your evaluation purposes. At this point it is really the best we can come up with, prior to knowing more about the warm water aquifer. We had anticipated having tested the well by now, but the driller did not complete the hole according to schedule. Please call if you have any questions.

Sincerely,

BRUCE L. BELZER  
Assistant General Counsel

0084R

cc: Sot Chimonas

**RECEIVED**

AUG 05 1988



State of Idaho  
**DEPARTMENT OF WATER RESOURCES**

1301 North Orchard Street, Statehouse Mail, Boise, Idaho 83720 - (208) 334-7900

CECIL D. ANDRUS

GOVERNOR

R. KEITH HIGGINSON

DIRECTOR

April 18, 1988

RE: Application for Permit No. 63-10553

Bruce Belzer  
J.R. Simplot Co.  
Box 27  
Boise, ID 83707

Dear Mr. Belzer:

We are in the process of reviewing the above referenced application for permit. Since water is for a geothermal resource, the Department would like to request additional information regarding the expected annual volume usage of the amounts identified under the application.

Please provide this information as soon as possible, so that we can continue processing of the application.

Sincerely,

JIM JOHNSON  
Water Rights Supervisor

JJ:sc

RECEIVED  
FILMED

AUG 05 1988

Copy

State of Idaho  
Department of Water Resources

LOW TEMPERATURE GEOTHERMAL RESOURCE WELL  
SURETY BOND

THE AETNA CASUALTY AND SURETY COMPANY  
(Name of Surety)

BOND NO. 81S 100434352 BCA

KNOW ALL MEN BY THESE PRESENTS: That J. R. SIMPLOT COMPANY

(Well Owner)

as principal, and AETNA CASUALTY & SURETY CO as corporation, duly organized  
(Surety)

and doing business under and by virtue of the laws of the State of Connecticut and authorized to do business in the State of Idaho, and duly licensed for the purpose of making, guaranteeing or becoming sole surety upon bonds or undertakings required or authorized by the laws of the State of Idaho, as surety, are held and firmly bound unto the people of the State of Idaho through the Director, Department of Water Resources (Director) in the sum of TWENTY THOUSAND thousand dollars (\$20,000.00\*\*\*\*), lawful money of the United States of America, for the payment whereof well and truly to be made, we bind ourselves, our heirs, executors, successors and assigns, jointly and severally firmly by these presents.

WHEREAS, under the terms of Section 42-233(2), Idaho Code, a surety bond is required of said principal and good sufficient surety, payable to the people of the State of Idaho through the Director, and conditioned upon the faithful and honest compliance with Chapter 2 and Chapter 40, Title 42, Idaho Code, and with the rules and regulations promulgated pursuant thereto by the Director for the construction, operation and maintenance of a low temperature geothermal resource well located in Highway 19, West of Caldwell, Idaho.

(Legal Description)

NOW, THEREFORE, if the above bounden principal, during the life of the well (from the date of drilling, redrilling, enlargement, or deepening until replacement of the bond by a subsequent owner or abandonment of the well) shall faithfully and honestly maintain and operate the well in compliance with the provisions of said statutes and rules and regulations, then this obligation shall be null and void; otherwise to remain in full force and effect.

IN WITNESS WHEREOF WE HAVE SET OUR HANDS AND SEALS THIS 4th day of December, 1987.

J. R. SIMPLOT COMPANY

(Principal)

(Seal) 05 1988

by [Signature]

THE AETNA CASUALTY AND SURETY COMPANY

(Surety Company)

COUNTERSIGNED

By [Signature]  
(Seal) Swan Insurance  
Resident Idaho Agent

Address: 2229 W. State Street  
Boise, Idaho 83702

[Signature]  
(Attorney-in-Fact)  
Andrea L. Berry

(Seal)



THE AETNA CASUALTY AND SURETY COMPANY  
Hartford, Connecticut 06115

## POWER OF ATTORNEY AND CERTIFICATE OF AUTHORITY OF ATTORNEY(S)-IN-FACT

KNOW ALL MEN BY THESE PRESENTS, THAT THE AETNA CASUALTY AND SURETY COMPANY, a corporation duly organized under the laws of the State of Connecticut, and having its principal office in the City of Hartford, County of Hartford, State of Connecticut, hath made, constituted and appointed, and does by these presents make, constitute and appoint Bradley R. Norrick, Thomas L. Towle, John C. Haskell, Jr., Andrea L. Berry or Erika B. Horn - -

of Seattle, Washington, its true and lawful Attorney(s)-in-Fact, with full power and authority hereby conferred to sign, execute and acknowledge, at any place within the United States, or, if the following line be filled in, within the area there designated, the following instrument(s):  
by his/her sole signature and act, any and all bonds, recognizances, contracts of indemnity, and other writings obligatory in the nature of a bond, recognizance, or conditional undertaking, and any and all consents incidents thereto

and to bind THE AETNA CASUALTY AND SURETY COMPANY, thereby as fully and to the same extent as if the same were signed by the duly authorized officers of THE AETNA CASUALTY AND SURETY COMPANY, and all the acts of said Attorney(s)-in-Fact, pursuant to the authority herein given, are hereby ratified and confirmed.

This appointment is made under and by authority of the following Standing Resolutions of said Company which Resolutions are now in full force and effect:

VOTED: That each of the following officers: Chairman, Vice Chairman, President, Any Executive Vice President, Any Senior Vice President, Any Vice President, Any Assistant Vice President, Any Secretary, Any Assistant Secretary, may from time to time appoint Resident Vice Presidents, Resident Assistant Secretaries, Attorneys-in-Fact, and Agents to act for and on behalf of the Company and may give any such appointee such authority as his certificate of authority may prescribe to sign with the Company's name and seal with the Company's seal bonds, recognizances, contracts of indemnity, and other writings obligatory in the nature of a bond, recognizance, or conditional undertaking, and any of said officers or the Board of Directors may at any time remove any such appointee and revoke the power and authority given him.

VOTED: That any bond, recognizance, contract of indemnity, or writing obligatory in the nature of a bond, recognizance, or conditional undertaking shall be valid and binding upon the Company when (a) signed by the Chairman, the Vice Chairman, the President, an Executive Vice President, a Senior Vice President, a Vice President, an Assistant Vice President or by a Resident Vice President, pursuant to the power prescribed in the certificate of authority of such Resident Vice President, and duly attested and sealed with the Company's seal by a Secretary or Assistant Secretary or by a Resident Assistant Secretary, pursuant to the power prescribed in the certificate of authority of such Resident Assistant Secretary; or (b) duly executed (under seal, if required) by one or more Attorneys-in-Fact pursuant to the power prescribed in his or their certificate or certificates of authority.

This Power of Attorney and Certificate of Authority is signed and sealed by facsimile under and by authority of the following Standing Resolution voted by the Board of Directors of THE AETNA CASUALTY AND SURETY COMPANY which Resolution is now in full force and effect:

VOTED: That the signature of each of the following officers: Chairman, Vice Chairman, President, Any Executive Vice President, Any Senior Vice President, Any Vice President, Any Assistant Vice President, Any Secretary, Any Assistant Secretary, and the seal of the Company may be affixed by facsimile to any power of attorney or to any certificate relating thereto appointing Resident Vice Presidents, Resident Assistant Secretaries or Attorneys-in-Fact for purposes only of executing and attesting bonds and undertakings and other writings obligatory in the nature thereof, and any such power of attorney or certificate bearing such facsimile signature or facsimile seal shall be valid and binding upon the Company and any such power so executed and certified by such facsimile signature and facsimile seal shall be valid and binding upon the Company in the future with respect to any bond or undertaking to which it is attached.

IN WITNESS WHEREOF, THE AETNA CASUALTY AND SURETY COMPANY has caused this instrument to be signed by its Assistant Vice President, and its corporate seal to be hereto affixed this 30th day of April, 1986

State of Connecticut }  
County of Hartford } ss. Hartford



THE AETNA CASUALTY AND SURETY COMPANY

By Joseph P. Kiernan  
Joseph P. Kiernan  
Assistant Vice President

On this 30th day of April, 1986, before me personally came JOSEPH P. KIERNAN, to me known, who, being by me duly sworn, did depose and say: that he/she is Assistant Vice President of THE AETNA CASUALTY AND SURETY COMPANY, the corporation described in and which executed the above instrument; that he/she knows the seal of said corporation; that the seal affixed to the said instrument is such corporate seal; and that he/she executed the said instrument on behalf of the corporation by authority of his/her office under the Standing Resolutions thereof.



Johanna M. Degnan  
My commission expires March 31, 1989  
Johanna M. Degnan, Notary Public

### CERTIFICATE

I, the undersigned, Secretary of THE AETNA CASUALTY AND SURETY COMPANY, a stock corporation of the State of Connecticut, DO HEREBY CERTIFY that the foregoing and attached Power of Attorney and Certificate of Authority remains in full force and has not been revoked; and furthermore, that the Standing Resolutions of the Board of Directors, as set forth in the Certificate of Authority, are now in force.

Signed and Sealed at the Home Office of the Company, in the City of Hartford, State of Connecticut, Dated this 4th day of December, 1987



By Vincent A. Walsh  
Vincent A. Walsh, Secretary

State of Idaho  
Department of Water Resources

APPLICATION FOR PERMIT ANALYSIS SHEET

INITIAL REVIEW BY: Jim Shurt APPLICATION NUMBER: 63-10853  
CHECK:

- ☒ Source.  
☒ Point of diversion. NO LOTS  
☒ County.  
☒ Description of diverting works. NONE WILL GET INFO  
☒ Time required for beneficial use of water.  
☒ Place of use or acres irrigated, NO LOTS  
☒ Map.  
☒ Signature.  
☒ Fee.  
☐ Yes ☒ No Field check required.  
☐ Yes ☒ No Critical groundwater area.  
☐ Yes ☒ No Request dam safety information. Sent by: \_\_\_\_\_ Date: \_\_\_\_\_  
☐ Yes ☐ No\* In form to receipt.

Field check by: \_\_\_\_\_  
Date: \_\_\_\_\_  
Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

\*REQUEST THE FOLLOWING ADDITIONAL INFORMATION FROM THE APPLICANT: \_\_\_\_\_

Need further information concerning the  
size of facility etc. Will send letter. Jp

SEND COPIES TO:

- ☐ Idaho State Health Department.  
☒ Idaho Fish and Game Department.  
☐ Idaho Department of Lands.  
☐ U.S. Bureau of Land Management.  
☐ U.S. Forest Service.  
☐ Other \_\_\_\_\_

Copies sent by: \_\_\_\_\_ Date: \_\_\_\_\_  
\_\_\_\_\_ JP 11/25/87  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

PROCESSING:

- ☐ Yes ☒ No Platted by: \_\_\_\_\_ Map No. \_\_\_\_\_  
☐ Yes ☒ No Other rights on same place of use. NONE FOR INDUSTRIAL HEAT EXTRACTION,  
OR FISH PROPAGATION.  
☒ Yes ☐ No\* In form for advertising.  
Final date for protests: 12/21/87  
☒ Yes ☐ No Protests received. If yes, record information on 4th page of application.

FINAL REGIONAL PROCESSING REVIEW:

- ☒ Affidavit of publication received. Date: 12/9/87  
☒ Application published correctly. If not, record action taken: \_\_\_\_\_  
☒ Fee amount, receipt date & number, recorded on application. 125/43992  
☒ Publication dates and paper, recorded on application. Shaw Dub 12/28/87 12/29/87  
☒ Protests, dates, withdrawal, etc., recorded on application.  
☒ Recommendation & initial, recorded on application.  
☐ Yes ☒ No Measuring device required.  
☐ Yes ☐ No Access port required.  
☐ Yes ☒ No Will water be delivered by watermaster? If yes, what district? 63

12/3/1987 Date of priority recommended. (AMENDED ON 12/3/87) JS  
Special conditions of approval or cover letter. 26A, DIC, 07A, 09C, 20A (Jan 27, 1988), 42,  
The facility volume is limited to 50.7 acre-feet  
under this permit

Note: well drilling permit 63-87-E-97 has been approved.

Delay in processing is due to the protest resolution process.

Recommend that 5 years be allowed for completion of this project.

By: DRT

STATE OFFICE REVIEW:

- ☐ See attached sheet for more information.

By: kw Date: 2-23-88

Department of Water Resources

John Bears memo above  
2/17/88  
09C 20A (1/27/88) 44  
26 DIC 07A 42  
**RECEIVED**

*file copy discarded*

*condition #46 not applicable*

*Withdrawn, Approved, DRT*  
*Use added 11/3/87 on this date*  
*OK PER RULE 3, 4, 3.*  
*OK*



State of Idaho  
**DEPARTMENT OF WATER RESOURCES**  
STATE OFFICE, 450 W. State Street, Boise, Idaho

CECIL D. ANDRUS  
Governor

R. KEITH HIGGINSON  
Director

Mailing address:  
Statehouse  
Boise, Idaho 83720  
(208) 334-4440

December 1, 1987

Bruce L. Belzer  
J.R. Simplot Company  
One Capital Center  
P.O. Box 27  
Boise, ID 83707

RE: Drilling Permit  
NE $\frac{1}{4}$ NE $\frac{1}{4}$  Sec. 19, T4N, R3W

Dear Mr. Belzer:

The Department has reviewed your request for a drilling permit. The permit is approved subject to the following conditions and the conditions on the permit.

1. This drilling permit approval does not represent a right to divert and use the water of the State of Idaho. Prior to the diversion and use of water, the well owner must obtain an approved water permit.
2. The well owner may perform resource and pump tests.
3. The surface casing (the second casing) shall be installed to a depth of 350 feet and sealed from bottom to top with cement grout.
4. The production casing shall be installed to a depth of 1,000 feet or more and shall be sealed with cement grout from 1,000 feet back to land surface.
5. Prior to drilling, a bond shall be submitted to the Director on the Department forms. The surety or cash bond shall be in the amount of \$20,000.00 and must be approved (accepted) by the Department before drilling is authorized.
6. Disposal of fluid shall meet the requirements of the Idaho Department of Health and Welfare and the United States EPA.
7. Logging and/or remedial work may be required, if the sealing procedures or the seal continuity for the production casing or the surface casing is in question.

Sincerely,

JOHN E. BEAL, Manager  
Groundwater Protection Section

JEB:ldt(GP6-1.95) Enclosure

**MICROFILMED**

AUG 05 1988

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NOV 02 1987

Drilling Permit No. 63-87-Z-97  
Water Permit No. \_\_\_\_\_  
Injection Permit No. \_\_\_\_\_

Department of Water Resources State of Idaho  
Department of Water Resources

DRILLING PERMIT

(Authorizing Construction of a Well)\*

RECEIVED

NOV 4 1987

Department of Water Resources  
Western Regional Office

1. Applicant J. R. Simplot Company
2. Address P.O. Box 27, One Capital Center  
Boise, Idaho 83707  
(X) Well Owner (X) Well Operator ( ) Other, specify \_\_\_\_\_
3. Water right permit no. \_\_\_\_\_; Injection well permit no. \_\_\_\_\_
4. Proposed well location SE 1/4 NE 1/4 NE 1/4, or Gov't lot No. \_\_\_\_\_,  
Sec. 19, Twp. 4N, Rge. 3W, County Canyon,  
Lot, block and subdivision \_\_\_\_\_
5. Proposed use of well: (Check all that apply)  
( ) Domestic ( ) Stockwater ( ) Monitoring  
( ) Irrigation (X) Industrial ( ) Municipal  
( ) Injection (X) Other, Specify Geothermal Heat Extraction
6. Well construction information:  
(X) New well ( ) Deepen ( ) Replace  
Proposed surface diameter 16 inch. Proposed depth 1,200 feet T.D.  
Reference attached Casing Diagram and NOTE below.  
Anticipated bottom hole temperature:  
( ) 85°F or less (Cold water well)  
(X) 85°F to 212°F (Low temp. geothermal well)  
( ) 212°F or more (Geothermal well)
7. Anticipated construction start date November 15, 1987
8. Well Driller (if known) Cope Well Drilling Inc.  
Address 6505 Chinden Blvd. Meridian, Idaho  
Date 10-29-87 Applicant's signature *Ronald N. Graves*  
Title Secretary

\* After other pre-requisite approvals have been obtained.

NOTE: Surface casing will be 16 inch seamless .375 wall standard schedule pipe to safely contain the artesian pressure of the deep confined aquifer which is estimated at about 20 feet of head at the surface.

The completed well will be cased to the deep aquifer to assure that the well construction does not permit leakage of deep aquifer into shallower aquifers over the life of the well.

MICROFILMED

AUG 05 1988

## ACTION OF IDWR

(X) Approved ( ) Denied

63-87-2-97

The approval of this permit authorizes the construction of a well as described on this application subject to the conditions on this permit.

## GENERAL CONDITIONS:

1. The well must be constructed in compliance with the applicable statutes, specific conditions of approval shown on the water right permit, injection well permit, transfer or amendment and the rules and regulations of the Department for water appropriation, injection wells and well construction standards.
2. This drilling permit is valid for two (2) months from its date of issuance for the start of construction and is valid for one (1) year from the date of issuance for completion of the well unless an extension has been granted.
3. The permit holder or his representative shall notify the Department ten (10) days prior to the start of construction unless good cause for later notification can be shown.
4. The well shall be constructed by a driller currently licensed in the State of Idaho who must maintain a copy of the drilling permit at the drilling site.
5. Issuance of this drilling permit does not authorize trespass on the land of another party.
6. This permit does not constitute other local, county, state or federal approvals which may be required for construction of a well.

## SPECIFIC CONDITIONS:

7. Subject to the conditions of the transmittal letter.

MICROFILMED

AUG 05 1988

Dated this 1<sup>st</sup> day of December, 1987.

Signed

Title

John E. Beal  
SECTION MANAGER  
GROUNDWATER PROTECTION

Received by

Fee

100.00

Date

11/19/87

Receipt No.

46013

Construction start date

Construction start extension to

Extension approved by



CECIL D. ANDRUS  
Governor

State of Idaho  
**DEPARTMENT OF WATER RESOURCES**  
**WESTERN REGION**, 2735 Airport Way, Boise, Idaho 83705 • (208) 334-2190

R. KEITH HIGGINSON  
Director

February 16, 1988

Bruce L. Belzer  
Assistant General Counsel  
J. R. Simplot Company  
P. O. Box 27  
Boise, ID 83707

Edward Miller  
P.O. Box 52  
Caldwell, ID 83606

Re: Application for Permit No. 63-10553 in the Name of J. R. Simplot Co.

Gentlemen:

This office acknowledges receipt of the withdrawal of protest against the above-referenced application for permit.

The Department now will continue to process the application.

Sincerely,

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

DRT:jp

RECEIVED

AUG 05 1988



J. R. SIMPLOT COMPANY / ONE CAPITAL CENTER / 999 MAIN STREET / SUITE 1300  
P.O. BOX 27 / BOISE, IDAHO 83707 / (208) 336-2110 / TELEX 368432

CORPORATE HEADQUARTERS

January 25, 1988

Mr. David R. Tuthill, Jr., P.E.  
Manager, Western Regional Offices  
Department of Water Resources  
2735 Airport Way  
Boise, ID 83705

RE: 63-10553

Dear Mr. Tuthill:

This letter sets forth the understanding reached between J. R. Simplot Company ("Simplot") and Edward Miller ("Miller") regarding Simplot's application and Miller's subsequent protest:

1. Miller hereby withdraws his protest against Simplot's application in this matter.

2. Simplot agrees that such withdrawal by Miller shall not in any way prejudice or bar the right of Miller to raise any claim or defense in protection of any water right owned by Miller which water right is determined to have priority over 63-10553.

Sincerely,

BRUCE L. BELZER  
Assistant General Counsel

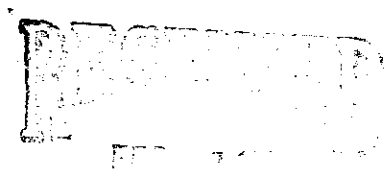
Accepted and agreed to  
this 27<sup>th</sup> day of January, 1988.

EDWARD MILLER

0009R

RECORDED

AUG 05 1988



Department of Water Resources  
Western Regional Office

CORPORATE HEADQUARTERS

January 21, 1988

Jan Shurte   
Sr. Water Resource Agent  
Department of Water Resources  
Western Region  
2735 Airport Way  
Boise, ID 83705

RE: 63-10553

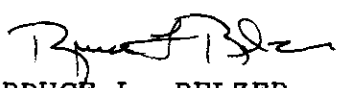
Dear Jan:

In response to your December 8, 1987 letter, I have enclosed the following:

1. Copy of the anticipated construction plan, including total facility volume. As we discussed, this plan could vary somewhat, depending upon final analysis of the geothermal resource.
2. A copy of the Deed showing ownership in Simplot.

Please advise if you need any further information in regard to your fish propagation requirements.

Sincerely,



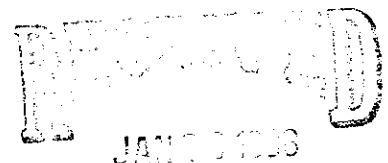
BRUCE L. BELZER  
Assistant General Counsel

BLB:ke  
Enclosures  
7602k

cc: Sot Chimonas

**MICROFILMED**

AUG 05 1988



Department of Water Resources  
Western Regional Office

## SIMPLOT AQUACULTURE GEOTHERMAL WATER UTILIZATION

The aquaculture facility will basically be utilized for warm water fish rearing. It includes a Hatchery, a Grow-out facility, a Plant-Water Treatment System Oxidation lagoons for waste water and Water reservoirs. The main facilities of hatchery, grow-out and water treatment will be solar covered as to conserve heat.

The geothermal water will be primarily used to maintain the water temperature at 80°F during the winter months, inside the solar greenhouse structures. The major use of the 2,000+gpm will be the grow-out tanks amounting to 600,000 gallons capacity. The second smaller user will be the hatchery with pond capacity of 1,860,000 gallons. The water is fed to both of these facilities with 90% recycled water from water-treatment and flows out to clarification and plant water treatment to remove BOD and nitrogenous compounds. The water is then re-used. The clarified waste is sent to oxidation lagoons for further treatment with the ability to re-use that water as well.

The volumes of the various systems are shown on the enclosed layout.

**RECEIVED**

AUG 05 1988

1070'



WATER RESERVOIR  
(I) 300' x 80' (720,000 gallons)

WATER RESERVOIR  
(II) 500' x 90' (1,340,000 gallons)

DOMESTIC  
SEWER POND  
50'

LAGOON  
(III) 300' x 150' (2,000,000 gallons)

LAGOON  
(IV) 300' x 150' (2,000,000 gallons)

PROCESS WATER  
OXIDATION  
POND 50'

LAGOON  
(II) 300' x 150' (2,000,000 gallons)

LAGOON  
(I) 300' x 150' (2,000,000 gallons)

PLANT - WATER  
TREATMENT  
(3,280,000 gallons)  
Raceways  
400' x 500'

|                 |                  |
|-----------------|------------------|
| COLD<br>STORAGE | PROCESS<br>BLDG. |
| OFFICE          |                  |

1165'

PONDS  
230' x 70' (300,000 gallons)

PONDS  
230' x 70' (300,000 gallons)

HATCHERY  
(1,860,000 gallons)  
ends  
220' x 488'

CLARIFICATION  
BLDG.  
40' x 492'

GROW-OUT  
FACILITY  
(600,000 gallons)  
Raceways  
480' x 492'

(120,000 gallons)  
Tanks

MICROFILMED

AUG 05 1988

G. W. WELLS

IRRIGATION PITCH

(TOTAL SYSTEM VOLUME:  
16,520,000 gallons.  
= 50.7 AF DER

SIMPLET AQUACULTURE  
-FACILITIES LAYOUT-  
SOT - 10/20/87  
3/8" = 50'

1200' ROAD

ARTICLES OF AMENDMENT  
to  
ARTICLES OF INCORPORATION  
of  
RICHARDSON FEED LOTS, INC.

A meeting of the shareholders of Richardson Feed Lots, Inc., a corporation duly organized under the laws of the State of Idaho, was held in Boise, Idaho, on the 7th day of July, 1971, at the hour of 2:00 o'clock p.m., pursuant to Call and Waiver of Notice of said meeting signed by the owners and holders of all of the corporate stock of said corporation.

At said meeting, all of the issued shares of capital stock of said corporation were represented in person by the owners and holders thereof. At said meeting, the shareholders of said corporation, by unanimous affirmative vote, amended the Articles of Incorporation of said corporation by changing the name of the corporation to SIMPLOT FEED LOTS, INC., and accordingly, Article I of those Articles of Incorporation was amended to read as follows:

"ARTICLE I.

The name of this corporation is: SIMPLOT FEED LOTS, INC."

IN WITNESS WHEREOF, pursuant to due authorization by resolution of the shareholders of said corporation, these presents are signed by its Joe M. Fall President and Secretary, and its corporate seal is hereunto affixed and attested by its Secretary this 7<sup>th</sup> day of July, 1971.

RICHARDSON FEED LOTS, INC.

By Joe M. Fall  
President

ATTEST:

[Signature]  
Secretary

By [Signature]  
Secretary

[Corporate Seal]

AUG 05 1988

26360-a

ARTICLES OF  
AMENDMENT OF  
RICHARDSON FEED LOTS, INC.

Amendment chg. na to SIMPLOT  
FEED LOTS, INC.

STATE OF IDAHO  
DEPARTMENT OF STATE  
Secretary's Office  
Boise, Idaho

Approved, filed, and admitted to  
the records of Articles of Incorpor-  
ation of the State of Idaho and  
certificate issued

this 9th day of  
July 1971

at 4:00 o'clock P.M.

FEES PAID

Filing \$ 10.00

Recording 2.00

Certificate 6.00

License Tax

TOTAL \$ 18.00

PETE T. CENARRUSA  
SECRETARY OF STATE

By *Margaret Lawrence*  
CORPORATION CLERK

Filed by Corporation - P.O. Box 2777, Boise, Idaho

## QUITCLAIM DEED

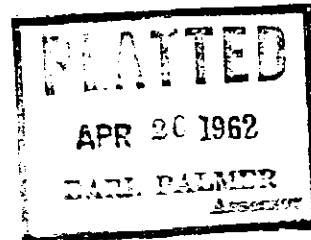
For Value Received J. W. OVERMAN and ALTA R. OVERMAN (same person as ALTA OVERMAN), husband and wife, of Caldwell, Canyon County, State of Idaho,

do hereby convey, release, remise and forever quit claim unto RICHARDSON FEED LOTS, INC., a corporation organized and existing under and by virtue of the laws of the State of Idaho, with its principal place of business at Caldwell, Canyon County, Idaho, the following described premises, to-wit:

A strip of land 113 feet in width off the South side of the Northeast Quarter of the Northeast Quarter of Section 19, Township 4 North, Range 3 West of the Boise Meridian, more particularly described as follows, to wit:

Beginning at the Southwest corner of the Northeast Quarter of the Northeast Quarter of said Section 19; running thence North 113 feet; thence East to the East line of said Section 19; thence South 113 feet to the Southeast corner of the Northeast Quarter of the Northeast Quarter of said Section 19; thence West to the point of beginning;

Together with all water, water rights, ditches and rights of way for ditches appurtenant thereto or in anywise appertaining;



together with their appurtenances.

Dated: March 19, 1962.

*J. W. Overman*  
J. W. Overman

*Alta R. Overman*  
Alta R. Overman

STATE OF IDAHO, COUNTY OF CANYON  
On this 19 day of March, 1962,  
before me, a notary public in and for said State, personally  
appeared J. W. OVERMAN and ALTA R.  
OVERMAN (same person as ALTA  
OVERMAN), husband and wife,

known to me to be the persons whose names are  
subscribed to this instrument, and acknowledged to  
me that they executed the same.

*Wayne E. Davis*  
Notary Public  
Residing at Caldwell, Idaho  
Comm. Expires 6/1/65

STATE OF IDAHO, COUNTY OF Canyon  
I hereby certify that this instrument was filed for record at  
the request of J. R. Simplet Co.  
at 28 minutes past 1 o'clock P. m.,  
this 18 day of April,  
1962, in my office, and duly recorded in Book 277  
of Deeds at page 419

Ex-Officio Recorder

By *Lavona Sayre* Deputy  
Fees \$ 1.20  
Mail to: Bank of Idaho Bldg  
Boise Idaho.

MICROFILMED

AUG 05 1988

REVENUE STAMPS

J. W. Overman  
et al  
to  
Richardson Feed  
Lots, Inc

g.c

|              |      |
|--------------|------|
| Recorded     |      |
| Compared     |      |
| Ind. Direct  | B.N. |
| Ind. Reverse | B.N. |
| Bl. & Pg. B. | B.N. |
| Bk. & Pg. R. | B.N. |
| Assigned     |      |
| Released     |      |

STATE OF IDAHO  
County of Canyon } ss.

I hereby certify that this instrument  
was filed for record at the request of

J. R. Simplot Co.  
APR 13 1962

at 28 minutes past 2 o'clock P. M.  
in my office, and duly recorded in book

277 of Deeds

at page 419

S. S. FOOTE,  
Ex Officio Recorder

By Lavonia Sayre, Deputy  
Fee \$ 1.20

RECORDED

AUG 15 1962

7/6

Inst. # 664413

THIS INDENTURE, Made this 19th day of March

in the year of our Lord one thousand nine hundred and sixty-two, between  
J. W. OVERMAN and ALTA R. OVERMAN (same person as ALTA OVERMAN),  
husband and wife,

of Caldwell, County of Canyon, State of Idaho

the parties of the first part, and RICHARDSON FEED LOTS, INC., an Idaho corporation, with its principal place of business in Caldwell,

~~xxx~~, County of Canyon, State of Idaho

the party of the second part.

WITNESSETH, That the said parties of the first part, for and in consideration of the sum of  
TEN AND NO/100 (\$10.00)----- DOLLARS,  
lawful money of the United States of America, and other good and valuable consideration  
to them in hand paid by the said  
part y of the second part, the receipt whereof is hereby acknowledged, have granted, bargained  
and sold, and by these presents do ~~grant~~ <sup>grant</sup>, bargain, sell, convey and confirm unto the said party  
of the second part, and to its ~~heirs~~ <sup>successors</sup> and assigns forever, all of the following described real estate,  
situated in, County of Canyon, State of Idaho, to-wit:

The Northeast Quarter of the Northeast Quarter in Section 19,  
Township 4 North, Range 3 West of the Boise Meridian, excepting  
the South 113 feet;

Subject to easement to J. R. Simplot Company, a Nevada corporation, dated April 1, 1959, and recorded April 13, 1959, in  
Book 40 Miscellaneous, page 644, in the office and records of  
the County Recorder, Canyon County, Idaho, and subject also to  
easement to J. R. Simplot Company, a Nevada corporation, said  
easement being dated August 30, 1960, and recorded September 6,  
1960, in Book 42, Miscellaneous, page 392, in the office and  
records of the County Recorder, Canyon County, Idaho;

Reserving unto the grantors one half of all oil, gas and  
minerals, except sand and gravel, located on, in or under the  
above-described real property;

Together with all water, water rights, ditches and rights of  
way for ditches appurtenant thereto or in anywise appertaining;

Subject to all state and county taxes and all taxes or assessments of whatsoever kind or nature levied or assessed against  
the said premises for the year 1962 and subsequent thereto;

RECORDED

AUG 05 1988

TOGETHER, With all and singular the tenements, hereditaments and appurtenances thereunto  
belonging or in anywise appertaining, the reversion and reversions, remainder and remainders, rents,  
issues and profits thereof; and all estate, right, title and interest in and to the said property, as well  
in law as in equity, of the said parties of the first part.

TO HAVE AND TO HOLD, All and singular the above mentioned and described premises, together  
with the appurtenances, unto the party of the second part, and to its ~~heirs~~ <sup>successors</sup> and assigns forever,  
and the said parties of the first part, and their heirs, the said premises in the quiet and peaceable  
possession of the said party of the second part, its ~~heirs~~ <sup>successors</sup> and assigns, against the said parties  
of the first part, and their heirs, and against all and every person and persons whomsoever, lawfully  
claiming or to claim the same shall and will WARRANT and by these presents forever DEFEND.

664413

FILED

JUL 15 10 30 AM '71

WALTER FRY  
CANYON COUNTY RECORDER

By Marta Weymouth

RECORDED

AT THE REQUEST OF

Ronald J. Overman

IN

PG

OF

Deeds

FEE 2.00

J. W. Overman  
check aka

To  
Richardson Feed  
Lot, Inc.

M. D.

Box 2777

Davis, Idaho 83701

IN WITNESS WHEREOF, The said parties of the first part have hereunto set their hands and seals the day and year first above written.

SIGNED, SEALED AND DELIVERED IN PRESENCE OF

J. W. Overman [Seal]  
J. W. Overman

Alta R. Overman [Seal]  
Alta R. Overman

[Seal]

[Seal]

STATE OF IDAHO,

COUNTY OF CANYON

ss.

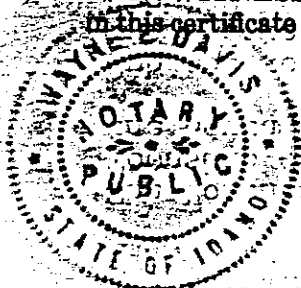
On this 19 day of March in the year 1962, before me

WAYNE E. DAVIS, a Notary Public

in and for said State, personally appeared J. W. OVERMAN and ALTA R. OVERMAN  
(same person as ALTA OVERMAN), husband and wife,

known to me to be the persons whose names are subscribed to the within instrument, and acknowledged to me that they executed the same.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal, the day and year in this certificate first above written.



Wayne E. Davis

Notary Public for the State of Idaho,  
Residing at Caldwell, Idaho.

MICROFILMED

AUG 05 1988

No. \_\_\_\_\_

WARRANTY DEED

— TO —

Dated \_\_\_\_\_, 19\_\_\_\_

STATE OF IDAHO,

ss.

COUNTY OF \_\_\_\_\_

I hereby certify that this instrument was filed  
for record at request of \_\_\_\_\_

at \_\_\_\_\_ minutes past \_\_\_\_\_

o'clock \_\_\_\_\_ M., this \_\_\_\_\_ day

\_\_\_\_\_ A. D. 19\_\_\_\_

in my office, and duly recorded in Book \_\_\_\_\_

of \_\_\_\_\_ at page \_\_\_\_\_

Ex-Officio Recorder.

By \_\_\_\_\_ Deputy.

Fees, \$ \_\_\_\_\_

Mail to Box 2777  
Davis, Idaho 83701

CANYON PRINTERS, CALDWELL, IDAHO 83724



DPT File  
63-10553

J. R. SIMPLOT COMPANY / ONE CAPITAL CENTER / 999 MAIN STREET / SUITE 1300  
P.O. BOX 27 / BOISE, IDAHO 83707 / (208) 336-2110 / TELEX 368432

CORPORATE HEADQUARTERS

January 11, 1988

Mr. Edward Miller  
P.O. Box 52  
Caldwell, Idaho 83606

Dear Mr. Miller:

We are in receipt of a copy of a protest filed by you against our Application to the Department of Water Resources for geothermal water near Caldwell.

We would like to take this opportunity to clarify some items concerning our application. As you can see by the enclosed copy of our application, it is specifically asking for geothermal water use which is expected to be found at 800 to 1,200 feet of depth. According to available hydrological information all the fresh water wells in the area are in a totally different aquifer at 200 to 400 feet of depth. Therefore, our potential future use of the deeper warm water aquifer will not affect your cold water source. In addition, the Department of Water Resources requires that we seal the casing and well hole with concrete so as to not use any of the other aquifer above the warm water one, and to prevent commingling. I have enclosed the copy of their letter to us stating this, which will be a condition of our permit.

I would like to further explain that our objective with this permit application is to find and use geothermal water, at least above 100°F that can be utilized for warm water fish farming that the company has been investigating.

I hope that this explanation is sufficient to have you withdraw your protest with the Department of Water Resources, so as to avoid having to go to a conference and/or hearing to re-state and re-explain all of this again. Participants in hearings generally have to present hydrological evidence, which is usually expensive to all parties involved. I would be glad to supply you with any additional information you need or answer any questions you may have. You can call me in Boise at 336-2110 from 8:00 a.m. to 5:00 p.m. or write to me at the above address.

Your cooperation, with a letter to the Department of Water Resources withdrawing your protest, would be greatly appreciated.

Sincerely,

*Sot Chimonas*

Sot Chimonas  
Manager, New Ventures

AUG 05 1988

JAN 18 1987

CC: Dept. of Water Resources ✓

SC/SM

Department of Water Resources  
Western Regional Office

SPECIAL NOTE: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

PROTEST INFORMATION SHEET

Protestant - Name(s)

Edward Miller *→ Withdrawn*

Address P.O. Box 52, Caldwell, ID 83606

Attorney - Name & Address \_\_\_\_\_

Date Filed 12/21/87 Protest Date 1/4/88

Issues \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Applicant - Attorney - Name & Address \_\_\_\_\_

Dates: \_\_\_\_\_

Acknowledgement letters: \_\_\_\_\_

Hearing Notice: \_\_\_\_\_

Hearing Date: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Other: \_\_\_\_\_

**MICROFILMED**

AUG 05 1988

Protest Information submitted in Computer (following hearing): \_\_\_\_\_



State of Idaho  
**DEPARTMENT OF WATER RESOURCES**  
Western Region

CECIL D. ANDRUS  
Governor

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

A. KEITH HIGGINSON  
Director

December 29, 1987

J. R. Simplot Company  
Attn: R. N. Graves  
P.O. Box 27  
Boise, ID 83707

Re: Application for Permit No. 63-10553

Dear Mr. Graves:

Enclosed is a copy of a protest(s) filed against the issuance of a permit pursuant to your Application No. 63-10553. The Department suggests you contact the protest(s) and to attempt to resolve the protest(s) and to attempt to resolve the protest(s).

If this office has not been advised within twenty (20) days that the protest(s) has been resolved, the matter will be scheduled for conference and/or hearing. At such a conference and/or hearing, the following are the principle items the Department can consider in either approving or denying the application for permit (Section 42-203, Idaho Code):

1. Will the proposed use reduce the quantity of water under existing water rights?
2. Is the proposed water supply insufficient for the purposes intended?
3. Is the application made in good faith or for delay or speculative purposes?
4. Has the applicant sufficient financial resources which to complete the project?
5. Will the proposed use under this permit conflict with the local public interest?

If this office can be of further assistance, please contact us.

Sincerely,

*Evan E. Ballou*  
for DAVID R. TUTHILL, JR., P.E.  
Western Regional Manager

DRT:jp

Enclosure:

**MICROFILMED**

AUG 05 1988



CECIL D. ANDRUS  
Governor

State of Idaho  
**DEPARTMENT OF WATER RESOURCES**  
Western Region

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

December 29, 1987

R. KEITH HIGGINSON  
Director

Edward Miller  
P.O. Box 52  
Caldwell, ID 83606

Re: Application for Permit No. 63-10553, J. R. Simplot Co.

Dear Mr. Miller:

This office acknowledges receipt of your protest to the issuance of a permit pursuant to the above referenced application(s). The Department suggests you contact the applicant(s) directly in an effort to determine what is proposed by the application(s) and to attempt to resolve the protest.

If this office has not been advised within twenty (20) days that the protest has been resolved, the matter will be scheduled for conference and/or hearing. At such a conference and/or hearing, the following are the principle items the Department can consider in either approving or denying an application or permit (Section 42-1203, Idaho Code):

1. Will the proposed use reduce the quantity of water under existing water rights?
2. Is the proposed water supply insufficient for the purposes intended?
3. Is the application made in good faith or for delay or speculative purposes?
4. Has the applicant sufficient financial resources with which to complete the project?
5. Will the proposed use under this permit conflict with the local public interest?

If this office can be of further assistance, please contact us.

Sincerely,

*Erwin C Ballou*

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

DRT:jp

**MICROFILMED**

AUG 05 1988

Edward Miller  
P.O. Box 52 Ph. 459-7762  
CALDWELL, IDAHO 83606

12-21-87

Water Resource Board  
2735 Airport Way  
Boise, Idaho 82705

RECEIVED  
DEC 18 1987

Department of Water Resources  
Western Regional Office

To Whom It May Concern.

I was in your office approximately 3 years ago and mentioned the number of wells in this area that were going dry due to Simplex excessive pumping. You people told me you had told Simplex not to drill anymore wells.

Now they are drilling about 200 feet from my house, about 250 feet from my well. I called your office, and was told this would not affect my well, as they were going way deeper.

I was also informed they were going to drill another exploratory well.

AUG 03 1988

I was also informed  
today was the deadline to  
file a complaint.

I am delivering this in  
person due to the possibility  
of it being lost or held  
up in the mail.

Here's hoping for consideration  
in this matter

Edward Miller

Edward Miller  
P.O. Box 52 Ph. 459-7762  
CALDWELL, IDAHO 83606

RECEIVED  
DEC 18 1987

Department of Water Resources  
Western Regional Office

MICROFILMED

AUG 25 1983

December 21, 1987

To Whom It May Concern:

I wish to protest the filing of Applicaton for Permit  
No. 63-10553 in the name of J. R. Simplot Co. For the reason(s)  
of the concern of them drying up  
my well.

name -  
Address )-

Edward Miller  
P.O. Box 52  
Caldwell, Idaho 83606

**MICROFILMED**

AUG 05 1988

**RECEIVED**  
DEC 21 1987

Department of Water Resources  
Western Regional Office

NOTICE OF AMENDED APPLICATION FOR PERMIT

Notice is hereby given that Applicant No. 63-10553 in the name of J. R. Simplot Co. was filed on 11/2/87 for the diversion of 5.0 cfs from a groundwater source with a point of diversion within the SENENE, S. 19, T. 4N., R. 3W., B.M. to be used for Industrial Heating Purposes from 1-1 to 12-31 within portions of the NENE, Sec. 19, Twp. 4N., Rge. 3W., B.M. The applicant now proposes to amend the application by changing the nature of use to Industrial Heating and Fish Propagation for a total of 5.0 cfs.

Any protest against the approval of the proposed amendment must be filed with the Department of Water Resources, 2735 Airport Way, Boise, ID 83705 on or before January 4, 1988.

R. Keith Higginson, Director

Published in the Press-Tribune on 12/16 & 12/23/87

NOTIFIED

AUG 05 1988



State of Idaho  
**DEPARTMENT OF WATER RESOURCES**  
Western Region

CECIL D. ANDRUS  
Governor

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

R. KEITH HIGGINSON  
Director

December 24, 1987

J. R. Simplot Company  
Attn: R. N. Graves  
P.O. Box 27  
Boise, ID 83707

Re: Application for Permit No. 63-10553

Dear Water Right Applicant(s):

The Department of Water Resources acknowledges receipt of your water right application for permit. The application has been assigned identification no. 63-10553. Please refer to this number in all further correspondence.

This office is currently in the process of advertising the application in the Press Tribune on 12/2 and 12/9/87. The advertisement will be published for two weeks, and a period of ten days following the second publication will be allowed for the submittal of protests.

If the application is protested, you will be sent a copy of the protest. The protest must be resolved before the application is approved or denied. If the protest is not resolved voluntarily, this Department will conduct a conference and/or hearing on the matter.

If the application is not protested, it will be forwarded to our state office in about five weeks. State office personnel will conduct a complete review prior to final processing of the application and will notify you of the outcome of this review. When a permit is issued, you will be sent a copy. A typical processing time for an unprotested application is about eight weeks.

Enclosed please find your receipt no. 43992 for the amount of \$ 125.00.

Please feel free to contact this office if you have any questions regarding this procedure.

Sincerely,

*David R. Tuthill*  
DAVID R. TUTHILL, JR., P. E.  
Manager, Western Regional Office  
AUG 05 1988

DRT:jp

Enclosure:



State of Idaho  
**DEPARTMENT OF WATER RESOURCES**  
Western Region

CECIL D. ANDRUS  
Governor

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

R. KEITH HIGGINSON  
Director

December 24, 1987

Stacy Gebhards  
Regional Supervisor  
Idaho Department of Fish & Game  
Region 3  
Statehouse  
Boise, ID 83720

Re: Applications for Permit Nos. 51-7298 in the Name of AquaTrop, Inc., and  
63-10553 in the Name of J. R. Simplot Company

Dear Mr. Gebhards:

Enclosed is a copy(s) of the above referenced application(s) for permit which may be of interest to your agency. Please review the application(s) and submit any comments you may have.

This office normally completes the processing of an application within a six-week period and is required to take final action shortly thereafter, however, if your agency desires to file a formal protest against the approval of this application(s), your written protest must be received in this office by December 21, 1987.

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

Sincerely,

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

DRT:jp

Enclosure (s)

**RECEIVED**

AUG 03 1988



State of Idaho

# DEPARTMENT OF WATER RESOURCES

Western Region

CECIL D. ANDRUS  
Governor

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

R. KEITH HIGGINSON  
Director

December 8, 1987

Bruce Belzer  
J. R. Simplot Co.  
P.O. Box 27  
Boise, ID 83707

Dear Mr. Belzer:

We will be re-advertising Application for Permit No. 63-10553 in the Press Tribune next Wednesday, December 16, showing the addition of the fish propagation use. However, prior to final processing of this application more information will be required.

Enclosed is a copy of the Department's interdepartmental memo concerning the requirements for fish propagation applications. For those applications over 1.0 cfs, the facility volume will need to be calculated based on pond sizes, etc. We are aware that this information will be compiled based on the water quality found after the well is drilled, therefore, we will hold the application until this information is available and forwarded to us.

If you have any questions concerning these requirements, please feel free to contact this office.

Sincerely,

JAN SHURTE  
Sr. Water Resource Agent

JS:j  
Enclosure

**MICROFILMED**

AUG 05 1988



J. R. SIMPLOT COMPANY / ONE CAPITAL CENTER / 999 MAIN STREET / SUITE 1300  
P.O. BOX 27 / BOISE, IDAHO 83707 / (208) 336-2110 / TELEX 368432

CORPORATE HEADQUARTERS

December 2, 1987

Ms. Jan Shirt  
Department of Water Resources  
Western Region  
2735 Airport Way  
Boise, ID 83705

RE: 63-10553

Dear Jan:

As we discussed, I've enclosed a \$20 check to cover the amendment fee on this Application. Specifically, I was concerned about items 8.e. and 12 which perhaps could be construed to limit an application to nonconsumptive use only. My suggestion would be to add the following sentence to each item: "In the alternative, the geothermal water may be used as an aquaculture medium if the quality proves satisfactory." However, if you feel any other changes or additions are desirable to clarify this second alternative, please feel free to include those as well.

Please call me if you have any questions. I appreciate your assistance in this matter. Thank you.

Sincerely,

BRUCE L. BELZER  
Assistant General Counsel

0889v

Enclosure

**RECEIVED**

AUG 05 1988

**RECEIVED**  
DEC 8 1987

Department of Water Resources  
Western Regional Office

FROM

Jan J.

INTER-DEPARTMENT MEMO — 1

TO

App. for Permit No. 63-10553

DATE

12/1/87

SUBJECT

Amending app.

MICROFILMED

AUG 05 1988

I spoke w/ Bruce Selzer, attorney for  
 Simplot by telephone & he stated that  
 they may use the water to grow fish in  
 if all works out. I told him they  
 need to add it as a use with the  
 same total & he will send in the \$20  
 amending fee.

Jan J. Hunt

SIGNATURE

## INTER-DEPARTMENT MEMO — 1

FROM Brad Dingee

DATE 11/30/87

TO 63-10553

## SUBJECT

Per telephone conversation with John Beal,  
the drilling permit for this well will be issued  
within a few days (i.e. before the water  
right is approved).

INDEXED

AUG 05 1988

Brad

SIGNATURE

STATE OF IDAHO  
Department of Water Resources

#350

46013

Boise, Idaho, 11/19, 19 87

RECEIVED  
FROM

J. R. Simplet Co. of Boise, ID \$ 100.00  
One hundred & no/100 DOLLARS

FOR

|                      |    |            |   |
|----------------------|----|------------|---|
| <u>Well drilling</u> | \$ | <u>100</u> | - |
| <u>permit</u>        | \$ |            |   |
|                      | \$ |            |   |
|                      | \$ |            |   |
|                      | \$ |            |   |
| TOTAL . . .          | \$ | <u>100</u> | - |

CK. No. 92-6  
1241

Jan Thute

MICROFILMED

AUG 05 1988

ACTION OF IDWR

( ) Approved ( ) Denied

The approval of this permit authorizes the construction of a well as described on this application subject to the conditions on this permit.

GENERAL CONDITIONS:

1. The well must be constructed in compliance with the applicable statutes, specific conditions of approval shown on the water right permit, injection well permit, transfer or amendment and the rules and regulations of the Department for water appropriation, injection wells and well construction standards.
2. This drilling permit is valid for two (2) months from its date of issuance for the start of construction and is valid for one (1) year from the date of issuance for completion of the well unless an extension has been granted.
3. The permit holder or his representative shall notify the Department ten (10) days prior to the start of construction unless good cause for later notification can be shown.
4. The well shall be constructed by a driller currently licensed in the State of Idaho who must maintain a copy of the drilling permit at the drilling site.
5. Issuance of this drilling permit does not authorize trespass on the land of another party.
6. This permit does not constitute other local, county, state or federal approvals which may be required for construction of a well.

SPECIFIC CONDITIONS:

Dated this \_\_\_\_\_ day of \_\_\_\_\_, 19\_\_\_\_.

Signed \_\_\_\_\_

Title \_\_\_\_\_

Received by [Signature] Fee 100.00 Date 11/19/87

Receipt No. 46013 Construction start date \_\_\_\_\_

Construction start extension to \_\_\_\_\_

Extension approved by \_\_\_\_\_

**MICROFILMED**

AUG 05 1988

CORPORATE HEADQUARTERS

**RECEIVED**  
NOV 18 1987

Department of Water Resources  
Western Regional Office  
November 18, 1987

Department of Water Resources  
Western Region  
2735 Airport Way  
Boise, ID 83705

Attention: John E. Beal

RE: Proposed Well For Geothermal Aquaculture

Dear John:

As we discussed today, please consider this letter as Simplot's request to process the recently submitted Application for Drilling Permit, separate from the Application for Water Permit which we submitted at the same time. Both of these applications were submitted to the State Office on October 30, 1987.

We anticipate needing up to one month to complete the drilling, and would like to commence as soon as possible to take advantage of what remains of the fall weather. We need to perform extensive tests on the resource to determine engineering and economic feasibilities of the project in time to bring it on line next summer. We recognize and understand that the well would have to be treated as "exploratory" until such time as a water permit is granted. We further recognize and understand that we have no assurances that a water permit will be granted.

In the event you issue the Drilling Permit, we anticipate test pumping for a period probably between two weeks and one month, although we can't be certain until we evaluate the resource. We will comply with all applicable discharge requirements.

Additionally, as pointed out in our discussion the well will be overbored and grouted, rather than driven.

**MICROFILMED**

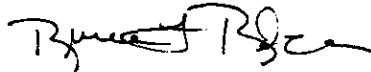
AUG 05 1988

Department of Water Resources  
November 18, 1987  
Page 2

I have enclosed the \$100 application fee which I inadvertently failed to include in my October 30th letter.

I hope this letter and our application contain sufficient information to enable you to expedite our application. We will be in a position to deliver the bond as soon as the permit is authorized. Please call me if you have any questions. Thank you for your attention and cooperation in this matter.

Sincerely,



BRUCE L. BELZER  
Assistant General Counsel

0856v

Enclosure

RECEIVED

AUG 05 1988

NOTICE OF APPLICATION FOR WATER RIGHT

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

The permit(s) will be subject to all prior water rights. Protests must be filed with the Director, Dept. of Water Resources, Western Region, 2735 Airport Way, Boise, Idaho 83705 on or before

R. KEITH HIGGINSON, Dir.

**MICROFILMED**

Published 12/2 & 12/9/87.

AUG 05 1988

63-10553

J. R. SIMPLOT CO.,  
C/O: R. N. Graves  
P.O. BOX 27, BOISE, ID 83707

Source: GROUNDWATER

Diversion Pt: SENENE Sec 19 T 04N R 03W

Use: INDUSTRIAL (5.0 CFS)

Date Filed: 11/02/1987

In: NENE Sec 19 T 04N R 03W

RECEIVED  
WATER DIVISION

AUG 05 1983



J. R. SIMPLOT COMPANY / ONE CAPITAL CENTER / 999 MAIN STREET / SUITE 1300  
P.O. BOX 27 / BOISE, IDAHO 83707 / (208) 336-2110 / TELEX 368432

CORPORATE HEADQUARTERS

**RECEIVED**  
NOV 02 1987

October 30, 1987

Department of Water Resources

State of Idaho  
Department of Water Resources  
Statehouse Mail  
Boise, ID 83720

**RECEIVED**  
NOV 4 1987

Department of Water Resources  
Western Regional Office

Gentlemen:

I have enclosed the following in conjunction with a proposed new low temperature geothermal well we hope to drill near Caldwell, Idaho:

1. Application for Drilling Permit with supporting information regarding details of proposed well.
2. Application for Permit pertaining to the same well.
3. A check in the amount of \$125 for the necessary filing fees.

We are very anxious to commence this project and would appreciate any help you can give in expediting these applications. Please advise if you need any further information.

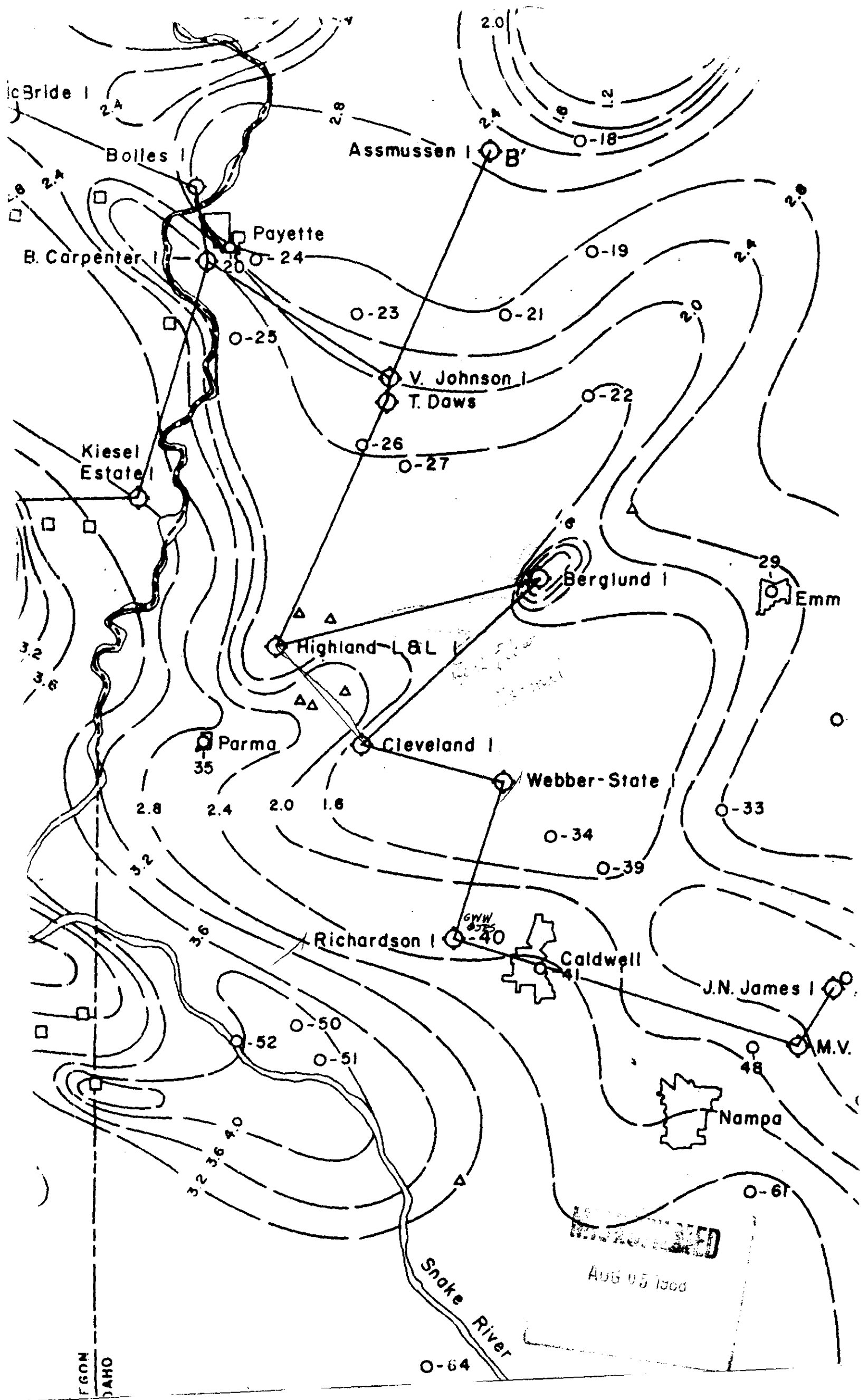
Sincerely,

BRUCE L. BELZER  
Assistant General Counsel

0772v

Enclosures

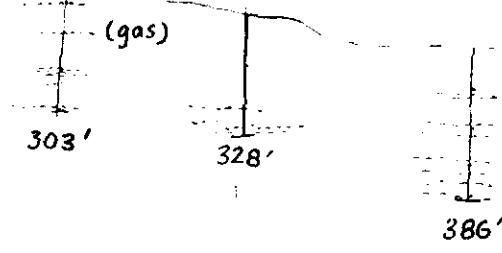
**RECEIVED**  
AUG 05 1988



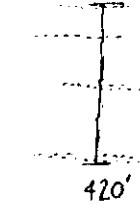
Greenleaf Village Unincorporated. 1967  
 12" well, 120 gpm  
 60°F  
 (gas)

Greenleaf Water District 1971  
 100 gpm

Charles Sleight 1979  
 6" domestic well  
 35 gpm



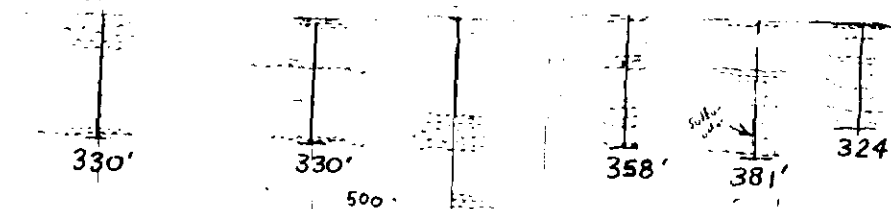
George Wright 1967  
 4" domestic well  
 Artesian flowing  
 18 gpm  
 70°F



Richardson Feed Lot 1966  
 12" well  
 Artesian flowing 200 gpm  
 69°F?

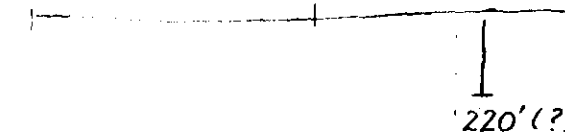
Richardson No. 1 1977  
 28" well  
 discharge not given

Uroco Oil & Gas. I.R. Simplot, Co. Feedlot 1985  
 16" well  
 tested 3150 gpm



Caldwell Municipal Airport  
 Check depth, I suspect it is deeper than reported 220'

Caldwell Municipal Park Well  
 150 gpm (flowing?) 82°F



College of Idaho Campus

Caldwell City Well  
 800 gpm (pumped?)



TD 1300  
 major flow 48°C (118°F) Approx Sea Level

flow from 1820 58°C (136°F)

Bottom Hole Temp (8/17/55, 125°F) during drilling.

SCALE: 1" = 500'

Greenleaf Village  
Unincorporated.  
1967  
12" well, 120gpm  
60°F

Greenleaf Water District  
1971  
100gpm

Charles Sleight  
1979  
6" domestic well  
35 gpm

George Wright  
1967  
4" domestic well  
18 gpm  
70°F  
Artesian flowing

Richardson Feed Lot  
1966  
12" well  
Artesian  
flowing 200gpm  
69°F?

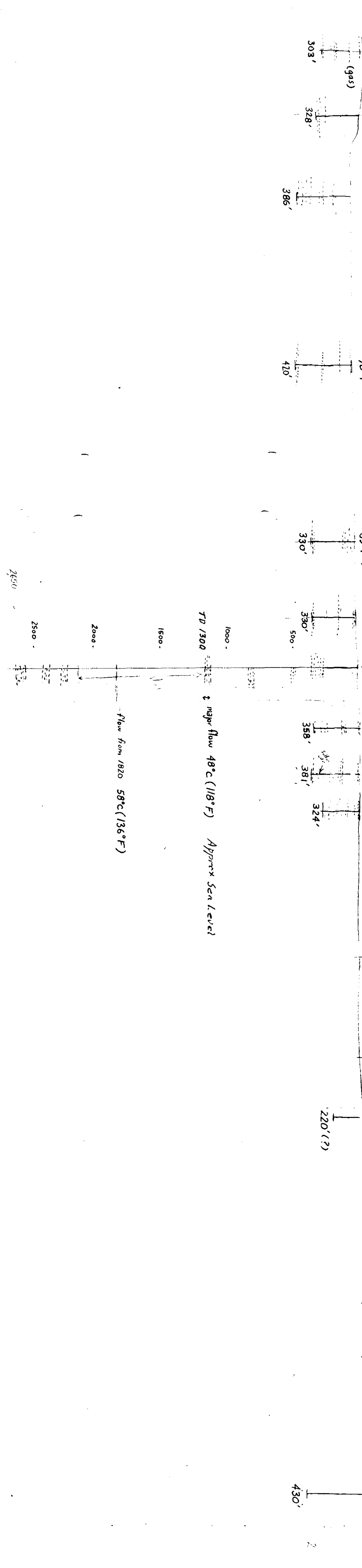
Richardson No. 1  
1977  
20" well  
Artesian  
flowing 360gpm

L.R. Simplot, Co. Feedlot  
1957  
16" well  
1500 gpm  
1985  
16" well  
tested 3150 gpm

Caldwell Municipal Airport  
Park Well  
150 gpm (flowing?) 82°F  
Check depth, I suspect it is deeper than reported 220'

College of Idaho campus

Caldwell City Well  
800 gpm (pumped?)  
68°F



3000 -  
3037'

Bottom Hole Temp (8/17/55, 125°F)  
during drilling.

SCALE: 1" = 500'

IDAHO  
CANYON COUNTY  
CALDWELL AREA (W)

PETROLEUM INFORMATION  
DENVER CASPER  
ROCKY MOUNTAIN  
OIL INFORMATION

Twp 4n-3w  
Section 19  
c se nw

OPR: Croco Oil & Gas

WELL #: 1 Richardson ✓

ELEV:

DSTS. & CORES:

SPUD: 8-2-55

COMPL: 10-22-55

\*TOPS: Log-Sample

Swbd mud. Perf 3000-06. Swbd, flowed est 30-50 MCFGPD.

TD: 3048

PB:

CSG:

10-3/4" @ 183 w/146

PERF: 5 1/2" @ 2975

No tops reported.

PROD. ZONE:

INIT. PROD: D & A

12-12-55

\*For Electric Logs on Rocky Mountain Wells—Ask Us!

5" Dip  
5 1/2" D.  
5" D.

IDAHO  
CANYON COUNTY  
WILDCAT

PETROLEUM INFORMATION  
DENVER CASPER  
ROCKY MOUNTAIN  
OIL INFORMATION

Twp 5n-3w  
Section 16  
se sw

OPR: El Paso Natural Gas

WELL #: 1 Weber State

ELEV: 2443 Gr

DSTS. & CORES:

SPUD: 3-15-56

COMPL: 4-1-56

\*TOPS: Log-Sample

Crd 2670-90, rec 14-6 sd, salt & pepper, fine grained, friable, shaley, 8 grey sd.

TD: 4528

PB:

CSG:

8-5/8" @ 212 w/130

DST 2650-90, 45 min.

PERF:

SI 15 min, good blow,

rec 2290 fresh wtr,

FP 400-1020#, SIP

1070#, HP 1380#.

DST 2990-3040, 40

min, SI 15 min, weak

blow, rec 110 drlg mud,

FP 235#, SIP 595-

1625#, Crd 3685-94,

rec 1 sd, grey, wtr.

Idaho surface to TD.

PROD. ZONE:

INIT. PROD: D & A

65324

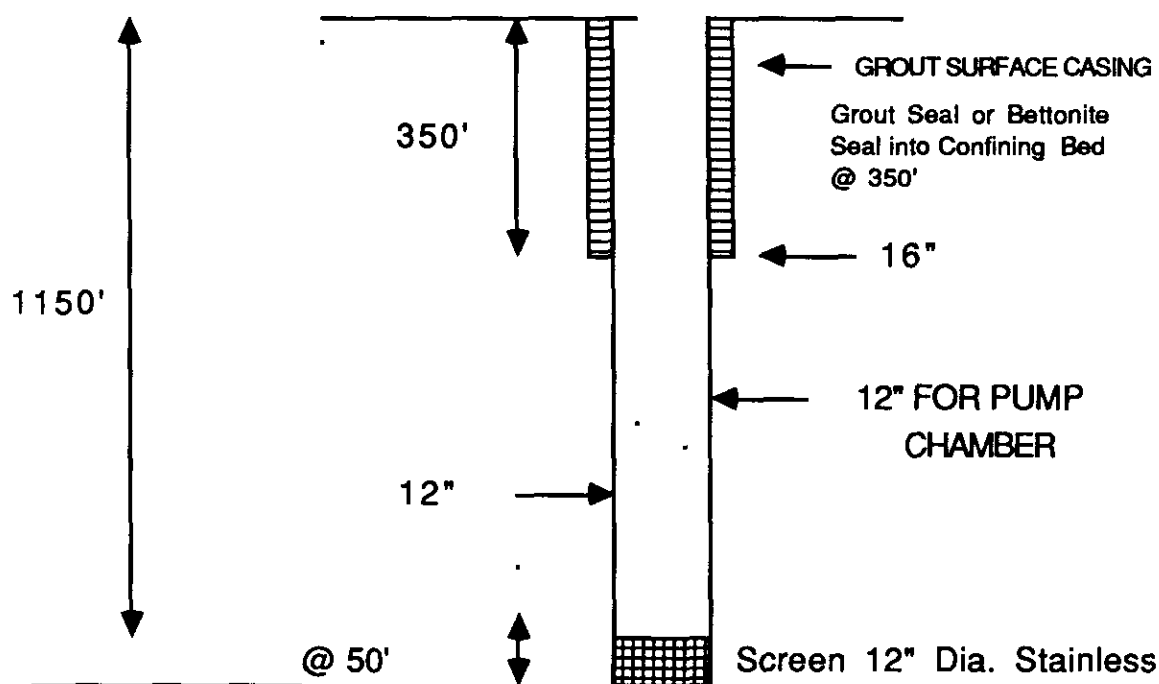
\*For Electric Logs on Rocky Mountain Wells—Ask Us!

RECORDED

AUG 05 1968

Revised 10/29/87  
R/K

## CHLOWELL GEOTHERMAL WATER WELL CASING DIAGRAM



@ = Approximate

### DRILLING PROCEDURE

#### Per Foot

1. Drill and Drive temporary 20 inch casing thru surface sand and gravel T.D. 60 ft.
2. Drill and Drive 16 inch casing from collar to 350 feet T.D.
3. Drill and Drive 12 inch casing from 350 feet to 1150 feet T.D.

#### Lump Sum

1. Grout between 16 inch and 12 inch casing @ 350 foot interval.
2. Packer between 16 inch and 12 inch casing.

#### Per Foot

1. Install 50 feet of 12 inch screen at 1100 to 1150 foot interval.

#### Pump Test

1. Install and remove test pump @ approximately 400 feet and run 24 hour pump test.

**MICROFILMED**

AUG 05 1988

## **DATA NEEDS**

1. GEOLOGIC SAMPLES EVERY 5 FEET AND AT LITHOLOGIC CHANGES.
2. DRILLING RATE (FT/HR) PLUS WEIGHT ON BIT WITH PENETRATION RATE. GEOLOGRAPH.
3. WATER LEVEL IN WELL DURING DRILLING - PARTICULARLY NOTING DEPTHS OF WATER LEVEL CHANGES.
4. WATER TEMPERATURE WITH DEPTH DURING DRILLING.
5. WATER SAMPLES WITH DEPTH DURING DRILLING.
6. WATER YIELD WITH DEPTH DURING DRILLING.
7. NOTE THE WATER LEVEL WHEN CHANGING STEEL, ALSO WATER TEMPERATURE WHEN FLOWING WATER OUT OF HOLE. ALSO GET WATER SAMPLES WHEN CHANGES ARE NOTED.
8. MEASURE THE DISCHARGES USING V NOTCH WIER OR BUCKET AND STOPWATCH. ALSO STATIC WATER LEVEL IN WELL AT SHIFT CHANGES.

## **EQUIPMENT NEEDS**

1. AIR ROTARY RIG WITH TOP HEAD DRIVE OR REVERSE CIRCULATION. (NEEDED TO ALLOW HYDROLOGIC DATA COLLECTION WITH DEPTH AND FOR ADVANCEMENT OF CASING.)
2. DRILLING CAPABILITY TO 1300 FEET WITH DRILL HOLE TO SET CASING ACCORDING TO CASING DIAGRAM.
3. DRILLING CAPACITY (PRESSURE AND VOLUME) TO DRILL TO REQUIRED DEPTH WITH WATER LEVEL @ 20 FEET ABOVE LAND SURFACE AND MAXIMUM WELL YIELD OF 2000 gpm TO 1300 FEET TD.
4. PENETRATION GAUGE ON THE RIG REQUIRED.

**RECEIVED**

AUG 05 1968

**PUMP TEST:**

1. Install screen at interval of confined aquifer and run 24 hour pump test to determine transmissivity and measure draw down at appropriate intervals in time. Provide relevant data to construct draw down curves.
2. Provide necessary equipment for pump testing including pump capable of lifting from 1300 feet. Artesian flow is approximately 12 feet at surface.
3. Provide all casing according to the casing diagram. Also provide cement or bentonite as required.

RECEIVED

APR 15 1998

[illegible]

|        |    |       |          |                    |   |   |            |                |
|--------|----|-------|----------|--------------------|---|---|------------|----------------|
| MC SHA |    | 04    | 63-7678  | SIMPLOT FEED LOTS  | C | 5 | 09-15-1972 | GROUNDWATER    |
| MS1500 | 35 | 01.43 | 63-2239  | BALLENTYNE         | C | D | 10-26-1972 | GROUNDWATER    |
| MS1500 | 07 | 01    | 63-0137A | PIONEER DIXIE DITC | C | D | 05-10-1914 | UNNAMED STREAM |
| MS1500 | 40 | 01.43 | 63-0137A | PIONEER DIXIE DITC | C | D | 06-01-1969 | NOISE RIVER    |
| MS1500 | 08 | 01    | 63-0137A | PIONEER DIXIE DITC | C | D | 06-01-1969 | NOISE RIVER    |
| MS1500 | 08 | 01    | 63-0222B | BLACK              | C | D | 06-01-1969 | NOISE RIVER    |
| MS1500 | 01 |       | 63-0137A | SMITH              | C | D | 06-01-1969 | NOISE RIVER    |
| MS1500 | 04 |       | 63-7678  | SIMPLOT FEED LOTS  | C | D | 10-26-1972 | GROUNDWATER    |
| MS1500 | 01 |       | 63-0137A | PIONEER DIXIE DITC | C | D | 06-01-1969 | NOISE RIVER    |
| MS1500 | 02 | 01    | 63-0137A | PIONEER DIXIE DITC | C | D | 06-01-1969 | NOISE RIVER    |
| MS1500 | 02 | 01    | 63-0137A | SIMPLOT FEED LOTS  | C | 5 | 03-01-1959 | NOISE RIVER    |

| MAR 1986 |     | IDMRD DEPARTMENT OF WATER RESOURCES |       |     |       |      |                    |                    |       |            |               | PAGE 1478       |  |
|----------|-----|-------------------------------------|-------|-----|-------|------|--------------------|--------------------|-------|------------|---------------|-----------------|--|
|          |     | WATER RIGHTS BY PLACE OF USE        |       |     |       |      |                    |                    |       |            |               | 06-20-1987      |  |
| TOWNSHIP | RNG | SEC                                 | TRACT | LOT | ACRES | USES | WATER RIGHT NUMBER | LAST NAME          | OWNER | SINCE CODE | PRIORITY DATE | SOURCE OF WATER |  |
| 04N      | 03W | 18                                  | SUSE  | 01  |       |      | 63-0137W           | PIONEER DIXIE DITC | C     | D          | 04-01-1869    | BOISE RIVER     |  |
|          |     |                                     |       |     |       |      | 63-7678            | SIMPLDT FEED LOTS  | C     | L          | 10-26-1972    | GROUNDWATER     |  |
|          |     |                                     |       |     |       |      | 63-0137W           | PIONEER DIXIE DITC | C     | D          | 04-01-1869    | BOISE RIVER     |  |
|          |     |                                     |       |     |       |      | 63-1003W           | J. R. SIMPLOT CO.  | C     | S          | 07-15-1967    | GROUNDWATER     |  |
|          |     |                                     |       |     |       |      | 63-5036            | J. R. SIMPLOT CO.  | C     | S          | 07-10-1963    | GROUNDWATER     |  |
|          |     |                                     |       |     |       |      | 63-5037            | J. R. SIMPLOT CO.  | C     | S          | 06-14-1961    | GROUNDWATER     |  |
|          |     |                                     |       |     |       |      | 63-5038            | J. R. SIMPLOT CO.  | C     | S          | 07-20-1964    | GROUNDWATER     |  |
|          |     |                                     |       |     |       |      |                    | SIMPLDT LIVESTOCK  | C     |            |               |                 |  |
|          |     |                                     |       |     |       |      | 63-5039            | J. R. SIMPLOT CO.  | C     | S          | 07-15-1967    | GROUNDWATER     |  |
|          |     |                                     |       |     |       |      | 63-0213W           | AMERICAN DITCH CO. | C     | D          | 10-01-1887    | BOISE RIVER     |  |
|          |     | 19                                  | SESE  | 01  |       |      | 63-0137W           | PIONEER DIXIE DITC | C     | D          | 04-01-1869    | BOISE RIVER     |  |
|          |     |                                     |       |     |       |      | 63-0274            | PIONEER DIXIE DITC | C     | D          | 07-09-1914    | BOISE RIVER     |  |
|          |     |                                     |       |     |       |      | 63-0374            | PIONEER DIXIE DITC | C     | D          | 07-09-1914    | BOISE RIVER     |  |
|          |     |                                     |       |     |       |      | 63-1003W           | J. R. SIMPLOT CO.  | C     | P          | 03-17-1983    | GROUNDWATER     |  |
|          |     |                                     |       |     |       |      | 63-10137           | HILLEN             | C     | P          | 06-24-1983    | GROUNDWATER     |  |
|          |     |                                     |       |     |       |      | 63-5036            | J. R. SIMPLOT CO.  | C     | S          | 03-10-1963    | GROUNDWATER     |  |
|          |     |                                     |       |     |       |      | 63-5037            | J. R. SIMPLOT CO.  | C     | S          | 06-14-1961    | GROUNDWATER     |  |
|          |     |                                     |       |     |       |      | 63-5038            | J. R. SIMPLOT CO.  | C     | S          | 07-20-1964    | GROUNDWATER     |  |
|          |     |                                     |       |     |       |      |                    | SIMPLDT LIVESTOCK  | C     |            |               |                 |  |
|          |     |                                     |       |     |       |      | 63-5039            | J. R. SIMPLOT CO.  | C     | S          | 07-15-1967    | GROUNDWATER     |  |
|          |     | 20                                  | SESE  | 01  |       |      | 63-0137W           | PIONEER DIXIE DITC | C     | D          | 04-01-1869    | BOISE RIVER     |  |
|          |     |                                     |       |     |       |      | 63-0274            | PIONEER DIXIE DITC | C     | D          | 07-09-1914    | BOISE RIVER     |  |
|          |     |                                     |       |     |       |      |                    | JURRIES            | C     | D          |               |                 |  |
|          |     |                                     |       |     |       |      | 63-0374            | PIONEER DIXIE DITC | C     | D          | 07-09-1914    | BOISE RIVER     |  |
|          |     |                                     |       |     |       |      | 63-2240            | RUBY               | C     | L          | 05-18-1914    | UNNAMED STREAM  |  |
|          |     |                                     |       |     |       |      | 63-1818            | SIMPLDT FEED LOTS  | C     | L          | 10-26-1972    | GROUNDWATER     |  |
|          |     |                                     |       |     |       |      | 63-0274            | PIONEER DIXIE DITC | C     | D          | 07-09-1914    | BOISE RIVER     |  |
|          |     |                                     |       |     |       |      |                    | JURRIES            | C     | D          |               |                 |  |

|      |             |
|------|-------------|
| NAME | 01          |
| NAME | 40 01.43    |
| NAME | 01 01.04.43 |
| NAME | 01          |
| NAME | 01          |
| NAME | 40 01.43    |
| NAME | 01          |
| NAME | 01          |

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NAME OWNER STAGE PRIORITY SOURCE OF WATER

|              |   |   |            |                |             |
|--------------|---|---|------------|----------------|-------------|
| REGISTRATION | C | L | 04-03-1916 | FUENILLE CREEK |             |
| REGISTRATION | C | L | 04-03-1916 | FUENILLE CREEK |             |
| REGISTRATION | C | L | 04-03-1916 | FUENILLE CREEK |             |
| REGISTRATION | C | L | 04-08-1915 | MSOON CREEK    |             |
| REGISTRATION | C | L | 04-03-1916 | FUENILLE CREEK |             |
|              |   |   | 5          | 12-31-1922     | GROUNDWATER |
| REGISTRATION | C | L | 04-08-1915 | MSOON CREEK    |             |
| REGISTRATION | C | L | 04-03-1916 | FUENILLE CREEK |             |
| REGISTRATION | C | D | 05-17-1977 | GROUNDWATER    |             |
| REGISTRATION | C | L | 04-08-1915 | MSOON CREEK    |             |
| REGISTRATION | C | L | 04-08-1915 | FUENILLE CREEK |             |
| REGISTRATION | C | L | 04-03-1916 | FUENILLE CREEK |             |
| REGISTRATION | C | D | 05-12-1977 | GROUNDWATER    |             |
| REGISTRATION | C | D | 05-06-1975 | MSOON CREEK    |             |
| REGISTRATION | C | L | 04-03-1916 | FUENILLE CREEK |             |
| REGISTRATION | C | D | 05-12-1977 | GROUNDWATER    |             |
| REGISTRATION | C | L | 04-03-1916 | FUENILLE CREEK |             |
| REGISTRATION | C | L | 04-26-1977 | GROUNDWATER    |             |
| REGISTRATION | C | L | 04-08-1915 | MSOON CREEK    |             |
| REGISTRATION | C | L | 04-03-1916 | FUENILLE CREEK |             |
| REGISTRATION | C | L | 04-08-1915 | MSOON CREEK    |             |

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WATER RIGHTS BY PLACE OF USE 06/28/1987

| TOWNSHIP | RNG | SEC | TRACT | LOT | ACRES | USES | WATER RIGHT | LAST NAME | OWNER | STAGE | PRIORITY | SOURCE OF WATER |
|----------|-----|-----|-------|-----|-------|------|-------------|-----------|-------|-------|----------|-----------------|
|----------|-----|-----|-------|-----|-------|------|-------------|-----------|-------|-------|----------|-----------------|

(POM CONTINUED FROM PREVIOUS PAGE)

| TPOB CONTINUED FROM (THIS PAGE) |    |       |          |                    |   |   |            |               |  |
|---------------------------------|----|-------|----------|--------------------|---|---|------------|---------------|--|
| OWN                             | CH | 19    |          |                    |   |   |            |               |  |
| NHSH                            |    | 01    | 63-0274  | JURRIES            | B |   |            |               |  |
| NHSH                            |    | 01    | 63-0374  | PIONEER DIXIE DITS | B | D | 07-02-1914 | BOISE RIVER   |  |
| NHSH                            | 30 | 01.07 | 63-10034 | J. R. SIMPLOT CO.  | C | S | 03-17-1983 | GROUNDWATER   |  |
| NHSH                            | 30 | 01.43 | 63-2425  | SPEED              | C | L | 08-26-1929 | UNPAVED DRAIN |  |
| NHSH                            | 30 | 01    | 63-5034  | J. R. SIMPLOT CO.  | C | S | 03-10-1943 | GROUNDWATER   |  |
| NHSH                            | 30 | 01    | 63-5037  | J. R. SIMPLOT CO.  | C | S | 06-14-1961 | GROUNDWATER   |  |
| NHSH                            | 30 | 01.02 | 63-5038  | J. R. SIMPLOT CO.  | C | S | 07-20-1944 | GROUNDWATER   |  |
| NHSH                            | 30 | 01    | 63-5039  | SIMPLOT LUTHER     | B |   |            |               |  |
| SUNSH                           |    | 01    | 63-01374 | J. R. SIMPLOT CO.  | C | S | 09-15-1947 | GROUNDWATER   |  |
| SUNSH                           |    | 01    | 63-01374 | PIONEER DIXIE DITS | B | D | 06-01-1869 | BOISE RIVER   |  |
| SUNSH                           |    | 01    | 63-0274  | PIONEER DIXIE DITS | B | D | 07-03-1914 | BOISE RIVER   |  |
| SUNSH                           |    | 01    | 63-0374  | PIONEER DIXIE DITS | B | D | 07-02-1914 | BOISE RIVER   |  |
| SUNSH                           | 35 | 01.07 | 63-10034 | J. R. SIMPLOT CO.  | C | S | 03-17-1983 | GROUNDWATER   |  |
| SUNSH                           | 40 | 01.43 | 63-2425  | SPEED              | C | L | 08-26-1929 | UNPAVED DRAIN |  |
| SUNSH                           | 35 | 01    | 63-5034  | J. R. SIMPLOT CO.  | C | S | 03-10-1943 | GROUNDWATER   |  |
| SUNSH                           | 35 | 01    | 63-5037  | J. R. SIMPLOT CO.  | C | S | 06-14-1961 | GROUNDWATER   |  |
| SUNSH                           | 35 | 01.07 | 63-5038  | J. R. SIMPLOT CO.  | C | S | 07-21-1944 | GROUNDWATER   |  |

MAR 156 IDAMO DEPART-  
WATER RICH

TOWNSHIP RANG SEC TRACT LOT ACRES USES WATER:

1 (POU CONTINUED FROM PREVIOUS PAGE)

|     |     |    |      |    |       |       |
|-----|-----|----|------|----|-------|-------|
| 044 | 044 | 39 | MEWA | 40 | 01.43 | 63-20 |
|     |     |    | MEWA |    | 01    | 63-02 |
|     |     |    | MEWA | 40 | 01.43 | 63-20 |
|     |     |    | SUWA |    | 01    | 63-02 |
|     |     |    | SUWA | 40 | 01.43 | 63-20 |
|     |     |    | SEWA |    | 01    | 63-02 |
|     |     |    | SEWA | 40 | 01.43 | 63-20 |
|     |     |    | MEWA |    | 01    | 63-02 |
|     |     |    | MEWA |    | 01    | 63-02 |
|     |     |    | MEWA | 40 | 01    | 63-03 |

WATER RIGHT  
DATA ENTRY LOG

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