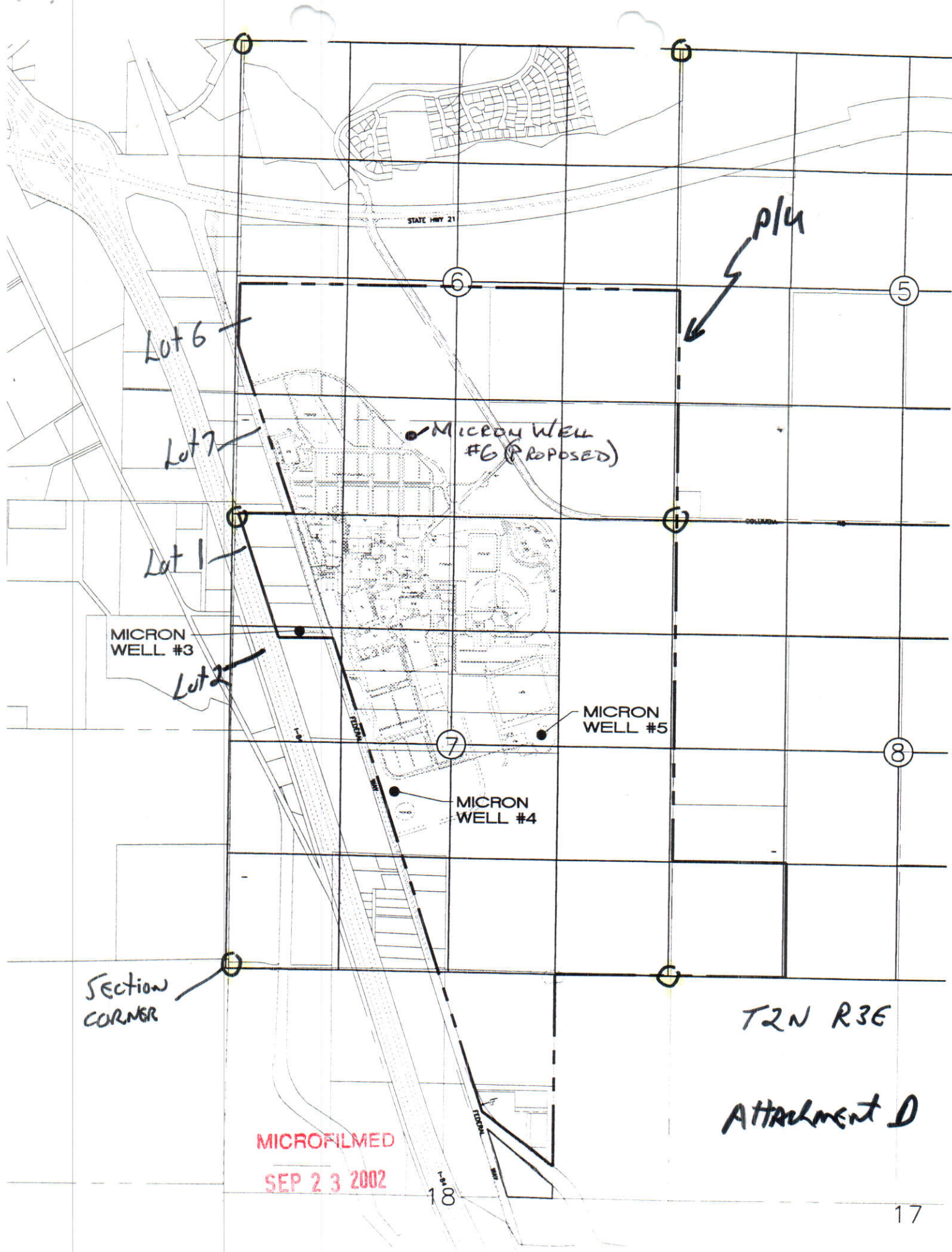


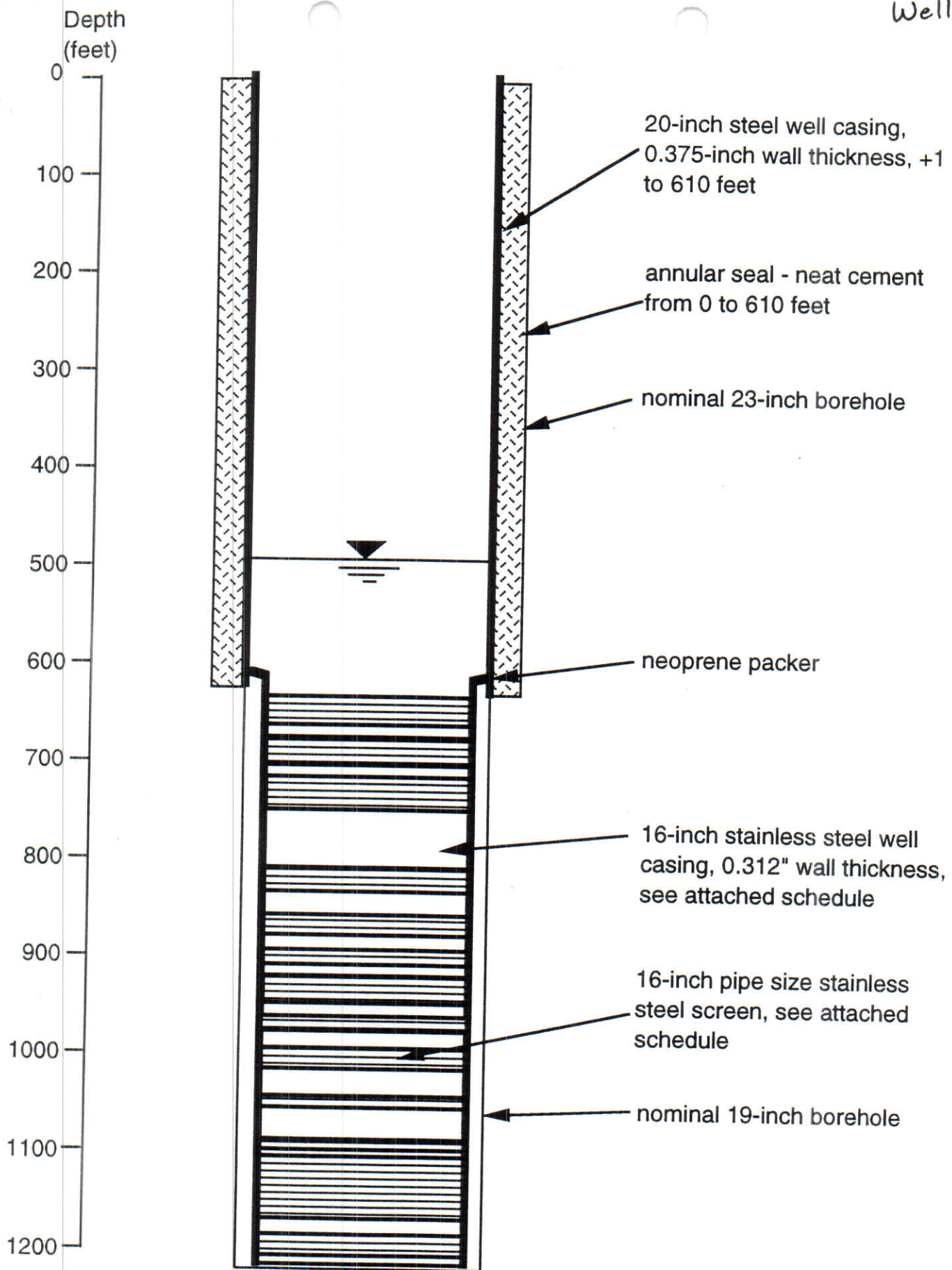


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T2N R3E

Attachment D

Well #5  
5/5

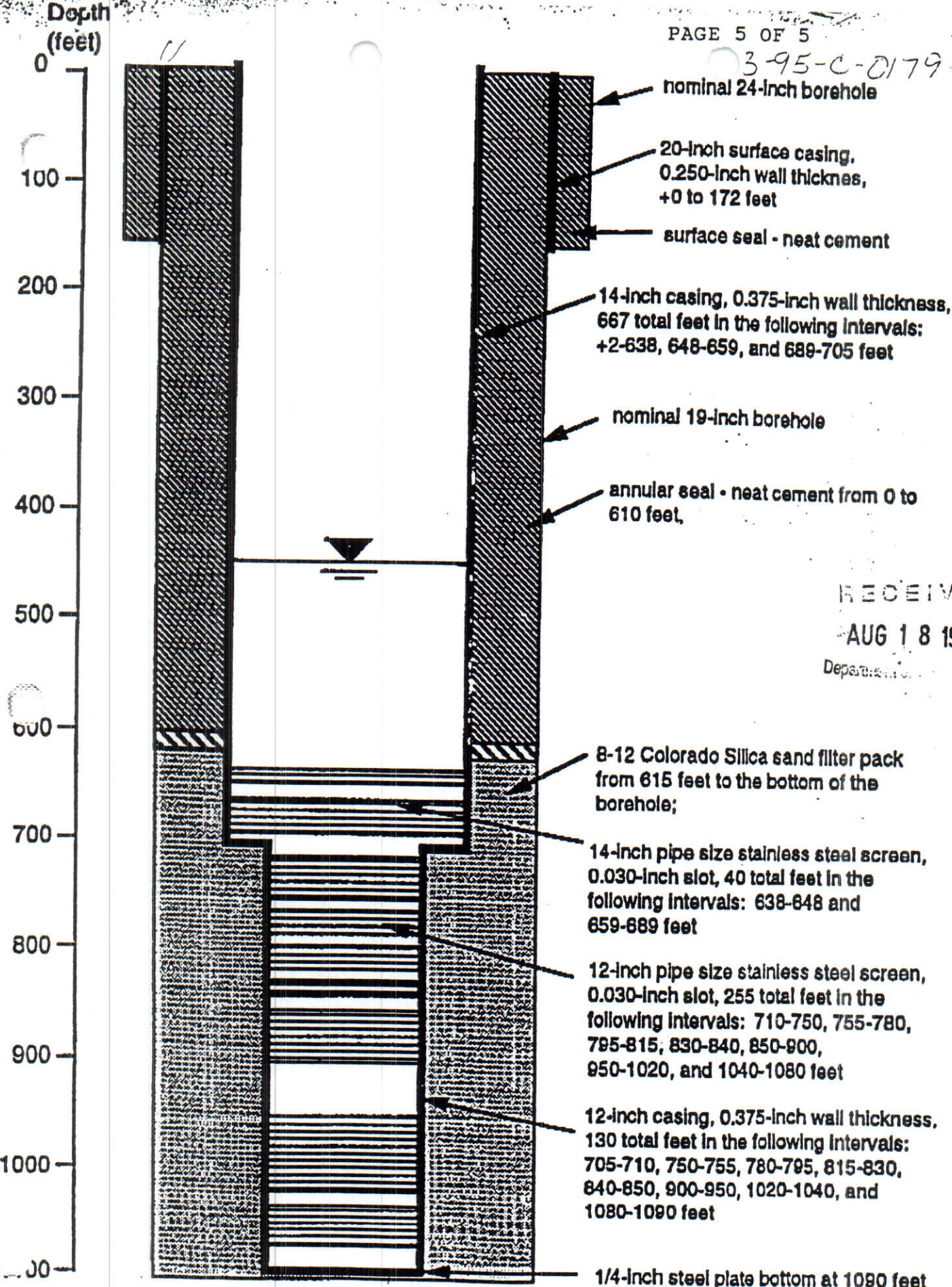


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# MICRON WELL NO. 5 - FINAL WELL DESIGN

3-95-C-0179-200

5/5



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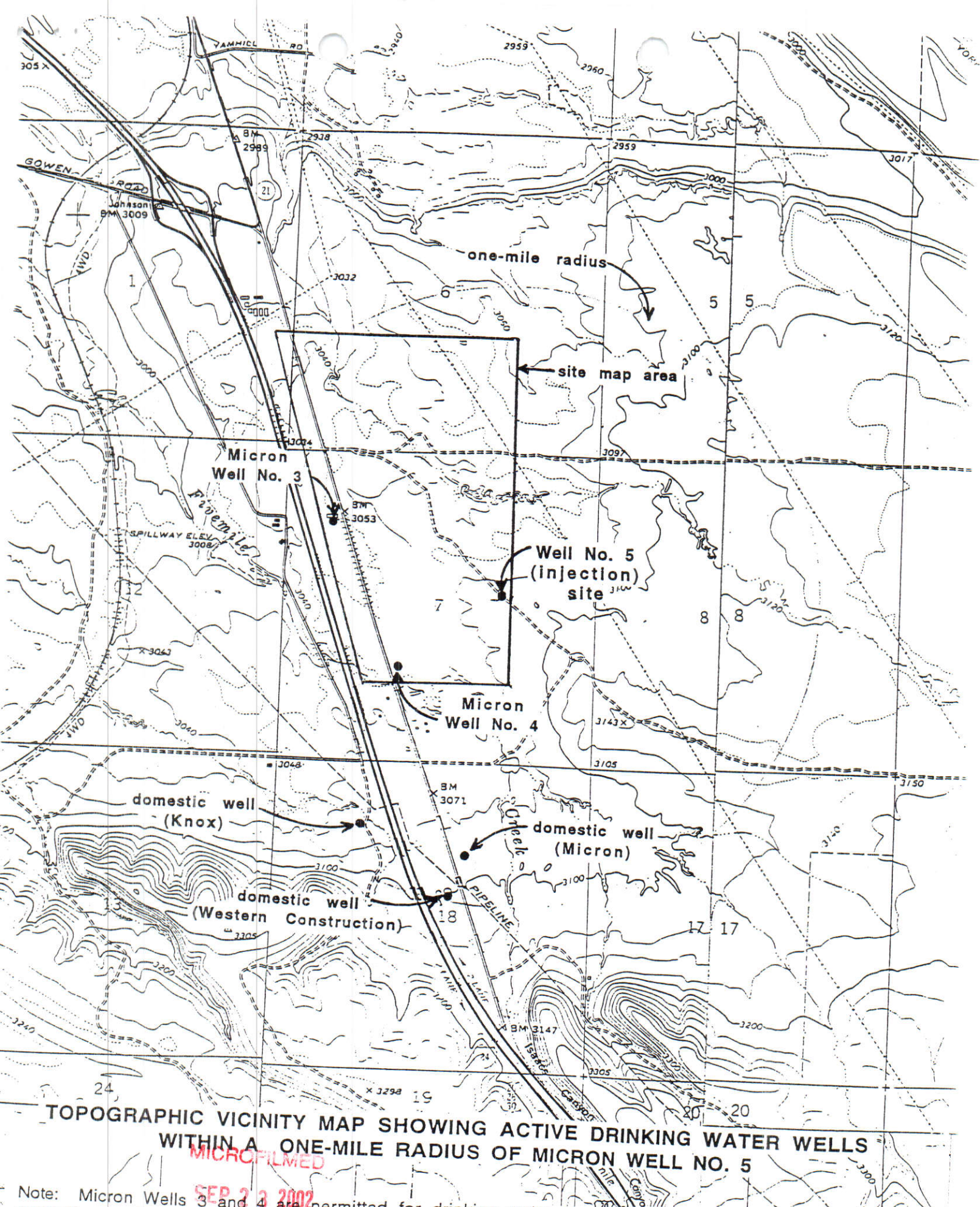
AUG 18 1995

Department of

**MICRON WELL NO. 4 - FINAL WELL DESIGN**

SEP 23 2002





Note: Micron Wells 3 and 4 are permitted for drinking water use. However, Micron domestic water is currently supplied through the United Water Idaho municipal system. Micron Wells 3 and 4 currently supply industrial water use only.

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

NO. 63-31183

Priority: 01/24/2001

Maximum Diversion Rate: 10.00 CFS

This is to certify, that MICRON TECHNOLOGY INC  
8000 S FEDERAL WY  
PO BOX 6  
BOISE ID 837070006

has applied for a permit to appropriate water from:

**Source:** GROUND WATER

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

| <u>BENEFICIAL USE</u> | <u>PERIOD OF USE</u> | <u>RATE OF DIVERSION</u> |
|-----------------------|----------------------|--------------------------|
| IRRIGATION            | 03/01 to 11/15       | 2.00 CFS                 |
| INDUSTRIAL            | 01/01 to 12/31       | 10.00 CFS                |

**LOCATION OF POINT(S) OF DIVERSION:**

|              |                                      |                                |            |
|--------------|--------------------------------------|--------------------------------|------------|
| GROUND WATER | SE $\frac{1}{4}$ SW $\frac{1}{4}$    | Sec. 6, Twp 02N, Rge 03E, B.M. | ADA County |
| GROUND WATER | SW $\frac{1}{4}$ NE $\frac{1}{4}$    | Sec. 7, Twp 02N, Rge 03E, B.M. | ADA County |
| GROUND WATER | L2 SW $\frac{1}{4}$ NW $\frac{1}{4}$ | Sec. 7, Twp 02N, Rge 03E, B.M. | ADA County |
| GROUND WATER | NE $\frac{1}{4}$ SW $\frac{1}{4}$    | Sec. 7, Twp 02N, Rge 03E, B.M. | ADA County |

**PLACE OF USE:** IRRIGATION

| Twp Rge Sec | NE  |      |     |     | NW  |     |     |     | SW  |     |     |     | SE  |     |      |     | Totals |
|-------------|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|--------|
|             | NE  | NW   | SW  | SE  | NE  | NW  | SW  | SE  | NE  | NW  | SW  | SE  | NE  | NW  | SW   | SE  |        |
| 02N 03E 6   |     |      |     |     |     |     |     |     | 3.0 | 3.0 | 8.0 | 6.0 | 3.0 | 3.0 | 10.0 | 3.0 | 39.0   |
| 02N 03E 7   | 4.0 | 10.0 | 3.0 | 4.0 | 3.0 | 5.0 | 2.0 | 5.0 | 3.0 | L6  | L7  | 4.0 | 4.0 | 3.0 | 3.0  | 4.0 | 57.0   |
| 02N 03E 18  |     |      | 3.0 | 1.0 |     |     |     |     |     |     |     |     |     |     |      |     | 4.0    |

Total Acres: 100

**PLACE OF USE:** INDUSTRIAL

| Twp Rge Sec | NE |    |    |    | NW |    |    |    | SW |    |    |    | SE |    |    |    | Totals |
|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--------|
|             | NE | NW | SW | SE | NE | NW | SW | SE | NE | NW | SW | SE | NE | NW | SW | SE |        |
| 02N 03E 6   |    |    |    |    |    |    |    |    | X  | X  | X  | X  | X  | X  | X  | X  |        |
| 02N 03E 7   | X  | X  | X  | X  | X  | X  | X  | X  | X  | L6 | L7 | X  | X  | X  | X  | X  |        |
| 02N 03E 8   |    |    |    |    |    |    |    |    |    |    |    | X  |    |    |    |    |        |
| 02N 03E 18  |    | X  | X  |    | X  |    |    |    |    |    |    |    |    |    |    |    |        |

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

NO. 63-31183

CONDITIONS OF APPROVAL

1. Proof of application of water to beneficial use shall be submitted on or before **February 1, 2007**.
2. Subject to all prior water rights.
3. Project construction shall commence within one year from the date of permit issuance and shall proceed diligently to completion unless it can be shown to the satisfaction of the Director of the Department of Water Resources that delays were due to circumstances over which permit holder had no control.
4. Right holder shall comply with the drilling permit requirements of Section 42-235, Idaho Code.
5. The right holder shall use the full allotment of appurtenant surface water rights in conjunction with groundwater diverted for irrigation purposes under this right and shall only divert groundwater under this right for irrigation purposes when water from the appurtenant surface water rights cannot be delivered to the right holder.
6. If the surface water right(s) appurtenant to the place of use is sold, transferred, leased or used on any other place of use, this right to divert groundwater shall not be used for irrigation purposes without an approved transfer pursuant to Section 42-222, Idaho Code, or approval of the Department if a transfer is not required.
7. This right when combined with all other rights shall provide no more than 0.02 cfs per acre nor exceed a combined annual maximum diversion volume of 450.0 af at the field headgate for the lands above.
8. The entire volume of water injected (100%) can be re-diverted from the aquifer under this permit during the calendar year it is injected. Water not diverted during the year it is injected can be carried over as recharge credits for future withdrawal and beneficial use. The volume authorized for withdrawal by the recharge credits will be reduced by 10% each calendar year following the first calendar year the water is injected.
9. The right holder will analyze hydraulic response of the aquifer to injection and recovery activities to assess the appropriateness of the recovery plan initially set forth in condition no. 8. The assessment will compare water-level hydrographs from local observation wells to recharge/recovery volumes and rates. An analysis of the recharge/recovery volumes and associated aquifer water levels will be provided to the Department on an annual basis throughout the permit development period. Based on the results of the annual analysis, the right holder may propose a revised recovery plan for approval by the Department. The Department on its own may also require a revised recovery plan based upon its review of the data at any time throughout the permit development period and at the time of license issuance.

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State of Idaho  
Department of Water Resources  
**Permit to Appropriate Water**  
NO. 63-31183

CONDITIONS OF APPROVAL

10. Water diverted from Micron well nos. 3 through 6 shall be considered water authorized for withdrawal under existing water rights to the full extent of the water right, as deliverable, unless otherwise requested by the water right holder.
11. The water right holder must comply with the measuring and reporting requirements of the Southeast Boise Groundwater Management Area and any management plan adopted by the director.
12. In the event of water right curtailments in the Southeast Boise Groundwater Management Area, out-of-priority diversions may be allowed under this permit to the extent that (1) the diversions under this permit are mitigated by groundwater recharge activities, and (2) diversions under this permit do not injure senior water rights through direct well interference.
13. Industrial use is for semiconductor and related manufacturing.

This permit is issued pursuant to the provisions of Section 42-204, Idaho Code. Witness the signature of the Director, affixed at Boise, this 14<sup>TH</sup> day of FEBRUARY, 2002.

  
Administrator

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DEC 14 2001

Ident. No.

63-31183

JAN 23 2001

WATER RESOURCES  
WESTERN REGION

w/o fee

STATE OF IDAHO  
Department of Water Resources  
DEPARTMENT OF WATER RESOURCES  
**APPLICATION FOR PERMIT**

To appropriate the public waters of the State of Idaho

FEB 22 2001

JAN 24 2001

WATER RESOURCES  
WESTERN REGION

1. Name of Applicant Micron Technology, Inc. Phone 208-368-4545  
Mailing address 8000 South Federal Way, P.O. Box 6, ID 83707-0006
2. Source of water supply groundwater <sup>Box 6</sup> which is a tributary of NA
3. Location of point of diversion is Township \_\_\_\_\_ Range \_\_\_\_\_ Sec. \_\_\_\_\_, in the \_\_\_\_\_ 1/4, \_\_\_\_\_ 1/4, \_\_\_\_\_ 1/4, Govt. Lot \_\_\_\_\_, B.M., \_\_\_\_\_ County;  
additional points of diversion if any: See Attachment A
4. Water will be used for the following purposes:  
Amount 10.00 for industrial purposes from 1/1 to 12/31 (both dates inclusive)  
(cfs or acre-feet per annum)  
Amount 2.00 for irrigation purposes from 3/15 to 11/15 (both dates inclusive)  
(cfs or acre-feet per annum)  
Amount \_\_\_\_\_ for \_\_\_\_\_ purposes from \_\_\_\_\_ to \_\_\_\_\_ (both dates inclusive)  
(cfs or acre-feet per annum)  
Amount \_\_\_\_\_ for \_\_\_\_\_ purposes from \_\_\_\_\_ to \_\_\_\_\_ (both dates inclusive)  
(cfs or acre-feet per annum)  
Amount \_\_\_\_\_ for \_\_\_\_\_ purposes from \_\_\_\_\_ to \_\_\_\_\_ (both dates inclusive)  
(cfs or acre-feet per annum)  
Amount \_\_\_\_\_ for \_\_\_\_\_ purposes from \_\_\_\_\_ to \_\_\_\_\_ (both dates inclusive)  
(cfs or acre-feet per annum)
5. Total quantity to be appropriated is (a) 10.00 and/or (b) \_\_\_\_\_  
cubic feet per second acre feet per annum
6. Proposed diverting works:  
a. Describe type and size of devices used to divert water from the source 4 wells with electric pumps  
b. Height of storage dam \_\_\_\_\_ feet; active reservoir capacity \_\_\_\_\_ acre-feet; total reservoir capacity \_\_\_\_\_ acre-feet  
c. Proposed well diameter is 16 inches; proposed depth of well is 1200 feet  
d. Is ground water with a temperature of greater than 85°F being sought? no  
e. If well is already drilled, when? 91, 95, 98; Drilling firm Hiddleston;  
Well was drilled for (well owner) Micron; Drilling Permit No. see attached logs
7. Time required for completion of works and application of water to proposed beneficial use is 5 years (minimum 1 year)
8. Description of proposed uses (if irrigation only, go to item 9):  
a. Hydropower; show total feet of head and proposed capacity in KW. \_\_\_\_\_  
b. Stockwatering; list number and kind of livestock. \_\_\_\_\_  
c. Municipal; show name of municipality. \_\_\_\_\_  
d. Domestic; show number of households. \_\_\_\_\_  
e. Other; describe fully. industrial use is semiconductor and related manufacturing  
irrigation is for landscape

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\* Revising by [Signature] 2/22/01 office visit

SEP 23 2002

9. Description of place of use:

a. If water is for irrigation, indicate acreage in each subdivision in the tabulation below.

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

Gov't : 5.6 NWSW 2.6 S.7 NWNW 2.1  
 LOTS : 5WSW 2.7 SWNW 2.2

| Twp             | Rge | Sec. | NE 1/4 |       |       |       | NW 1/4 |       |       |       | SW 1/4 |       |       |       | SE 1/4 |       |       |       | Totals |
|-----------------|-----|------|--------|-------|-------|-------|--------|-------|-------|-------|--------|-------|-------|-------|--------|-------|-------|-------|--------|
|                 |     |      | NE1/4  | NW1/4 | SW1/4 | SE1/4 | NE1/4  | NW1/4 | SW1/4 | SE1/4 | NE1/4  | NW1/4 | SW1/4 | SE1/4 | NE1/4  | NW1/4 | SW1/4 | SE1/4 |        |
| 2N              | 3E  | 6    |        |       |       |       |        |       |       |       | I      | I     | I     | I     | I      | I     | I     | I     | 0      |
| 2N              | 3E  | 6    |        |       |       |       |        |       |       |       | 3      | 3     | 8     | 6     | 3      | 3     | 10    | 3     | 39     |
| 2N              | 3E  | 7    | I      | I     | I     | I     | I      | I     | I     | I     |        |       |       | I     | I      | I     | I     | I     | 0      |
| 2N              | 3E  | 7    | 4      | 10    | 3     | 4     | 3      | 5     | 2     | 5     | 3      |       |       | 4     | 4      | 3     | 3     | 4     | 57     |
| 2N              | 3E  | 18   |        | I     | I     |       | I      |       |       |       |        |       |       |       |        |       |       |       | 0      |
| 2N              | 3E  | 18   |        | 3     | 1     |       |        |       |       |       |        |       |       |       |        |       |       |       | 4      |
| 2N 3E 8         |     |      | I      |       |       |       |        |       |       |       |        |       |       |       |        |       |       |       |        |
| Total acres 100 |     |      |        |       |       |       |        |       |       |       |        |       |       |       |        |       |       |       | 100    |

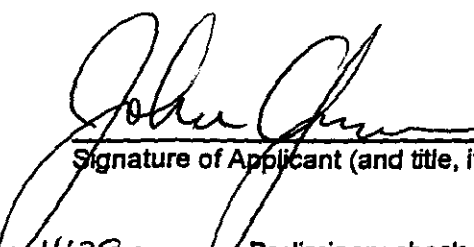
10. Describe any other water rights used for the same purposes as described above. 63-09357, 63-10208, 63-11293, 63-12420, Nampa & Meridian Irrigation District, BOR Storage Contract

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: See Attachment B

13. MAP OF PROPOSED PROJECT REQUIRED - Attach an 8 1/2"x11" map clearly identifying the proposed point of diversion, place of use, section #, township & range. (A photocopy of a USGS 7.5 minute topographic quadrangle map is preferred.)

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

 WATER SERVICES  
 Signature of Applicant (and title, if applicable) MANAGER

Received by LM Date 1-24-01 Time 4:39pm Preliminary check by RL  
 Fee \$ 610.00 Received by LM # 0027316 Date 1-24-01  
 Publication prepared by LM Date 4-19-01 Published in Idaho Statesman  
 Publication approved LM Date 5-8-01

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See Attachments A-D.

SEP 23 2002

## ATTACHMENT A

### 3. Points of Diversion

| Twp. | Rge. | Sec. | 1/4 | 1/4 | 1/4 | Lot | County | Local diversion name         |
|------|------|------|-----|-----|-----|-----|--------|------------------------------|
| 2N   | 3E   | 7    |     | SW  | NW  | 2   | Ada    | Micron Well No. 3            |
| 2N   | 3E   | 7    |     | NE  | SW  |     | Ada    | Micron Well No. 4            |
| 2N   | 3E   | 7    |     | SW  | NE  |     | Ada    | Micron Well No. 5            |
| 2N   | 3E   | 6    |     | SE  | SW  |     | Ada    | Micron Well No. 6 (Proposed) |

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## ATTACHMENT B

### 12. Remarks

Applicant proposes recovery of water stored in the aquifer via underground injection. Therefore, the diversion of groundwater proposed by this application will be fully mitigated. Water used for injection is diverted from the Boise River under water rights 63-00199B and 63-00200B (Nampa & Meridian Irrigation District), 63-12450 (Micron), and Bureau of Reclamation storage contract 14-06-100-6255. The water is injected at Micron Well No. 5 (SWNE Sec 7) under UIC Permit 63-W-156. A copy of the injection permit is attached. Recovery will occur from Micron Well Nos. 3, 4, and 5, and also from proposed Micron Well No. 6. Water-bearing zone to be appropriated is 600 to 1200 feet. The volume of injected water that is re-diverted from the aquifer under this proposed permit shall not exceed the volume injected during the preceding 5-year period. The annual volume injected and recovered shall be reported to IDWR, along with an accounting of water volume injected into and diverted from the aquifer during the running 5-year accounting period. Example calculations of mitigation volumes are attached.

*Note-*

- ① 63-12420, not 12450
- ② copy of 63-W-156 was not attached.

*OK*  
*for 7/13/07*

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# Attachment C

## EXAMPLE MITIGATION CALCULATIONS

| A       | B         | C           | D         | E           | F            | G            | H                       |
|---------|-----------|-------------|-----------|-------------|--------------|--------------|-------------------------|
|         |           | Cummulative |           | Cummulative | Acre Feet    | Acre Feet    | Cummulative             |
| Example | Acre Feet | Acre Feet   | Acre Feet | Acre Feet   | Available    | Lost to      | Acre Feet               |
| Year    | Injected  | Injected    | Pumped    | Pumped      | for Recovery | 5-Year Limit | Lost to<br>5-Year Limit |
| 1       | 2000      | 2000        | 1000      | 1000        | 1000         | 0            | 0                       |
| 2       | 2000      | 4000        | 1000      | 2000        | 2000         | 0            | 0                       |
| 3       | 3000      | 7000        | 2000      | 4000        | 3000         | 0            | 0                       |
| 4       | 3000      | 10000       | 1000      | 5000        | 5000         | 0            | 0                       |
| 5       | 4000      | 14000       | 2000      | 7000        | 7000         | 0            | 0                       |
| 6       | 4000      | 18000       | 2000      | 9000        | 8000         | 1000         | 1000                    |
| 7       | 5000      | 23000       | 3000      | 12000       | 9000         | 1000         | 2000                    |
| 8       | 2000      | 25000       | 3000      | 15000       | 7000         | 1000         | 3000                    |
| 9       | 1000      | 26000       | 2000      | 17000       | 4000         | 2000         | 5000                    |
| 10      | 4000      | 30000       | 2000      | 19000       | 4000         | 2000         | 7000                    |

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Column A is example calendar years, each starting January 1 and ending December 31.

Column B is acre feet of water injected into the aquifer for mitigation purposes during the calendar year.

Column C is acre feet of water injected into the aquifer for mitigation during the life of the project.

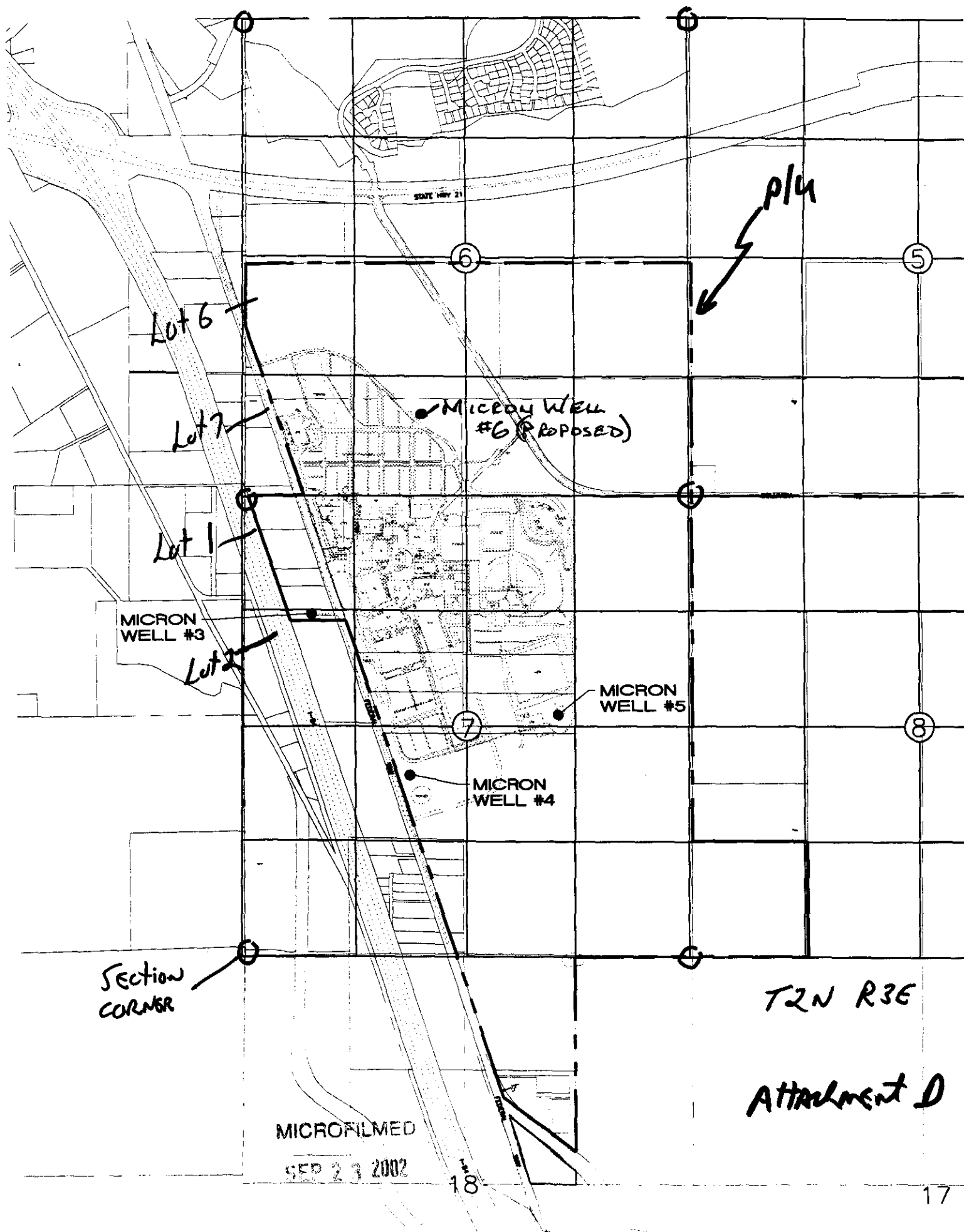
Column D is the acre feet of water pumped from the aquifer under the water right permit during the calendar year.

Column E is the total acre feet of water pumped from the aquifer under the permit.

Column F is the acre feet of water available for recovery during any specific calendar year. It is equal to the sum of injection for the previous 5 years minus the sum of pumping during those same 5 years.

Column G is the acre feet of water not recovered from the aquifer within 5-years of the year of injection.

Column H is cumulative acre feet of water not recovered during all 5-year periods.



## Keen, Shelley

---

**From:** Keen, Shelley  
**Sent:** Wednesday, November 13, 2002 4:36 PM  
**To:** 'TMSCANLAN@aol.com'  
**Subject:** RE: 63-31183

Terry,

I agree with your assessment of the condition, but it gets tough procedurally to re-open a final permit. Would Micron be satisfied with a letter giving IDWR's interpretation of the condition? Either way, I suggest writing a letter that IDWR can respond to.

Shelley Keen  
Water Right Permits Section  
Idaho Dept. of Water Resources  
208-327-7946  
skeen@idwr.state.id.us

-----Original Message-----

**From:** TMSCANLAN@aol.com [mailto:TMSCANLAN@aol.com]  
**Sent:** Tuesday, November 12, 2002 4:59 PM  
**To:** skeen@idwr.state.id.us  
**Subject:** 63-31183

Shelley -

I received a call from Micron Technology today with an inquiry regarding condition No. 7 of Permit 63-31183. This is the permit that authorizes Micron to divert recharged water from their wells in the Southeast Boise Ground Water Management Area. Authorized uses are 10 cfs for industrial and 2 cfs for irrigation (100 acres). The condition reads

"This right when combined with all other rights shall provide no more than 0.02 cfs per acre nor exceed a combined annual maximum diversion volume of 450.0 af at the field headgate for the lands above."

I think we all recognize that the condition applies to the irrigation use. However, Micron is concerned that someone could argue that the total diversion rate under the permit is limited to 450 af for all uses (industrial and irrigation) because the condition does not say anything about irrigation.

Can the condition be modified to mention that the limits apply to irrigation only?

Terry

11/13/2002



State of Idaho

**DEPARTMENT OF WATER RESOURCES**

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

DIRK KEMPTHORNE  
Governor

KARL J. DREHER  
Director

February 14, 2002

MICRON TECHNOLOGY INC  
8000 S FEDERAL WY  
PO BOX 6  
BOISE ID 83707-0006

RE: Permit No. 63-31183

**Permit Approval Notice**

Dear Permit Holder:

The Department of Water Resources has issued the enclosed permit authorizing you to establish a new water right. Please be sure to thoroughly review the conditions of approval and remarks listed on your permit.

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

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

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

The right to drill a well is not a part of this permit to appropriate water. Beginning in July of 1987, a statute was enacted which requires a drilling permit for new well construction and deepening of existing wells. If the well(s) proposed for use under this water right permit were drilled or deepened after July 1, 1987, a separate drilling permit must be obtained from this Department. Please contact the Ground Water Protection Section located here at this office or our regional office nearest you.

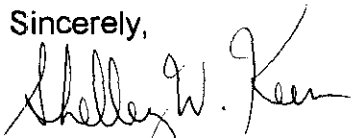
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Also, please note that water right owners are required to report any change of water right ownership and/or mailing address to the Department within 120 days of the change. Failure to report these changes could result in a \$100 late filing fee. Contact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

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

Sincerely,



Shelley W. Keen  
Water Rights Supervisor

SWK:kit

Enclosure(s)

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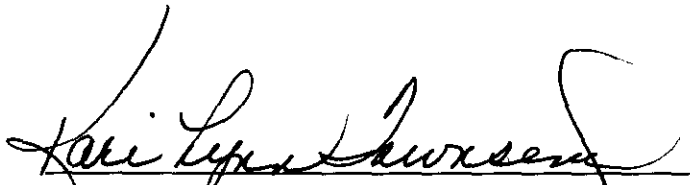
SEP 23 2002

# **CERTIFICATE OF MAILING**

I hereby certify that on February 14, 2002 I mailed a true and correct copy, postage prepaid, of the foregoing PRELIMINARY ORDER(Approved Permit) to the person(s) listed below:

**RE: WATER RIGHT NO. 63-31183**

**MICRON TECHNOLOGY INC  
8000 S FEDERAL WY  
PO BOX 6  
BOISE ID 83707-0006**



**Kari Lynn Townsend  
Secretary**

**MICROFILMED**

**SEP 23 2002**

**EXPLANATORY INFORMATION  
TO ACCOMPANY A  
PRELIMINARY ORDER**

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

**PETITION FOR RECONSIDERATION**

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

**EXCEPTIONS AND BRIEFS**

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

**REQUEST FOR HEARING**

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

**ORAL ARGUMENT**

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

**CERTIFICATE OF SERVICE**

All exceptions, briefs, requests for oral argument and any other matters filed with the Director in connection with the preliminary order shall be served on all other parties to the proceedings in accordance with IDAPA Rules 37.01.01302 and 37.01.01303 (Rules of Procedure 302 and 303).

**MICROFILMED**

**SEP 23 2002**

### **FINAL ORDER**

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

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

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

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

### **APPEAL OF FINAL ORDER TO DISTRICT COURT**

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

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

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

UNRECORDED

SEP 23 2002

APPLICATION FOR PERMIT  
STATE OFFICE ANALYSIS

Reviewed by Sharla Curtis on 12/8/01

No. 63-31183 Name: Micron Tech Corp. Officers ☒ Ad ok ☒ Govt Lots

AREA OF CONCERN: No/Yes TVGW Moratorium GWMA TRUST/NON-TRUST

GROUNDWATER: (✓Flow Chart)

DRILLING PERMIT

All wells - 046  
Basin 34 - 084 (if necessary)  
WMD - North/East/West  
≤ 0.24 cfs/5 acres - No MD  
> 0.24 cfs/5 acres - 067

WMD

Supp irr (irr = only use) - 065-104  
Supp irr (+ other uses) - 100-105  
≤ 0.24 cfs/5 acres - No MD  
> 0.24 cfs/5 acres - 01M

LOCATION:

Boise Front LoGeo - 058 (<85 GW)  
Mitigation - 121  
Trust - 051 (consumptive uses)  
Non-Trust - 048 (consumptive uses or non-cons. > 1.0 cfs)

USES:

STORAGE - 18C-01H-01P-18B-NA WB7  
IRR ≤ 5 ac - R66/R67/R68/R69 (0.03 cfs/ac)  
> 5 ac - R62/R63/R64/R65 (0.02 cfs/ac)  
STOCKWATER - R37 (BLM/FS)-111 (instream stock)  
MINING - 054-106  
HEAT/COOL - R07 (injection well)  
FIRE PROT - 077  
COMMERCIAL/  
INDUSTRIAL - 106-R07  
DAIRY - 082-WD8  
POWER - 17H or 17K (+uses)-17G (under FERC )  
or 17M (not FERC regulated)  
025-027-R22-08A

SURFACE WATER: (✓Flow Chart)

F&G contacted - Yes/No Response  
In/Above MSF - WB9  
PLANNING REVIEW/RESPONSE  
WD - R04 (WD# )  
≤ 0.20 cfs/others - 01H, 01P or No MD  
> 0.20 cfs - 01J

SPRINGS/SINK, INACTIVE WD or WD

≤ 0.24 cfs/5 acres - No MD  
> 0.24 cfs/5 acres - 01M or No MD

RIVER BASINS: (SW special considerations)

Snake R (01) - W23, N/A  
(02,03) - 007 (w/ remark WB9 if above Weiser)  
Payette R (65) - W23, 047 (Payette Lake)  
Salmon R (70's) - 029 (fish screens)  
Weiser R (67) - 086-087

USES:

MUNICIPAL  
Restricted area - 022,075  
Irr., GW supp to SW - 102  
Future needs - 007,109  
FISH/PROP - 029 (70's only)-007-042-106  
DOMESTIC  
Surface water - WB5 (Big Wood/Boise above Star Bridge)  
- 27A (Payette R)  
>1 in restricted area - 070-071-075 (no parks/common areas)  
Irr separate or none allowed - WB5  
GW w/irrigation from SW evident - 065-104  
Moratorium approvable - W03 (2500 gpd - meets domestic def  
i.e. D/convenience store)

BENEFICIAL USE DUE: 1/1/01 12007

MISC CONDITIONS/REMARKS:

Protested - 020-W19  
Development Period  
> 1 yr - 26A  
Ownership - 004  
Non-consumptive - 027  
Water Quality - 106-R07

Multiple pd's per ¼¼ - W32  
Subd lot desc (pd) - W59  
Subd lot desc (pu) - W60  
Use definitions - W02 example - S/50 range  
Pre-1987 development - 068-074 (allow 120 days for proof due)  
Single pd intended - 076

IRRIGATION SEASON 3/1 - 11/15 (Per updated map)

IRR VOLUME/ACRE 1.5

OTHER CONDITIONS/REMARKS

Ind/Semiconductors & related mfg.

COMMENTS Spec. Pond from Darig memo

Per Norm, send copy of Gary's memo  
out w/ the approval. Draw attention  
to the memo in the cover letter, i.e.

Enclosed is a memo dated \_\_\_\_ that describes  
the <sup>recharge credit</sup> calculations

IDAHO DEPARTMENT OF WATER RESOURCES  
APPROPRIATION APPLICATION ANALYSIS SHEET

INITIAL REVIEW BY: JL DATE: 4/5/01 APPLICATION: 63-31183

REQUIRED INFORMATION

Name: (If applicant is a corporation or partnership, names and addresses for the director, officers, and other partners must be included.) *See prior WR files*  
Address:  
Source: (See USGS Quad for names of water sources)  
Point of Diversion: (10 acres for spring, lot & block descriptions for Subdivisions, local name)  
County:  
Quantity: (flow and/or volume)  
Period of use:  
Nature of proposed use: (Include description of use)  
Description of diverting works:  
Time required for beneficial use of water:  
Place of use or acres irrigated:  
Map: (show T, R, S, QQ &/or QQQ)  
Subdivision plat: (for > 1 home in restricted area.  $\geq$  5 homes in non-restricted area)  
Signature: (If applicant is corp., partnership, or municipality, title of signatory is required)  
Correct fee paid

RECEIVED

DEC 14 2001

Department of Water Resources

Gov't. Lots:

P/D

P/U

ADDITIONAL INFORMATION

*gpr* ADVERTISE REMARK(S)  
(Reviewer identify which remarks)

YES NO

☒ Overlapping place of use: (Describe source & relationship to present application on next page.)  
☒ Overlapping point of diversion.  
☒ Critical groundwater area:  
☒ Groundwater management area:  
☒ 1992 moratorium:  
☒ Surface water source, IDFG letter needed.  
☒ Protected river or minimum flow reach, notify water planning bureau.  
☒ E-mail to SCA staff: (perennial stream, non-pump diversion &/or any mining).  
☒ E-mail to Dam Safety staff: (for any storage)  
☒ Mitigation plan: Check any that apply.  
☒ immediate = acceptable plan required and submitted.  
☒ N/A future = open areas, acceptance of condition of approval is in file.  
☒ Send power requirement letter &/or fish farm requirement letter.  
☒ Power residency affidavit:  
☒ Diversion greater than 5 cfs or 500 af or irrigation greater than 200 acres: (If yes, attach Large Diversion supplementary analysis sheet.)  
☒ \*REQUEST ADDITIONAL INFORMATION FROM THE APPLICANT

Large div. w/o (Abbreviated)

Date Requested 4/9/01

Date Response Received 4/18/01  $\pm$  7/9/01

*See letter for abbreviated request*

*Procs with T. 68944*

## PROCESSING

APP. NO. 63-31183

YES NO

☒ ☐ In form for advertising:  
☒ ☐ Statewide advertising: (> 10 cfs &/or 1000 af)  
☒ ☐ Fee amount, receipt number and date recorded on application:

SEND COPIES TO: NOTE IF E-MAIL COMMENT LETTER USED.

YES NO

☐ ☒ I.D. Health & Welfare  
☐ ☒ I.D. District Health  
☐ ☒ I.D. Fish & Game  
☐ ☒ I.D. Lands

YES NO

☐ ☒ U.S. BLM  
☐ ☒ U.S. Forest Service  
☐ ☒ Water Dist. # \_\_\_\_\_  
☐ ☒ Water Planning Bureau  
☒ ☐ Other JE BLM Gwma Adv. Comm  
 (except not to Micm,  
 of course)  
 See attached list

FINAL REGIONAL PROCESSING REVIEW:

YES NO

☒ ☐ Affidavit of publication received:  
☒ ☐ Application published correctly: If not, record action taken.

☒ ☐ Publication dates and paper recorded on application:  
☒ ☐ Final date for protest 5-7-01  
☒ ☐ Protests received.  
☒ ☐ Recommendations attached:  
☒ ☐ Measuring device required:  
☒ ☐ Water delivered by water master? District # \_\_\_\_\_  
☒ ☐ Special conditions of approval or cover letter: See memo dated 12/10/01

See below for additional information

\* Recommended Date or Priority 1-24-2001  
 Recommended by: Gay S Date: 12/12/01

ADDITIONAL INFORMATION:

\* Received 1/23/01 w/o fee, 1/24/01 w/ fee. Revised 2/22/01 to add permits but not more power or more flow/volume. Priority remains at 1-24-01.

See 3/5/01 preliminary determination that ok to proceed per Gwma order of 1994.

See 7/13/01 memo in T. 68944.

Form No.  
7/87

STATE OF IDAHO  
DEPARTMENT OF WATER RESOURCES

CHECKLIST OF REQUIREMENTS  
LARGE DIVERSION SUPPLEMENTARY  
ANALYSIS SHEET\*

63-31183  
RE Applicant's  
4/18/01 response.

EFFECT ON EXISTING RIGHTS

- \* ☐ Yes ☐ No Springs/surface streams with 5 or less existing users  
☐ Identify number of impacted rights  
☐ Name and address of users  
☐ Location of points of diversion  
☐ Nature of use of the existing rights  
☒ Yes ☐ No Groundwater  
☐ Plat showing proposed well and any other wells &/or  
springs within 1/4 mile radius  
☐ Yes ☐ No Statement of design construction, or operation techniques  
which will be used to reduce impact on existing rights

SUFFICIENCY OF WATER SUPPLY

Water Requirements of Proposed Project

- \* ☐ Required diversion rate during peak use (Maximum rate)  
☐ Required diversion rate during average use period  
☐ Annual volume  
☐ Season of use  
☒ Volume to be consumptively used/year  $\approx$  c 5% of diversion volume  
now but could vary over time  
Quantity of Water Available from Source  
☐ Flow rates for surface water sources available during peak  
and average water demand period  
☐ Properties of aquifers  
☐ Other sources available for supplementation

GOOD FAITH, DELAY OR SPECULATION

- ☐ Copies of deeds, leases, easements, and right-of-ways from \_\_\_\_\_  
☐ Power applications affidavit form 205/206 is required  
☐ Yes ☐ No Other needed permits, licenses, or approvals required. If  
yes, \_\_\_\_\_

FINANCIAL RESOURCES

- ☐ Current certified financial statement  
☐ Financial commitment letter/financial statement from  
committed party  
☐ Project design/plans along with cost estimation to  
complete project

\*For applications of more than 5 cfs. or more than 500 AF.

\* Abbreviated response... these items requested in 4/9/01  
letter

63-31183

LOCAL PUBLIC INTEREST

Comments received from:

- \* ☐ City ☐ Idaho Fish & Game ☐ Irrigation District  
☐ County ☒ Idaho Health & Welfare ☐ Canal Company  
☐ Reservations ☐ Division of Environment ☐ Other \_\_\_\_\_

Project impacts/implications report

COMMENTS

NO comments received from City. City serves on GWMA  
ADV. Comm. Hec. NO comments from ADV. Comm. either.  
County N/A. Since City impact AREA.

\* Micron requested comments from City & DEQ as noted  
in FAX received 7/9/01. OK that no comments were  
received.

VIC CONRAD  
JR SIMPLOT CO  
PO BOX 27  
BOISE ID 83707-0027

BEN HEPLER  
UNITED WATER ID  
PO BOX 7488  
BOISE ID 83707

~~MIKE MCINTYRE~~  
~~MICRON TECH INC~~  
~~PO BOX 6~~  
~~BOISE ID 83707-0006~~

CHAS F MCDEVITT  
LES BOIS SOCCER  
PO BOX 2564  
BOISE ID 83701-2564

CATHERINE CHERTUDI  
CITY OF BOISE  
PO BOX 500  
BOISE ID 83701-0500

BILL BACHMAN  
CROMAN CORP  
1625 YAMHILL RD  
BOISE ID 83716

ED SQUIRES  
HYDRO LOGIC INC  
1530 KNIGHTS DR  
BOISE ID 83712

COMMENT LETTERS  
for Micron Appl.

# 63-31183

# 68944

-JR 4/9/01

RECEIVED

IAN 22 2002

## MEMORANDUM

Department of Water Resources

To: File no. 63-31183 in the name of Micron Technology, Inc.  
From: Gary Spackman *Gay*  
Date: January 17, 2002

Re: Conditions of Approval

Application for water right no. 63-31183 was filed by Micron Technology, Inc. (Micron) to authorize diversion from its wells of Boise River water treated in Micron's water treatment plant and injected to the aquifer for recharge, storage and recovery.

There should be a direct link between the volume of treated surface water injected to the aquifer and the volume of water withdrawn from the aquifer, both in quantity and time. I reviewed a report of a hydrogeologic model prepared by Charles Brockway for Micron that simulated recharge to the aquifer over a period of years. The model also simulated withdrawals from the aquifer following the recharge. The model estimated the amount of injected water that could be recovered at later times. Department staff met with John Chapman, Terry Scanlan, Mike McIntyre, and Rich Neal of Micron to discuss the plan.

Micron referred to the model in proposing a recovery plan that utilized the data derived from the model. After discussions with Department staff, Micron proposed a recovery plan as follows: The volume of injected water that can be re-diverted from the aquifer under this proposed permit will be 100 percent during the calendar year it is injected. Water not diverted during the year it is injected can be carried over as recharge credits, but will be assessed a 10 percent loss each subsequent year. The proposed accounting method has been developed to simplify the recharge credit calculations. As shown in the following table, the 10 percent annual loss is more conservative than the loss after approximately 5 years of storage that is predicted by the numerical model (Southeast Boise Aquifer Simulation and Aquifer Recharge and Recovery Evaluation, Brockway Engineering, January 1999).

Percentages of Recharged Water Retained in Long-Term Storage

| Year | Model Scenario 5B<br>(14.5-Sq Mi Area,<br>750 gpm for 1 year) | Percent Retained<br>With 10 Percent<br>Annual Loss |
|------|---------------------------------------------------------------|----------------------------------------------------|
| 0    | 100%                                                          | 100%                                               |
| 1    | 85%                                                           | 90%                                                |
| 2    | 72%                                                           | 81%                                                |
| 3    | 67%                                                           | 73%                                                |
| 4    | 64%                                                           | 66%                                                |
| 5    | 61%                                                           | 59%                                                |
| 6    | 59%                                                           | 53%                                                |

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|    |     |     |
|----|-----|-----|
| 7  | 56% | 48% |
| 8  | 54% | 43% |
| 9  | 52% | 39% |
| 10 | 50% | 35% |
| 11 | 49% | 31% |
| 12 | 47% | 28% |
| 13 | 45% | 25% |
| 14 | 44% | 23% |
| 15 | 42% | 21% |

The annual volume of water injected, recovered, stored, and lost shall be reported to IDWR at the end of each calendar year. Example accounting calculations are provided below.

### EXAMPLE ACCOUNTING CALCULATIONS

| <b>A</b>       | <b>B</b>           | <b>C</b>           | <b>D</b>               | <b>E</b>           | <b>F</b>           |
|----------------|--------------------|--------------------|------------------------|--------------------|--------------------|
|                |                    |                    | <b>Net Volume</b>      | <b>Annual 10%</b>  |                    |
|                | <b>Water</b>       | <b>Water</b>       | <b>to/from</b>         | <b>Loss From</b>   | <b>End of Year</b> |
| <b>Example</b> | <b>Injected</b>    | <b>Pumped</b>      | <b>Aquifer Storage</b> | <b>Storage</b>     | <b>Storage</b>     |
| <b>Year</b>    | <b>(acre feet)</b> | <b>(acre feet)</b> | <b>(acre feet)</b>     | <b>(acre feet)</b> | <b>(acre feet)</b> |
| 0              | 1000               | 0                  | 1000                   | 0                  | 1000               |
| 1              | 2000               | 1000               | 1000                   | 100                | 1900               |
| 2              | 3000               | 2000               | 1000                   | 190                | 2710               |
| 3              | 3000               | 1000               | 2000                   | 271                | 4439               |
| 4              | 4000               | 2000               | 2000                   | 444                | 5995               |
| 5              | 4000               | 2000               | 2000                   | 600                | 7396               |
| 6              | 5000               | 3000               | 2000                   | 740                | 8656               |
| 7              | 2000               | 3000               | -1000                  | 866                | 6790               |
| 8              | 1000               | 2000               | -1000                  | 679                | 5111               |
| 9              | 4000               | 2000               | 2000                   | 511                | 6600               |
| 10             | 3000               | 2000               | 1000                   | 660                | 6940               |
| 11             | 3000               | 1000               | 2000                   | 694                | 8246               |
| 12             | 4000               | 2000               | 2000                   | 825                | 9422               |
| 13             | 4000               | 2000               | 2000                   | 942                | 10479              |
| 14             | 5000               | 3000               | 2000                   | 1048               | 11431              |

|       |       |       |       |      |      |
|-------|-------|-------|-------|------|------|
| 15    | 2000  | 3000  | -1000 | 1143 | 9288 |
| Total | 50000 | 31000 | 19000 | 9712 |      |

Column A is example calendar year, starting January 1 and ending December 31.

Column B is acre feet of water injected into the aquifer for mitigation purposes during the calendar year.

Column C is acre feet of water pumped from the aquifer under the permit during the calendar year.

Column D is the net acre feet added or subtracted from storage during the calendar year

Column E is the loss from storage (10% of the water held in storage during the previous year)

Column F is the acre feet of water held in aquifer storage (i.e., recharge credits) at the end of the calendar year

These are reasonable means of accruing and accounting the credit for water diverted.

Micron stated that it would gather data during each calendar year to verify and refine the conclusions of the Brockway model. This should become a condition of approval.

I propose the following conditions of approval:

1. Proof of application of water to beneficial use shall be submitted on or before January 01, 2007.
2. Subject to all prior water rights.
3. Project construction shall commence within one year from the date of permit issuance and shall proceed diligently to completion unless it can be shown to the satisfaction of the Director of the Department of Water Resources that delays were due to circumstances over which permit holder had no control.
4. Right holder shall comply with the drilling permit requirements of Section 42-235, Idaho Code.
5. The right holder shall use the full allotment of appurtenant surface water rights in conjunction with ground water diverted for irrigation purposes under this right and shall only divert ground water under this right for irrigation purposes when water from the appurtenant surface water rights cannot be delivered to the right holder.
6. If the surface water right(s) appurtenant to the place of use is sold, transferred, leased or used on any other place of use, this right to divert ground water shall not be used for irrigation purposes without an approved transfer pursuant to Section 42-222, Idaho Code, or approval of the Department if a transfer is not required.

7. This right when combined with all other rights shall provide no more than 0.02 cfs per acre nor exceed a combined annual maximum diversion volume of 450.0 af at the field headgate for irrigation of the lands above.
8. The entire volume of water injected (100%) can be re-diverted from the aquifer under this permit during the calendar year it is injected. Water not diverted during the year it is injected can be carried over as recharge credits for future withdrawal and beneficial use. The volume authorized for withdrawal by the recharge credits will be reduced by 10% each calendar year following the first calendar year the water is injected.
9. The right holder will analyze hydraulic response of the aquifer to injection and recovery activities to assess the appropriateness of the recovery plan. The assessment will compare water-level hydrographs from local observation wells to recharge/recovery volumes and rates. An analysis of the recharge/recovery volumes and associated aquifer water levels will be provided to the Department on an annual basis throughout the permit development period. Based on the results of the annual analysis, the right holder may propose a revised recovery plan for approval by the Department. The Department on its own may also require a revised recovery plan based upon its review of the data at any time throughout the permit development period and at the time of license issuance.
10. Water diverted from Micron well nos. 3 through 6 shall be considered water authorized for withdrawal under existing water rights to the full extent of the water rights, as deliverable, unless otherwise requested by the water right holder.
11. The water right holder must comply with the measuring and reporting requirements of the Southeast Boise Ground Water Management Area and any management plan adopted by the director.
12. In the event of water right curtailments in the Southeast Boise Ground Water Management Area, out-of-priority diversions may be allowed under this permit to the extent that (1) the diversions under this permit are mitigated by ground water recharge activities, and (2) diversions under this permit do not injure senior water rights through direct well interference.
13. Industrial use is for semiconductor and related manufacturing.

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## MEMORANDUM

TO: Files

FROM: Steve Lester *SL*

DATE: July 13, 2001

RE: *Micron Technology Application for Permit No. 63-31183  
and Application for Transfer No. 68944*

**John Chapman of Micron recently requested a decision on these applications.** Micron faces substantial extra costs if municipal water has to be substituted for water proposed in the filings. Chapman noted Micron's recent revenue problems and hopes the department can approve at least one application expeditiously. Application 63-31183 can probably be approved more quickly than the transfer can.

Micron proposed a new permit for 10 cfs mitigated by river water injected under previous IDWR approvals. The applicant also proposed to change two recently purchased licenses from municipal to industrial and irrigation uses at the Micron site. The transfer includes 6.09 cfs and about 2074 afa. Both applications describe the same water uses, place of use and most of the same wells. Wells for 63-31183 include existing Micron wells # 3 through 5 plus proposed Micron well #6. Wells for the transfer include the same ones plus the Gowen and Oregon Trail wells obtained from United Water.

### Application 63-31183

Here are some pertinent factors if the application for permit is approved:

1. The application was processed based on a preliminary determination by IDWR mandated by the 1994 SE Boise GWMA Order. See Gary Spackman's 3/5/01 memo.
2. One new well can be drilled with a 600-1200 feet water bearing zone.
3. Pumping under this permit should not exceed the amount of water injected into the aquifer.
4. Annual water use should be reported within the GWMA framework.
5. The GWMA monitoring plan includes continuous, monthly and quarterly well data collection based on a network of wells in and around the GWMA. Monitoring should be able to detect problems possibly attributed to additional pumping. Helen Harrington can provide more information on the monitoring network if necessary.

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6. The applicant proposed this new use should be subject to well interference factors but not to priority cuts if such regulation occurs. See the last paragraph on page 1 of Chapman's 4/18/01 letter. I suggest pumping under this permit should be curtailed if a determination is made that senior water rights are being injured.
7. Proposed irrigation in Sections 6 and 7 suggests the 3/1-11/15 season but acres in Section 18 favor 3/15-11/15 based on current standards. All irrigation should share the same season (suggest 3/1 start date).
8. Recall the considerable N/U, P/U and P/D overlap proposed by both applications. Overlapping coverage of irrigation from shared wells could be approved but limited to the standard duty of water when combined with other irrigation rights. It is difficult to impose a similar limitation for overlapping industrial use due to insufficient information (additive industrial uses in the applications or not?). Final overlap determinations could be left to eventual licensing of the permit.

#### **Transfer 68944**

The transfer proposes to use two municipal water rights for the same irrigation noted in 63-31183. The same industrial P/U is also proposed but it is not known if the industrial use under both filings is additive or not as already noted.

Micron bought the rights from United Water in 1999 as described by Attachment E.

#### **Verification of Use**

Beneficial use records are found in Attachment F (1979-1997) and in the attached GWMA records (1995-2000). Attachment F lists annual volume but does not include flow rate data. GWMA records, which include annual reporting for the six years, list annual volume but incomplete flow data.

GWMA flow data document three years of the Gowen well pumping up to 3.12 cfs. The licensed rate is 4.00 cfs. GWMA records indicate the Oregon Trail well was pumped at 1.62 cfs. The licensed rate is 2.09 cfs. Flow data was not included for every year the wells were used.

The Gowen well was licensed for 806 afa while the Oregon Trail well allows 1268 afa. Authorized volume for both wells totals 2074 afa. Attachment F shows combined use from the two wells exceeded 2074 af in 1984 and 1988-1995. That data does not completely agree with reported GWMA volumes from 1995-1997. The numbers are fairly close for 1996 and 1997 but significantly different for 1995. The GWMA data for 1995 list Gowen with 1118 and Oregon Trail with 546, for a total of 1664 af. Attachment F shows 2303 af for the wells in 1995.

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The data confirm the total licensed volume was diverted in some years, although each well sometimes exceeded its authorized volume limit. Additionally, some of the "Oregon Trail volume" came from the Gowen well as noted in Attachment F ("volume switch").

The situation is somewhat unorthodox. The records are somewhat incomplete. But sufficient information confirms the full amount of licensed water has been diverted to satisfy 1987 SRBA and recent five year benchmarks even if some use has been "out of bounds." Forfeiture does not appear to be an issue.

#### Expansion of Use

The transfer does not propose to exceed the licensed rate of flow or diversion volume. Consumptive volume for the municipal use is unknown. Micron estimates about 5% of its use has been consumptive over time, although consumptive use might rise and fall with changing conditions (see page 1 of Chapman's 4/18/01 letter).

Attachment A of the transfer lists the full rate and diversion volume to be used for industrial purposes in 63-8992. The same right also lists 1.50 cfs with 300 afa for irrigation, but the total amount is not increased. This is not an unprecedented idea (recall the NMID transfer with its sliding scale, dual use concept) but is certainly not a regular practice. One expects a reduction in one use to accommodate a second use instead of simply adding both uses to a water right. Dual uses in 63-8992 could be approved if properly conditioned.

The irrigation component proposed in 63-8992 raises expansion questions in two ways. One, a full use of the licensed water for industrial use precludes irrigation use. Two, if irrigation does occur (say industrial use will be a lesser amount), how will pre and post transfer consumptive use be evaluated?

There is not sufficient information to know if consumptive use will increase in the transfer.

#### Sustainable Yield of the GWMA Aquifer

Can the aquifer adequately handle partial or full pumping from the Gowen and Oregon Trail wells? Anecdotal information suggests about 4000 (?) afa can be pumped without significant GWMA problems.

GWMA water users made commendable progress in reducing the use of the local aquifer. Pumping declined about 30% from 1995 through 2000 as noted in the attached table. About 3300-3600 af were diverted each year in the GWMA from 1998-2000 when the two wells in question were idled. Note the volume contribution of the two wells from 1995-1997 relative to the total reported use in the GWMA. What will happen if the two wells are fully diverted? Nobody knows, particularly if 63-31183 is factored into the picture.

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The Gowen and Oregon Trail wells have 1977 priority dates. Priority dates for water rights subject to GWMA reporting range from 1958 to 1992. The department must weigh the overall impact to the GWMA relative to approving more pumping for two relatively senior water rights.

Perhaps the transfer approval can allow "blocks of water" to be diverted for Micron. A subsequent block could not be diverted until monitoring data confirm pumping the prior block did not cause any significant problems. The GWMA monitoring plan provides the tool for ongoing evaluation of the situation. A staged approval of this sort might help identify the sustainable yield of the aquifer.

I suggest a block of water could equal 500 af. Use of the first block could be evaluated after three months of pumping to see if the second block can be diverted. And so on.

CC: Helen Harrington

MICROFILMED  
SEP 23 20024

# SE BOISE GWMA ANNUAL WATER MEASUREMENT REPORTING (ACRE FEET)

| OWNER                      | 1995        | 1996        | 1997        | 1998        | 1999        | 2000        | TOTAL        |
|----------------------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|
| Boise Parks and Recreation |             |             |             |             |             | 14          | 14           |
| Croman Corporation         | 57          | 50          | 44          | 15          | 0           | 0           | 166          |
| Idaho Power                |             | 3           | 0           | 0           | 0           | 1           | 4            |
| JR Simplot Company         | 264         | 206         | 205         | 150         | 0           | 0           | 825          |
| Les Bois Soccer            | 269         | 308         | 319         | 162         | 36          | 15          | 1109         |
| * Micron Technology Co.    | 1680        | 2308        | 2204        | 2334        | 2330        | 2297        | 13153        |
| Motive Power               | 17          | 14          | 16          | 20          | 12          | 13          | 92           |
| School District            | 13          | 15          | 14          | 14          | 28          | 32          | 116          |
| * United Water Idaho       | 2348        | 1895        | 1927        | 921         | 1278        | 922         | 9291         |
| Wild Shamrock LLP          | 4           | 6           | 7           | 8           | 3           | 3           | 31           |
| <b>TOTAL</b>               | <b>4652</b> | <b>4805</b> | <b>4736</b> | <b>3624</b> | <b>3687</b> | <b>3297</b> | <b>24801</b> |

\* Micron bought Gowen & Oregon Trail wells & rights in 1999 from United Water.  
Reported volumes per 1995 - current records of GWMA:

|      | ACRE FEET REPORTED |           |       | % of total<br>for GWMA |
|------|--------------------|-----------|-------|------------------------|
|      | GOWEN              | OR. TRAIL | TOTAL |                        |
| 2000 | 0                  | 0         | 0     | —                      |
| 1999 | 0                  | 0         | 0     | —                      |
| 1998 | 0                  | 0         | 0     | —                      |
| 1997 | 829                | 11        | 840   | 18 %                   |
| 1996 | 963                | 336       | 1299  | 27 %                   |
| 1995 | 1118               | 546       | 1664  | 36 %                   |

← Gowen & OR TRAIL wells,  
% of total reported

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SEP 23 2002

GOWEN & OREGON TRAIL WELLS - DATA EXTRACTED FROM SE BOISE GWMA FILE - JUL 7/13/01

**Micron**

Micron Technology, Inc.  
8000 South Federal Way  
P.O. Box 6  
Boise, Idaho 83707-0006

Date

July 9, 01

Number of pages including cover sheet

3

To:

Steve Lester

IDWR

Phone

Fax Phone

334-2348

CC:

From:

John Chapman

Facilities / Plant Operations

Mail Stop #602

Phone

(208)

Fax Phone

(208) 368-5555

CC:

## REMARKS:

☐

Urgent

☐

For your review

☐

Reply ASAP

☐

Please comment

Comments:

Micron letters seeking comments  
from City of Boise & DEQ  
Re 63-31183.

-JL

**Confidentiality Notice:**

This message is intended only for the use of the individual or entity to which it is addressed and may contain information that is privileged, confidential, and exempt from disclosure under applicable law. If the reader of this message is not the intended recipient, or the employee or agent responsible for delivering this message to the intended recipient, you are hereby notified that any dissemination, distribution, or copying of this communication is strictly prohibited. If you have received this communication in error, please notify us immediately by telephone and return the original message to us at the above address via the US Postal Service. Thank You.

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SEP 24 2002



Micron Technology, Inc.  
8000 S. Federal Way  
P.O. Box 6  
Boise, ID 83707-0006  
208.368.4000

April 20, 2001

Mr. Stephen E. West  
Regional Administrator  
Department of Environmental Quality  
1410 North Orchard  
Boise, Idaho 83706-2239

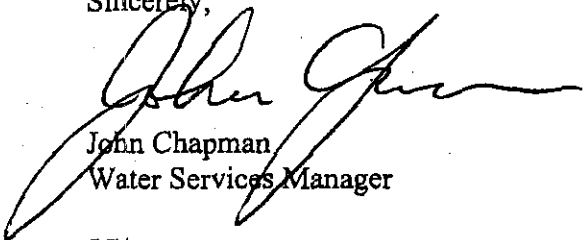
Re: IDWR Application for Permit

Dear Steve:

Micron Technology, Inc. recently applied to the Idaho Department of Water Resources (IDWR) for a permit to recover injected surface water stored underground. A copy of the permit application is attached. A description of the project is included in Attachment B.

Steve Lester of IDWR requested that we seek DEQ's comment under IDAPA 37.03.08.05.g. We would be pleased to answer any questions and provide a tour of the project. We assume DEQ will have no comment if IDWR has not heard from you by May 7, 2001.

Sincerely,



John Chapman  
Water Services Manager

JC/sms

Attachments

MICROFILMED

SEP 23 2002

*The future of memory*



Micron Technology, Inc.  
8000 S. Federal Way  
P.O. Box 6  
Boise, ID 83707-0006  
208.368.4000

April 20, 2001

Mr. Carl Ellsworth, P.E.  
Environmental Manager  
City of Boise  
150 North Capitol Boulevard  
P.O. Box 500  
Boise, Idaho 83701-0500

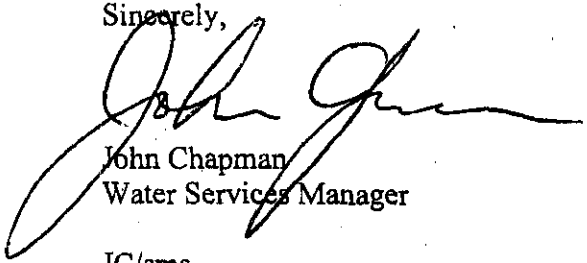
Re: IDWR Application for Permit

Dear Carl:

Micron Technology, Inc. recently applied to the Idaho Department of Water Resources (IDWR) for a permit to recover injected surface water stored underground. A copy of the permit application is attached. A description of the project is included in Attachment B.

Steve Lester of IDWR requested that we seek the City's comment under IDAPA 37.03.08.05.g. We would be pleased to answer any questions and provide a tour of the project. We assume the City will have no comment if IDWR has not heard from you by May 7, 2001.

Sincerely,



John Chapman  
Water Services Manager

JC/sms

Attachments

MICROFILMED

SEP 23 2002

*The future of memory*

# The Idaho Statesman

RECEIVED

APR 30 2001

WATER RESOURCES  
WESTERN REGION

P.O. Box 40, Boise, Idaho 83707-0040

## LEGAL ADVERTISING PROOF OF PUBLICATION

|                                                                                    |        |                             |                       |
|------------------------------------------------------------------------------------|--------|-----------------------------|-----------------------|
| Account #                                                                          | DTI#   | Identification              | Amount                |
| 047628                                                                             | 434321 | APPLICATION FOR WATER RIGHT | \$66.96               |
| Ordered by:                                                                        | P.O. # | Rate                        | Run Dates             |
| SUE TAYLOR                                                                         |        | NT                          | APRIL 19, 26, 2001    |
| IDAHO DEPARTMENT OF WATER RESOURCES WEST<br>2735 AIRPORT WAY<br>BOISE, IDAHO 83705 |        |                             | Number of Lines<br>41 |
|                                                                                    |        |                             | Affidavit<br>1        |
|                                                                                    |        |                             | Legal #<br>10145      |

### LEGAL NOTICE APPLICATION FOR WATER RIGHT

MICRON TECHNOLOGY INC. of 8000 S. Federal Way, PO Box 6, Boise, ID 83707 has applied to the Department of Water Resources for the following water right in T2N R3E, Ada County.

#63-31183 filed on 1/24/2001 for ground water for irrigation and year around industrial use. Irrigation will include 2 cfs for 100 acres, industrial use will include 10 cfs, and the total amount of water will be 10 cfs. Water will be diverted from 3 existing wells and 1 proposed well in SESW S6 and SWNE, SWNW & NESW S7. Water will be used in portions of Section 6, 7, 8 and 18 for the Micron site east of Federal Way near the Interstate 84 Gowen exit in southeast Boise.

Applicant proposes to mitigate use of ground water to be withdrawn from the 600 to 1200 feet water bearing zone. Also see related Transfer Application no. 68944.

The permit(s) will be subject to all prior water rights. Protests may be submitted based on the criteria of Idaho Code §42-203A. Any protests against approval of this application must be filed with the Department of Water Resources, Western Region, 2735 Airport Way, Boise, ID 83705-5082, together with a protest fee of \$25.00 for each application on or before May 7, 2001. The protestant must also send a copy of the protest to the applicant.

Karl J. Dreher, Director

Pub. Apr. 19, 26, 2001

10145

JANICE HILDRETH, being duly sworn, deposes and says: That she is the Principal Clerk of *The Idaho Statesman*, a daily newspaper printed and published at Boise, Ada County, State of Idaho, and having a general circulation therein, and which said newspaper has been continuously and uninterruptedly published in said County during a period of twelve consecutive months prior to the first publication of the notice, a copy of which is attached hereto: that said notice was published in *The Idaho Statesman*, in conformity with Section 60-108, Idaho Code, as amended for:

TWO

☒ consecutive weekly ☐ single  
☐ consecutive daily ☐ odd skip  
insertion(s)

beginning with the issue of: APRIL 19, 2001

and ending with the issue of: APRIL 26, 2001

*Janice Hildreth*

STATE OF IDAHO )  
 )ss  
COUNTY OF ADA )

On this 26 day of APRIL in the year of 2001 before me, a Notary Public, personally appeared before me Janice Hildreth known or identified to me to be the person whose name subscribed to the within instrument, and being by me first duly sworn, declared that the statements therein are true, and acknowledged to me that she executed the same.

*Sandra L. Brigham*

Notary Public for Idaho  
Residing at: Boise, Idaho  
My Commission expires: 6/20/06



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APR 21 2002



Micron Technology, Inc.  
8000 S. Federal Way  
P.O. Box 6  
Boise, ID 83707-0006  
208.368.4000

April 18, 2001

Mr. Steve Lester *SL*  
Water Rights Supervisor  
Western Region  
Idaho Department of Water Resources  
2735 Airport Way  
Boise, ID 83705-5082

RECEIVED  
APR 20 2001  
WATER RESOURCES  
WESTERN REGION

Re: Application for Permit No. 63-31183 and Application for Transfer No. 68944

Dear Steve:

In response to your letter of April 9, 2001, we have compiled the following additional information required for processing of the above-referenced applications.

- **Plat of All Wells and Springs within ½ Mile of Proposed Well Sites.** A map and accompanying table are attached showing the location of known active and inactive wells within ½ mile of the wells proposed as points of diversion under 63-31183. Well locations were determined by both ground search and search of Department well log files.
- **Annual Consumptive Volume.** During calendar year 2000, Micron utilized 2824 acre feet of water from on-site wells and United Water Idaho for industrial use, and discharged 2681 acre feet of treated industrial wastewater to the City of Boise municipal wastewater treatment system. Based on these measured volumes, consumptive use at Micron is currently 5 percent. In the future, consumption may vary depending on the method of wastewater treatment or reuse.
- **Letter of Comment from Regulatory Agencies.** Enclosed please find copies of letters sent by Micron to the applicable agencies (City of Boise and IDEQ) seeking comment on the application for permit. We have requested that the agencies send their comments directly to your office by May 15, 2001. We have omitted a request to Ada County based on your discussion with Mike McIntyre on April the 16, 2001.

In addition to the requested additional information, we have the following comments.

- **Out of Priority Delivery of 63-31183.** We noted that the advertisement for 63-31183 says "The permit(s) will be subject to all prior water rights." We agree that the water right should be subject to all prior rights relative to direct well interference. However, we believe that the diversions under 63-31183 will be fully mitigated through injection of surface water. Therefore, diversion under 63-31183 should not be subject to priority curtailment in the event that the aquifer becomes depleted by senior rights resulting in a delivery call.

\* not enclosed, need this  
OK - received 7/19/01

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SEP 23 2002

The future of memory

— LARGE DIVERSION  
RESPONSE —

Mr. Steve Lester  
April 18, 2001  
Page 2

- **Need for Transfer of Water Rights 63-9357, 63-10208, and 63-11293.** In reference to second paragraph on Page 2 of your April 9, 2001 letter, we do not plan to file a transfer at this time for Micron's existing groundwater rights (63-9357, 63-10208, and 63-11293). We recognize that a transfer will be required in the future if we intend to divert water under these rights for use outside of the currently authorized place of use or from diversion points that are not currently authorized (i.e., Gowen Well, Oregon Trail Well, or future Micron Well No. 6). In the meantime, we plan to divert these three water rights only from the currently authorized diversion points for use within the currently authorized place of use.

Thank you for your assistance with these applications. Please contact me if you have any questions or if you need additional information.

Sincerely,



John Chapman  
Water Services Manager

JC/sms

Enclosures

cc: Michael McIntyre  
Terry Scanlan

MICROFILMED  
SEP 23 2002

# SCANLAN ENGINEERING

*Groundwater and Environmental Engineering*

April 18, 2001

John Chapman  
Micron Technology, Inc.  
8000 South Federal Way  
P.O. Box 6  
Boise, ID 83707-0006

Subject: Well Search for Water Right Application 63-31183

Dear John:

As requested by Steve Lester's letter of April 9, 2001, I have prepared the enclosed map showing all known existing and permitted wells within ½ mile of the wells proposed as diversion points by Micron's application for permit 63-31183.

The following sources of information were used to compile the map.

1. Review of IDWR well log computer database.
2. Ground search.
3. Review of existing reports on local groundwater conditions (Squires and others, 1993).
4. Personal knowledge of local wells.

Known or suspected well locations are shown on the map and listed on the attached table. Wells that are known to have been properly abandoned (such as Micron Well No. 1) are not shown.

Seven wells not owned by Micron were visually located or are suspected to exist. All of these wells are believed to be inactive as described below.

1. Three wells are located along Eisenman Road (Blue Valley #1, Blue Valley #2, and Eisenman/Trinity Trailer). United Water Idaho provides water service to these properties.
2. Three wells are located west of Federal Way in Sections 1 and 6 (Willis Shaw, Idaho Auto Auction, and United Campground). These wells are believed to be either inactive or abandoned. United Water Idaho currently provides water service to these properties.
3. A small well shelter is visible on a property located south of the Micron Pettibone well. The well appears to be inactive, as the home or business formerly associated with the well has been demolished. Ownership of the well was not determined.

SEP 23 2002

The remaining wells within the search area are all owned by Micron. Five of these wells (No. 2, Test, Deep Observation, Shallow Observation, and Pettibone) are used for observation and monitoring purposes. Three wells (Nos. 3, 4, and 5) are currently used for production. Well No. 5 is also used for recharge purposes. Well No. 6 is a proposed well site.

Please contact me with any questions.

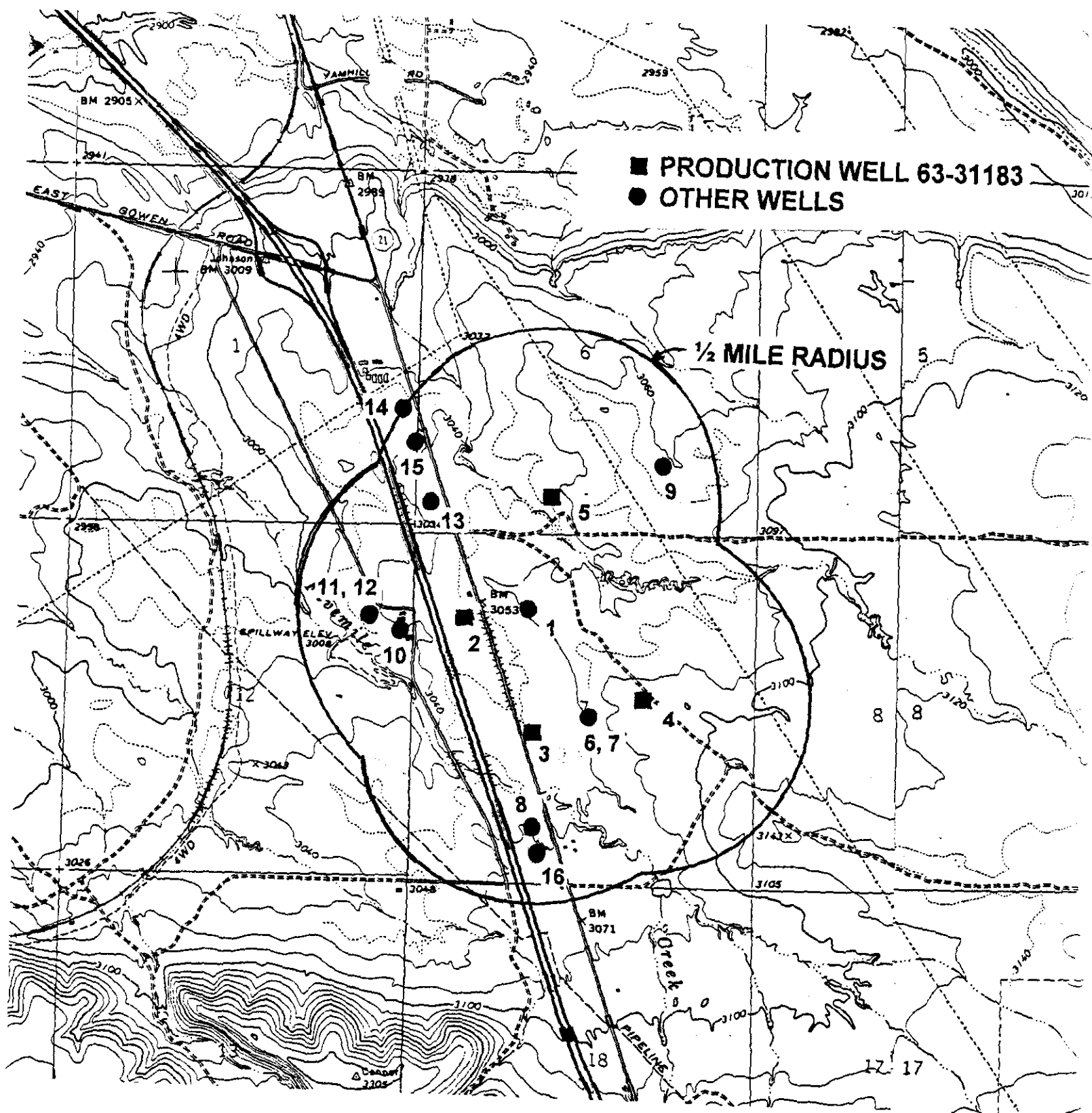
Sincerely,

A handwritten signature in cursive script, reading "Terry M. Scanlan".

Terry M. Scanlan, P.E.

Enclosures

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SEP 23 2002



**WELLS LOCATED WITHIN 1/2 MILE OF  
 PRODUCTION WELLS PROPOSED BY  
 APPLICATION FOR PERMIT 63-31183**

SEP 23 2002

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SEP 23 2002

**WELLS LOCATED WITHIN 1/2 MILE OF DIVERSION POINTS PROPOSED BY APPLICATION 63-31183**

| Map No. | Owner (Well Name)            | Use        | Status   | Township | Range | Section | Tract |
|---------|------------------------------|------------|----------|----------|-------|---------|-------|
| 1       | Micron (Well No. 2)          | Monitoring | Active   | 02N      | 03E   | 7       | NENW  |
| 2       | Micron (Well No. 3)          | Industrial | Active   | 02N      | 03E   | 7       | SWNW  |
| 3       | Micron (Well No. 4)          | Industrial | Active   | 02N      | 03E   | 7       | NESW  |
| 4       | Micron (Well No. 5)          | Industrial | Active   | 02N      | 03E   | 7       | SWNE  |
| 5       | Micron (Well No. 6)          | Industrial | Proposed | 02N      | 03E   | 6       | SESW  |
| 6       | Micron (Deep Observation)    | Monitoring | Active   | 02N      | 03E   | 7       | NWSE  |
| 7       | Micron (Shallow Observation) | Monitoring | Active   | 02N      | 03E   | 7       | NWSE  |
| 8       | Micron (Pettibone)           | Monitoring | Active   | 02N      | 03E   | 7       | SESW  |
| 9       | Micron (Test)                | Monitoring | Active   | 02N      | 03E   | 6       | SWSE  |
| 10      | Eisenman/Trinity Trailer     | Domestic   | Inactive | 02N      | 02E   | 12      | SENE  |
| 11      | Blue Valley (#1)             | Domestic   | Inactive | 02N      | 02E   | 12      | SENE  |
| 12      | Blue Valley (#2)             | Domestic   | Inactive | 02N      | 02E   | 12      | SENE  |
| 13      | Willis Shaw                  | Domestic   | Inactive | 02N      | 02E   | 1       | SESE  |
| 14      | United Campground            | Domestic   | Inactive | 02N      | 02E   | 1       | NESE  |
| 15      | Idaho Auto Auction           | Domestic   | Inactive | 02N      | 02E   | 1       | SESE  |
| 16      | unknown                      | Domestic   | Inactive | 02N      | 03E   | 7       | SESW  |



State of Idaho

DEPARTMENT OF WATER RESOURCES

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

FAX (208) 334-2348

April 18, 2001

DIRK KEMPTHORNE  
Governor

KARL J. DREHER  
Director

VIC CONRAD  
JR SIMPLOT CO  
PO BOX 27  
BOISE ID 83707-0027

Re: Application for Water Right No. 63-31183 in the Name of Micron Technology.  
Application for Transfer No. 68944 in the Name of Micron Technology.

Dear Sir and/or Madam:

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

This office normally completes the processing of an application within a six-week period and is required to take final action shortly thereafter. However, if you desire to file a formal protest against the approval of this application(s), your written protest along with the \$25.00 protest fee must be received in this office by May 7, 2001.

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

Sincerely,

Gary Spackman

GS:lm

Encl: Copy of Application

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SEP 23 2002



State of Idaho

DEPARTMENT OF WATER RESOURCES

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

FAX (208) 334-2348

April 18, 2001

DIRK KEMPTHORNE  
Governor

KARL J. DREHER  
Director

BILL BACHMAN  
CROMAN CORP  
1625 YAMHILL RD  
BOSIE ID 83716

Re: Application for Water Right No. 63-31183 in the Name of Micron Technology.  
Application for Transfer No. 68944 in the Name of Micron Technology.

Dear Mr. Bachman:

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

This office normally completes the processing of an application within a six-week period and is required to take final action shortly thereafter. However, if you desire to file a formal protest against the approval of this application(s), your written protest along with the \$25.00 protest fee must be received in this office by May 7, 2001.

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

Sincerely,

Gary Spackman

GS:lm

Encl: Copy of Application

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SEP 23 2002



State of Idaho

DEPARTMENT OF WATER RESOURCES

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

FAX (208) 334-2348

April 18, 2001

DIRK KEMPTHORNE  
Governor

KARL J. DREHER  
Director

ED SQUIRES  
HYDRO LOGIC INC  
1530 KNIGHTS DR  
BOISE ID 83712

Re: Application for Water Right No. 63-31183 in the Name of Micron Technology.  
Application for Transfer No. 68944 in the Name of Micron Technology.

Dear Mr. Squires:

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

This office normally completes the processing of an application within a six-week period and is required to take final action shortly thereafter. However, if you desire to file a formal protest against the approval of this application(s), your written protest along with the \$25.00 protest fee must be received in this office by May 7, 2001.

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

Sincerely,

A handwritten signature in cursive script that reads "Gary Spackman".

Gary Spackman

GS:lm

Encl: Copy of Application

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SEP 23 2002



State of Idaho

DEPARTMENT OF WATER RESOURCES

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

April 18, 2001

DIRK KEMPTHORNE  
Governor

KARL J. DREHER  
Director

CHAS F MCDEVITT  
LES BOIS SOCCER  
PO BOX 2564  
BOISE ID 83701-2564

Re: Application for Water Right No. 63-31183 in the Name of Micron Technology.  
Application for Transfer No. 68944 in the Name of Micron Technology.

Dear Mr. McDevitt:

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

This office normally completes the processing of an application within a six-week period and is required to take final action shortly thereafter. However, if you desire to file a formal protest against the approval of this application(s), your written protest along with the \$25.00 protest fee must be received in this office by May 7, 2001.

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

Sincerely,

A handwritten signature in black ink that reads 'Gary Spackman'. The signature is written in a cursive, flowing style.

Gary Spackman

GS:lm

Encl: Copy of Application

MICROFILMED  
SEP 23 2002



State of Idaho

DEPARTMENT OF WATER RESOURCES

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

FAX (208) 334-2348

April 18, 2001

DIRK KEMPTHORNE  
Governor

KARL J. DREHER  
Director

CATHERINE CHERTUDI  
CITY OF BOISE  
PO BOX 500  
BOISE ID 83701-0500

Re: Application for Water Right No. 63-31183 in the Name of Micron Technology.  
Application for Transfer No. 68944 in the Name of Micron Technology.

Dear Ms. Chertudi:

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

This office normally completes the processing of an application within a six-week period and is required to take final action shortly thereafter. However, if you desire to file a formal protest against the approval of this application(s), your written protest along with the \$25.00 protest fee must be received in this office by May 7, 2001.

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

Sincerely,

Gary Spackman

GS:lm

Encl: Copy of Application

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SEP 23 2002



State of Idaho

DEPARTMENT OF WATER RESOURCES

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

FAX (208) 334-2348

April 18, 2001

DIRK KEMPTHORNE  
Governor

KARL J. DREHER  
Director

BEN HEPLER  
UNITED WATER ID  
PO BOX 7488  
BOISE ID 83707

Re: Application for Water Right No. 63-31183 in the Name of Micron Technology.  
Application for Transfer No. 68944 in the Name of Micron Technology.

Dear Mr. Hepler:

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

This office normally completes the processing of an application within a six-week period and is required to take final action shortly thereafter. However, if you desire to file a formal protest against the approval of this application(s), your written protest along with the \$25.00 protest fee must be received in this office by May 7, 2001.

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

Sincerely,

Gary Spackman

GS:lm

Encl: Copy of Application

MICROFILMED  
SEP 23 2002



State of Idaho

DEPARTMENT OF WATER RESOURCES

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

FAX (208) 334-2348

DIRK KEMPTHORNE  
Governor

KARL J. DREHER  
Director

April 9, 2001

JOHN CHAPMAN  
WATER SERVICES MANAGER  
MICRON TECHNOLOGY INC  
PO BOX 6  
BOISE ID 83707-0006

*Re: Application for Permit No. 63-31183 and Application for Transfer No. 68944*

Dear John:

I am writing to request additional information for the above referenced applications. First, let me inform you that legal notices should be published in the *Idaho Statesman* on April 19 and 26, 2001. Enclosed are copies of the legal notices, which were sent by email to Mike McIntyre and Terry Scanlan earlier today per their request.

Application No. 63-31183 includes four possible wells for 10 cfs. *Water Appropriation Rule Subsection 040.05.c* requires additional information for applications for permit exceeding 5 cfs. In this case, an abbreviated response will suffice due to the atypical aspects of the filing, the obvious and considerable assets held by Micron Technology, and the ongoing monitoring etc. efforts surrounding the proposed project.

Enclosed is a copy of the rule with the pertinent items highlighted for your convenience. Only those highlighted items need to be addressed. The items to be addressed are summarized as follows.

- ✓ • Item cii - a plat with reference to all the wells listed in the application
- ✓ • Item di - information about the annual consumptive volume for the proposed diversion rate
- ✓ • Item g - letters to be submitted by the applicant from the City of Boise, the Ada County Commissioners, and the Idaho Department of Environmental Quality.

City - yes  
County - no since in city jurisdiction

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SEP 23 2002

u/26/01  
rep/2

OK  
7/9/01



Micron Application Nos. 63-31183 and 68944  
April 9, 2001  
Page 2 of 2

**Application No. 68944** involves a change to two municipal licenses. The wells listed in Application 63-31183 and the Oregon Trail and Gowen wells are described by the transfer application. It is inferred that an integrated well system will be achieved for the Micron site in Boise.

The existing Micron wells are known as well nos. 3, 4 and 5, which are diversion points identified under prior approval for Micron water right nos. 63-9357, 63-10208 and 63-11293. Any integration of one or more of the Oregon Trail, Gowen or proposed Micron no. 6 wells with well nos. 3 through 5 for a common system will require additional transfer approval to update the complete diversion points for Micron's three other water rights. This step can be achieved by amending Transfer Application 68944 or by filing a subsequent transfer. Either option will involve additional legal notices.

*declines to  
file now...  
this is ok  
per gary s.*

Please submit Rule 040.05.c information and address the additional transfer issue within thirty (30) days of the date of this letter. If the information is not timely submitted, the applications will be removed from the records of this agency. Thank you for your attention to these matters. Please let me know if I can be of assistance.

Sincerely,



Steve Lester  
Water Rights Supervisor

Enclosure

MICROFILMED

SEP 23 2002

## MEMORANDUM

To: Steve Lester *SL*

From: Gary Spackman *Gary*

Date: March 5, 2001

Re: Micron Recharge Withdrawal Application - Affirmative Preliminary Determination

Micron Technology filed an application for a new water right proposing to divert ground water underlying the SE Boise GWMA. The application proposes recovery of water that will be recharged to the aquifer from the Boise River through the Micron water treatment plant. The proper documentation of this recharge and recovery has previously been discussed at length with IDWR administration. Because there is no single procedure for recognition of aquifer storage and recovery, IDWR determined with Micron that a new water right permit must be obtained before water could be recovered.

This memorandum is a preliminary determination that, because the volume of water recharged into the aquifer will equal or exceed the volume of water withdrawn, Micron's proposed withdrawal of water will not injure other water users and water will be available for the proposed appropriation.

c. Norm Young

MICROFILMED

SEP 23 2002

## MEMORANDUM

TO: Gary Spackman  
FROM: Steve Lester   
DATE: February 23, 2001

**RE :** *Micron Technology Applications*

---

Micron filed applications for permit and for transfer within the SE Boise GWMA. Attached are copies of the applications and the 1994 order establishing the management area.

Order No. 4 requires an "affirmative preliminary determination" for an application for permit prior to processing the application. If the department affirms the filing, so to speak, we should process both applications. It is probably better to delay processing the transfer until the permit application is "affirmed." Comment letters will be sent to the GWMA advisory committee during processing.

The permit application is to allow Micron to recapture surface water injected into the GWMA aquifer. "Recaptured water" will be diverted from Micron's three existing wells and one proposed well. The transfer application proposes to pump water in addition to "recaptured water." The transfer seeks to change the nature of use of two rights recently obtained from United Water. The "municipal water" will be diverted from some combination of up to six wells: Gowen and Oregon Trail wells, and Micron's wells listed in the permit application. A disturbing aspect of the transfer proposal is a return to more pumping after the significant decline in pumping over the last few years (21% reduction in reported withdrawals from 1995 through 1999). That does not sound like progress.

I will wait to hear from you and/or the State Office before processing either application. If processing can occur, I will draft the legal notices for your review. Any processing suggestions from you or from others will be welcome.

MICROFILMED  
SEP 23 2002

the provisions of IDAPA rule 37.03.11 and the Administrative Procedure Act.

**ORDER**

NOW, THEREFORE, IT IS HEREBY ORDERED as follows:

1. The following described area is included within and designated as the "Southeast Boise Ground Water Management Area" (SBGWMA) pursuant to the provisions of Section 42-233b, Idaho Code:

Sections 25 and 36, Township 3 North, Range 2 East, B.M.  
Sections 1, 12 and 13, Township 2 North, Range 2 East, B.M.  
Sections 30, 31 and 32, Township 3 North, Range 3 East, B.M.  
Sections 4, 5, 6, 7, 8, 9, 16, 17 and 18, Township 2 North, Range 3 East, B.M.

2. Water users who divert ground water at a rate in excess of 0.20 cfs within the SBGWMA are required to install Department-approved monitoring equipment, and to participate in a data collection and reporting process, to be established by the Department in cooperation with the Advisory Committee.

3. A water user or an applicant who proposes to construct, repair, deepen or enlarge a well located within the SBGWMA is required to submit for review and approval a drilling prospectus with each application for a drilling permit.

4. An applicant for appropriation of ground water within the SBGWMA is required to furnish sufficient technical data and plans to allow a preliminary determination by the Director that water is available, that existing users will not be injured, and that depletion of the aquifer will not be increased. Applications will not be advertised and protest hearings will not be scheduled until an affirmative preliminary determination is made by the Department.

5. The Southeast Boise Ground Water Management Area

MICROFILMED

SEP 23 2002

10/14/1994 → Order Designating the Southeast Boise GWMA - Page 10

## REQUEST TO PROCESS

COMPLETE REQUEST IF YOU WANT YOUR APPLICATION TO BE PROCESSED USING ONE OF THE  
THREE ALTERNATIVES BELOW

Name of Applicant Micron Technology, Inc.  
Mailing Address 8000 South Federal Way  
P.O. Box 6  
Boise, ID 83707-0006  
Application No(s): 63- 31183  
(if known)

☐ IN LOCAL PUBLIC INTEREST

Yes, I want my application processed and before it is advertised, I will amend my application to demonstrate that the proposed appropriation is in the local public interest including the need to preserve flows in the Snake River during the migration periods of anadromous fish.

☒ PROPOSE MITIGATION NOW

As currently proposed, the application fully mitigates ~~Yes, I want my application processed and before it is advertised, I will amend my application to demonstrate that the proposed appropriation is in the local public interest including the need to preserve flows in the Snake River during the migration periods of anadromous fish.~~ Yes, I want my application processed and before it is advertised, I will amend my application to demonstrate that the proposed appropriation is in the local public interest including the need to preserve flows in the Snake River during the migration periods of anadromous fish. Mitigation by aquifer recharge is currently proposed.

☐ WILL AGREE TO MITIGATION IN THE FUTURE IF NECESSARY

Yes, I want my application processed at this time, and I will accept a condition of approval that will require mitigation should the Director of the Idaho Department of Water Resources determine that mitigation is necessary to offset depletions from this appropriation to flows in the Snake River during periods of anadromous fish migration. I understand that mitigation is not required now but may be in the future. I also understand that the Director will not require mitigation until I have an opportunity to review the process by which the need for mitigation is established and the amount of water required is quantified.

Signature

Date

John J. [Signature]  
12-20-00

Please return this form to:

Idaho Dept. of Water Resources  
State Office  
1301 N. Orchard Rd.  
Boise ID 83706

MICROFILMED  
SEP 23 2002

1-24-01

## WELL LOGS

63-31183

MICROFILMED  
SEP 23 2002

1-24-01

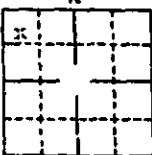
## WELL DRILLER'S REPORT

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.

Well #3

1/2

Page 1 of 2

| <b>1. WELL OWNER</b><br>Name <u>Micron Technology</u><br>Address <u>2805 E. Columbia, Boise, ID 83706</u><br>Drilling Permit No. <u>63-90-W-087</u><br>Water Right Permit No. <u>63-11293</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |               | <b>7. WATER LEVEL</b><br>Static water level <u>405</u> feet below land surface.<br>Flowing? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No G.P.M. flow _____<br>Artesian closed-in pressure _____ p.s.i.<br>Controlled by: <input type="checkbox"/> Valve <input type="checkbox"/> Cap <input type="checkbox"/> Plug<br>Temperature <u>79</u> of. Quality _____<br><i>Describe artesian or temperature zones below.</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                  |                  |               |              |           |           |          |             |           |        |         |          |  |  |   |   |  |  |  |   |    |                 |  |    |    |     |           |  |    |     |     |                             |  |  |     |     |                            |  |  |     |     |                               |  |  |     |     |                                 |  |  |     |     |                                            |  |  |     |     |                               |  |  |     |     |                     |  |  |     |     |                                 |   |  |     |     |                                              |   |  |     |     |                                                  |  |  |     |     |                            |   |  |     |     |                                       |  |  |     |     |                                 |  |  |     |     |                                              |   |  |     |     |                                 |  |  |     |     |                            |   |    |     |     |                                 |  |    |     |     |                         |  |  |     |     |                                              |   |  |     |     |                   |  |  |     |     |                       |   |  |     |     |                              |  |  |     |     |                     |  |  |     |     |                              |  |  |     |     |                      |  |    |     |     |                           |   |
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| <b>2. NATURE OF WORK</b><br><input checked="" type="checkbox"/> New well <input type="checkbox"/> Deepened <input type="checkbox"/> Replacement<br><input type="checkbox"/> Well diameter increase<br><input type="checkbox"/> Abandoned (describe abandonment procedures such as materials, plug depths, etc. in lithologic log)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |               | <b>8. WELL TEST DATA</b><br><input checked="" type="checkbox"/> Pump <input type="checkbox"/> Bailer <input type="checkbox"/> Air <input type="checkbox"/> Other _____<br><table border="1"><thead><tr><th>Discharge G.P.M.</th><th>Pumping Level</th><th>Hours Pumped</th></tr></thead><tbody><tr><td>1400</td><td>473'</td><td>24</td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr></tbody></table>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                  | Discharge G.P.M. | Pumping Level | Hours Pumped | 1400      | 473'      | 24       |             |           |        |         |          |  |  |   |   |  |  |  |   |    |                 |  |    |    |     |           |  |    |     |     |                             |  |  |     |     |                            |  |  |     |     |                               |  |  |     |     |                                 |  |  |     |     |                                            |  |  |     |     |                               |  |  |     |     |                     |  |  |     |     |                                 |   |  |     |     |                                              |   |  |     |     |                                                  |  |  |     |     |                            |   |  |     |     |                                       |  |  |     |     |                                 |  |  |     |     |                                              |   |  |     |     |                                 |  |  |     |     |                            |   |    |     |     |                                 |  |    |     |     |                         |  |  |     |     |                                              |   |  |     |     |                   |  |  |     |     |                       |   |  |     |     |                              |  |  |     |     |                     |  |  |     |     |                              |  |  |     |     |                      |  |    |     |     |                           |   |
| Discharge G.P.M.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       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| 1400                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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| <b>3. PROPOSED USE</b><br><input type="checkbox"/> Domestic <input type="checkbox"/> Irrigation <input type="checkbox"/> Test <input type="checkbox"/> Municipal<br><input checked="" type="checkbox"/> Industrial <input type="checkbox"/> Stock <input type="checkbox"/> Waste Disposal or Injection<br><input type="checkbox"/> Other _____ (specify type)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |               | <b>9. LITHOLOGIC LOG</b> <table border="1"><thead><tr><th rowspan="2">Bore<br/>Diam.</th><th colspan="2">Depth</th><th rowspan="2">Material</th><th rowspan="2">W.<br/>Yes</th></tr><tr><th>From</th><th>To</th></tr></thead><tbody><tr><td>24</td><td>0</td><td>2</td><td>Top soil</td><td></td></tr><tr><td></td><td>2</td><td>5</td><td></td><td></td></tr><tr><td></td><td>5</td><td>10</td><td>Cemented Gravel</td><td></td></tr><tr><td>24</td><td>10</td><td>168</td><td>Lava rock</td><td></td></tr><tr><td>16</td><td>168</td><td>210</td><td>Hard packed brown &amp; cobbles</td><td></td></tr><tr><td></td><td>210</td><td>218</td><td>Course brown sand &amp; gravel</td><td></td></tr><tr><td></td><td>218</td><td>260</td><td>Hard packed silty sand &amp; clay</td><td></td></tr><tr><td></td><td>260</td><td>266</td><td>Light brown sand &amp; small gravel</td><td></td></tr><tr><td></td><td>266</td><td>285</td><td>Light brown med to coarse sand<br/>and clay</td><td></td></tr><tr><td></td><td>285</td><td>340</td><td>Brown hand packed sand &amp; clay</td><td></td></tr><tr><td></td><td>340</td><td>366</td><td>Course brown gravel</td><td></td></tr><tr><td></td><td>366</td><td>401</td><td>Med to fine brown sand &amp; gravel</td><td>X</td></tr><tr><td></td><td>401</td><td>410</td><td>Brown course sand &amp; gravel<br/>traces of clay</td><td>X</td></tr><tr><td></td><td>410</td><td>422</td><td>Brown med to course hand<br/>packed sand &amp; gravel</td><td></td></tr><tr><td></td><td>422</td><td>440</td><td>Brown course sand &amp; gravel</td><td>X</td></tr><tr><td></td><td>440</td><td>452</td><td>Brown clay &amp; silty sand<br/>and gravel</td><td></td></tr><tr><td></td><td>452</td><td>520</td><td>Hand packed brown sand &amp; gravel</td><td></td></tr><tr><td></td><td>520</td><td>529</td><td>Med to course brown sand and<br/>small gravel</td><td>X</td></tr><tr><td></td><td>529</td><td>580</td><td>Course brown sand gravel &amp; clay</td><td></td></tr><tr><td></td><td>580</td><td>589</td><td>course brown sand &amp; gravel</td><td>X</td></tr><tr><td>16</td><td>589</td><td>640</td><td>Redish brown clay sand &amp; gravel</td><td></td></tr><tr><td>12</td><td>640</td><td>650</td><td>Gray clay sand &amp; gravel</td><td></td></tr><tr><td></td><td>650</td><td>675</td><td>Grayish brown med to course<br/>sand &amp; gravel</td><td>X</td></tr><tr><td></td><td>675</td><td>695</td><td>Brown sand &amp; clay</td><td></td></tr><tr><td></td><td>695</td><td>704</td><td>Fine light brown sand</td><td>X</td></tr><tr><td></td><td>704</td><td>750</td><td>Soft light brown clay &amp; sand</td><td></td></tr><tr><td></td><td>750</td><td>765</td><td>Brown clay and sand</td><td></td></tr><tr><td></td><td>765</td><td>770</td><td>Redish brown clay and gravel</td><td></td></tr><tr><td></td><td>770</td><td>795</td><td>Gray clay and gravel</td><td></td></tr><tr><td>12</td><td>795</td><td>805</td><td>Brown sand traces of clay</td><td>X</td></tr></tbody></table> |                                                  | Bore<br>Diam.    | Depth         |              | Material  | W.<br>Yes | From     | To          | 24        | 0      | 2       | Top soil |  |  | 2 | 5 |  |  |  | 5 | 10 | Cemented Gravel |  | 24 | 10 | 168 | Lava rock |  | 16 | 168 | 210 | Hard packed brown & cobbles |  |  | 210 | 218 | Course brown sand & gravel |  |  | 218 | 260 | Hard packed silty sand & clay |  |  | 260 | 266 | Light brown sand & small gravel |  |  | 266 | 285 | Light brown med to coarse sand<br>and clay |  |  | 285 | 340 | Brown hand packed sand & clay |  |  | 340 | 366 | Course brown gravel |  |  | 366 | 401 | Med to fine brown sand & gravel | X |  | 401 | 410 | Brown course sand & gravel<br>traces of clay | X |  | 410 | 422 | Brown med to course hand<br>packed sand & gravel |  |  | 422 | 440 | Brown course sand & gravel | X |  | 440 | 452 | Brown clay & silty sand<br>and gravel |  |  | 452 | 520 | Hand packed brown sand & gravel |  |  | 520 | 529 | Med to course brown sand and<br>small gravel | X |  | 529 | 580 | Course brown sand gravel & clay |  |  | 580 | 589 | course brown sand & gravel | X | 16 | 589 | 640 | Redish brown clay sand & gravel |  | 12 | 640 | 650 | Gray clay sand & gravel |  |  | 650 | 675 | Grayish brown med to course<br>sand & gravel | X |  | 675 | 695 | Brown sand & clay |  |  | 695 | 704 | Fine light brown sand | X |  | 704 | 750 | Soft light brown clay & sand |  |  | 750 | 765 | Brown clay and sand |  |  | 765 | 770 | Redish brown clay and gravel |  |  | 770 | 795 | Gray clay and gravel |  | 12 | 795 | 805 | Brown sand traces of clay | X |
| Bore<br>Diam.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          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| <b>4. METHOD DRILLED</b><br><input type="checkbox"/> Rotary <input type="checkbox"/> Air <input type="checkbox"/> Hydraulic <input type="checkbox"/> Reverse rotary<br><input checked="" type="checkbox"/> Cable <input type="checkbox"/> Dug <input type="checkbox"/> Other _____                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             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| <b>5. WELL CONSTRUCTION</b><br>Casing schedule: <input checked="" type="checkbox"/> Steel <input type="checkbox"/> Concrete <input type="checkbox"/> Other _____ <table border="1"><thead><tr><th>Thickness</th><th>Diameter</th><th>From</th><th>To</th></tr></thead><tbody><tr><td>.375 inches</td><td>16 inches</td><td>0 feet</td><td>600 feet</td></tr><tr><td>.250 inches</td><td>20 inches</td><td>0 feet</td><td>40 feet</td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr></tbody></table><br>Was casing drive shoe used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No<br>Was a packer or seal used? <input type="checkbox"/> Yes <input type="checkbox"/> No<br>Perforated? <input type="checkbox"/> Yes <input type="checkbox"/> No<br>How perforated? <input type="checkbox"/> Factory <input type="checkbox"/> Knife <input type="checkbox"/> Torch <input type="checkbox"/> Gun<br>Size of perforation _____ inches by _____ inches<br>Number _____ perforations _____ feet _____ feet<br>_____ perforations _____ feet _____ feet<br>_____ perforations _____ feet _____ feet<br>Well screen installed? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No<br>Manufacturer's name <u>Johnson Well Screen</u><br>Type <u>Stainless Steel</u> Model No. <u>304</u><br>Diameter <u>8"</u> Slot size <u>60</u> Set from <u>600</u> feet to <u>865</u> feet<br>Diameter <u>8"</u> Slot size <u>15</u> Set from <u>865</u> feet to <u>995</u> feet<br>Gravel packed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Size of gravel _____<br>Placed from _____ feet to _____ feet<br>Surface seal depth <u>168</u> Material used in seal: <input checked="" type="checkbox"/> Cement grout<br><input checked="" type="checkbox"/> Bentonite <input type="checkbox"/> Puddling clay <input type="checkbox"/> _____<br>Sealing procedure used: <input type="checkbox"/> Slurry pit <input type="checkbox"/> Temp. surface casing<br><input checked="" type="checkbox"/> Overbore to seal depth<br>Method of joining casing: <input type="checkbox"/> Threaded <input checked="" type="checkbox"/> Welded <input type="checkbox"/> Solvent<br>Weld<br><input type="checkbox"/> Cemented between strata<br>Describe access port <u>2" Pipe welded to casing</u> |               | Thickness                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          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| .250 inches                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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| <b>6. LOCATION OF WELL</b><br>Sketch map location must agree with written location.<br><br>County <u>Ada</u><br>Subdivision Name _____<br>Lot No. _____ Block No. _____<br>MICROFILMED<br>SEP 23 2002<br>NW 1/4 NW 1/4 Sec. 7, T. 2, S. 3, E. 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                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| <b>11. DRILLERS CERTIFICATION</b><br>I/We certify that all minimum well construction standards were complied with at the time the rig was removed.<br>Firm Name <u>Hiddleston &amp; Son, Inc.</u> Firm No. <u>35</u><br>Rt. 3, Box 610-D<br>Address <u>Idaho Falls, ID 83417</u> Date <u>5/6/91</u><br>Signed by (Firm Official) <u>[Signature]</u><br>and<br>(Operator) <u>John Sullivan</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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                                                                                                                                                                                                                                                                             |                                                  |                  |               |              |           |           |          |             |           |        |         |          |  |  |   |   |  |  |  |   |    |                 |  |    |    |     |           |  |    |     |     |                             |  |  |     |     |                            |  |  |     |     |                               |  |  |     |     |                                 |  |  |     |     |                                            |  |  |     |     |                               |  |  |     |     |                     |  |  |     |     |                                 |   |  |     |     |                                              |   |  |     |     |                                                  |  |  |     |     |                            |   |  |     |     |                                       |  |  |     |     |                                 |  |  |     |     |                                              |   |  |     |     |                                 |  |  |     |     |                            |   |    |     |     |                                 |  |    |     |     |                         |  |  |     |     |                                              |   |  |     |     |                   |  |  |     |     |                       |   |  |     |     |                              |  |  |     |     |                     |  |  |     |     |                              |  |  |     |     |                      |  |    |     |     |                           |   |

## 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.

Page 2 of 2

Well #3

2/2

## 1. WELL OWNER

Name Micron Technology  
Address 2805 E. Columbia, Boise, ID 83706  
Drilling Permit No. 63-90-W-087  
Water Right Permit No. 63-11293

## 7. WATER LEVEL

Static water level \_\_\_\_\_ feet below land surface.  
Flowing? ☐ Yes ☐ No G.P.M. flow \_\_\_\_\_  
Artesian closed-in pressure \_\_\_\_\_ p.s.i.  
Controlled by: ☐ Valve ☐ Cap ☐ Plug  
Temperature \_\_\_\_\_ OF. Quality \_\_\_\_\_  
*Describe artesian or temperature zones below*

## 2. NATURE OF WORK

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

## 8. WELL TEST DATA

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

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

## 3. PROPOSED USE

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

## 9. LITHOLOGIC LOG

| Bore<br>Diam. | Depth |      | Material                       | Water<br>Yes |
|---------------|-------|------|--------------------------------|--------------|
|               | From  | To   |                                |              |
| 12            | 805   | 818  | Gray brown clay & sand         |              |
|               | 818   | 865  | Gray clay                      |              |
|               | 865   | 896  | Fine gray silty sand & clay    |              |
| 10            | 896   | 915  | Med to fine brown sand         |              |
|               |       |      | traces of clay                 | X            |
|               | 915   | 930  | Fine to med hard packed sand   |              |
|               |       |      | and clay                       |              |
|               | 930   | 945  | Med to fine brown sand         |              |
|               |       |      | traces of sand clay            | X            |
|               | 945   | 954  | Reddish brown hard packed sand |              |
|               | 954   | 985  | Med to coarse reddish brown    |              |
|               |       |      | sand                           | X            |
|               | 985   | 993  | Med to coarse hard sand        |              |
|               |       |      | and gravel                     |              |
|               | 993   | 998  | Med brown sand                 | X            |
|               | 998   | 1037 | Fine silty gray sand & clay    |              |
| 10            | 1037  | 1045 | Hard packed med to coarse      |              |
|               |       |      | brown sand & gravel            |              |

## 4. METHOD DRILLED

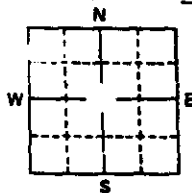
- ☐ Rotary ☐ Air ☐ Hydraulic ☐ Reverse rotary  
☐ Cable ☐ Dug ☐ Other \_\_\_\_\_

## 5. WELL CONSTRUCTION

Casing schedule: ☐ Steel ☐ Concrete ☐ Other \_\_\_\_\_  
Thickness \_\_\_\_\_ Diameter \_\_\_\_\_ From \_\_\_\_\_ To \_\_\_\_\_  
\_\_\_\_\_ inches \_\_\_\_\_ inches + \_\_\_\_\_ feet \_\_\_\_\_ feet  
\_\_\_\_\_ inches \_\_\_\_\_ inches \_\_\_\_\_ feet \_\_\_\_\_ feet  
\_\_\_\_\_ inches \_\_\_\_\_ inches \_\_\_\_\_ feet \_\_\_\_\_ feet  
\_\_\_\_\_ inches \_\_\_\_\_ inches \_\_\_\_\_ feet \_\_\_\_\_ feet  
Was casing drive shoe used? ☐ Yes ☐ No  
Was a packer or seal used? ☐ Yes ☐ No  
Perforated? ☐ Yes ☐ No  
How perforated? ☐ Factory ☐ Knife ☐ Torch ☐ Gun  
Size of perforation \_\_\_\_\_ inches by \_\_\_\_\_ inches  
Number \_\_\_\_\_ From \_\_\_\_\_ To \_\_\_\_\_  
\_\_\_\_\_ perforations \_\_\_\_\_ feet \_\_\_\_\_ feet  
\_\_\_\_\_ perforations \_\_\_\_\_ feet \_\_\_\_\_ feet  
\_\_\_\_\_ perforations \_\_\_\_\_ feet \_\_\_\_\_ feet  
Well screen installed? ☐ Yes ☐ No  
Manufacturer's name \_\_\_\_\_  
Type \_\_\_\_\_ Model No. \_\_\_\_\_  
Diameter \_\_\_\_\_ Slot size \_\_\_\_\_ Set from \_\_\_\_\_ feet to \_\_\_\_\_ feet  
Diameter \_\_\_\_\_ Slot size \_\_\_\_\_ Set from \_\_\_\_\_ feet to \_\_\_\_\_ feet  
Gravel packed? ☐ Yes ☐ No ☐ Size of gravel \_\_\_\_\_  
Placed from \_\_\_\_\_ feet to \_\_\_\_\_ feet  
Surface seal depth \_\_\_\_\_ Material used in seal: ☐ Cement grout  
☐ Bentonite ☐ Pudding 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 \_\_\_\_\_

## 6. LOCATION OF WELL

Sketch map location must agree with written location.



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

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

County Ada

NW ¼ NW ¼ Sec. 7, T. 2 N 30 E 30  
S 30 R. 3 W 30

## 10.

Work started 5/3/90 finished 4/30/91

## 11. DRILLERS CERTIFICATION

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

Firm Name Hiddleston & Son, Inc. Firm No. 35

Rt. 3, Box 610-D

Address Mtn Home, ID 83647 Date 5/6/91

Signed by (Firm Official) \_\_\_\_\_

and

(Operator) \_\_\_\_\_

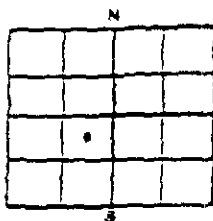
IDAHO DEPARTMENT OF WATER RESOURCES  
WELL DRILLER'S REPORTUse Typewriter  
or  
Ball Point Pen

Well #4 1/5

1. DRILLING PERMIT NO. 63-95-C-0179-000  
Ordn. WFR No. 63-093572. OWNER: MICRON TECHNOLOGY, INC.  
Name  
Address 2865 E. COLUMBIA ROAD  
City BOISE State ID Zip 83706

## 3. LOCATION OF WELL by legal description:

Sketch map location must agree with written location.

Twp. 2 North ☒ or South ☐  
Rge. 3 East ☒ or West ☐  
Sec. 7 NE 1/4 SW 1/4 1/4  
Gov'l Lot County ADAAddress of Well Site FEDERAL WAY  
City BOISE, ID

L. Bk. Sub. Name

## 4. PROPOSED USE:

☐ Domestic ☐ Municipal ☐ Monitor ☐ Irrigation  
☐ Thermal ☐ Injection ☒ Other INDUSTRIAL

## TYPE OF WORK

☒ New Well ☐ Modify or Repair ☐ Replacement ☐ Abandonment

## 5. DRILL METHOD

☒ Mud Rotary ☒ Air Rotary ☐ Cable ☐ Other

## 7. SEALING PROCEDURES

| SEAL/FILTER PACK |      |      | AMOUNT |        | METHOD   |
|------------------|------|------|--------|--------|----------|
| Material         | From | To   | Sacks  | Pounds |          |
| cement grout     | 0    | 172  | 240    |        | overbore |
| cement grout     | 0    | 595  | 484    |        | overbore |
| 8-12 colorado    | 505  | 1080 | 40     | sacks  |          |

Was drive shoe used? ☐ Y ☒ N Shoe Depth(s)Was drive shoe seal tested? Y ☐ N ☒ How?

## CASING/LINER:

| diameter           | From | To  | Gauge | Material | Casing                              | Liner                    | Welded                              | Threaded                 |
|--------------------|------|-----|-------|----------|-------------------------------------|--------------------------|-------------------------------------|--------------------------|
| 20"                | 0    | 172 | .250  | steel    | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 14"                | 0    | 638 | .375  | steel    | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| SEE ATTACHED SHEET |      |     |       |          |                                     |                          |                                     |                          |

Length of Headpipe Length of Tailpipe

## PERFORATIONS/SCREENS

☐ Perforations Method☒ Screens Screen Type stainless steel v-wire

| From               | To | Slot Size | Number | Diameter | Material | Casing | Liner |
|--------------------|----|-----------|--------|----------|----------|--------|-------|
| SEE ATTACHED SHEET |    |           |        |          |          |        |       |
| MICROFILME         |    |           |        |          |          |        |       |

## 8. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

55 ft. below ground Artesian pressure lb.  
nth flow encountered ft. Describe access port or  
trol devices:

## 11. WELL TESTS:

☒ Pump ☐ Bailer ☐ Air ☐ Flowing Artesian

| Yield gal/min | Crawdown | Pumping Level | Time   |
|---------------|----------|---------------|--------|
| 1500          |          | 538           | 24 hrs |
| 1900          |          | 542           | 2 hrs  |

Water Temp. Bottom hole temp.

Water Quality test or comments:

## 12. LITHOLOGIC LOG: (Describe repairs or abandonment)

| Core Dia.   | From | To  | Remarks: Lithology, Water Quality & Temperature | Water |
|-------------|------|-----|-------------------------------------------------|-------|
|             |      |     |                                                 | Y N   |
| 28          | 0    | 5   | top soil                                        |       |
| 28          | 5    | 12  | sand & gravel w/layers                          |       |
|             |      | 12  | clay                                            |       |
| 24          | 12   | 15  | fractured lava                                  |       |
| 24          | 15   | 52  | gray lava                                       |       |
| 24          | 52   | 61  | gray cinders                                    |       |
| 24          | 61   | 69  | gray lava                                       |       |
| 24          | 69   | 72  | gray cinders                                    |       |
| 24          | 72   | 77  | gray lava                                       |       |
| 24          | 77   | 85  | broken gray lava and                            |       |
|             |      | 85  | cinder                                          |       |
| 24          | 85   | 172 | gray lava - hard                                |       |
| 24          | 172  | 174 | broken lava & cinders                           |       |
| 24          | 174  | 180 | large gravel & boulders                         |       |
| 20          | 180  | 204 | sand gravel & large                             |       |
|             |      | 204 | boulder                                         |       |
| 20          | 204  | 225 | cemented sand & gravel                          |       |
| 20          | 225  | 275 | brown sandy clay                                |       |
| 20          | 275  | 282 | brown coarse sand and                           |       |
|             |      | 282 | gravel                                          |       |
| 20          | 282  | 300 | reddish brown coarse                            |       |
|             |      | 300 | sand & gravel w/gray                            |       |
|             |      | 300 | clay                                            |       |
| 20          | 300  | 310 | gray sand w/traces of                           |       |
|             |      | 310 | clay                                            |       |
| 20          | 310  | 320 | brown coarse sand and                           |       |
|             |      | 320 | gravel                                          |       |
| 20          | 320  | 330 | heavy coarse brown                              |       |
|             |      | 330 | gravel                                          |       |
| 20          | 330  | 340 | coarse gravel & boulders                        |       |
| 20          | 340  | 350 | cemented coarse gravel                          |       |
| 20          | 350  | 358 | coarse sand & gravel                            |       |
| PAGE 1 OF 5 |      |     |                                                 |       |

Completed Depth 1090'

Date: Started 4/28/95 Completed 6/30/95 (Measurable)

## 13. DRILLER'S CERTIFICATION

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

Firm Name HIDDLESTON &amp; SON, INC. Firm No. 35

Firm Official Date 8/17/95

Supervisor or Operator Date

(Sign once if Firm Official &amp; Operator)

Well #4 2/5

FILLING PERMIT NO. 63-95-C-0179-000  
IDWR No. 63-09357

2. C O N T A C T I N F O R M A T I O N:  
Name MICRON TECHNOLOGY, INC.  
Address 2805 E. COLUMBIA ROAD  
City BOISE State ID Zip 83706

## 3. LOCATION OF WELL by legal description:

Sketch map location must agree with written location.



Twp. \_\_\_\_\_ North ☐ or South ☐  
 Rge. \_\_\_\_\_ East ☐ or West ☐  
 Sec. \_\_\_\_\_ 1/4 \_\_\_\_\_ 1/4 \_\_\_\_\_ 1/4  
10 acres 40 acres 160 acres  
 Gov't Lot \_\_\_\_\_ County \_\_\_\_\_

Address of Well Site \_\_\_\_\_

City \_\_\_\_\_

(Give at least name of road - Distance to Area or Landmark)

Blk. \_\_\_\_\_ Sub. Name \_\_\_\_\_

#### 4. PROPOSED USE:

☐ Domestic    ☐ Municipal    ☐ Monitor    ☐ Irrigation  
☐ Thermal    ☐ Injection    ☐ Other \_\_\_\_\_

### 5. TYPE OF WORK

New Well ☐ Modify or Repair ☐ Replacement ☐ Abandonment

## LOCAL METHOD

☐ Rotary ☐ Air Rotary ☐ Cable ☐ Other\_\_\_\_\_

## SEALING PROCEDURES

| SEA/FILTER PACK |      |    | AMOUNT          | METHCO |
|-----------------|------|----|-----------------|--------|
| Material        | From | To | Sacks or Pounds |        |
|                 |      |    |                 |        |
|                 |      |    |                 |        |
|                 |      |    |                 |        |

Gas drive shoe used? ☐ Y ☐ N Shoe Depth(s) \_\_\_\_\_

as drive shoe seal tested? Y ☐ N ☐ How? \_\_\_\_\_

**CASING/LINE#:**

| Number | From | To | Gauge | Material | Casing                   | Line                     | Welded                   | Threaded                 |
|--------|------|----|-------|----------|--------------------------|--------------------------|--------------------------|--------------------------|
|        |      |    |       |          | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|        |      |    |       |          | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|        |      |    |       |          | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

Length of Headpipe \_\_\_\_\_ Length of Tailpipe \_\_\_\_\_

### PERFORATIONS/SCREENS

☐ Perforations Method \_\_\_\_\_

☐ Screens      Screen Type \_\_\_\_\_

| Name | TG | Sigal Size | Number | Diameter | Material | Casing | User |
|------|----|------------|--------|----------|----------|--------|------|
|      |    |            |        |          |          | O O    | O O  |
|      |    |            |        |          |          | O O    | O O  |
|      |    |            |        |          |          | O O    | O O  |
|      |    |            |        |          |          | O O    | O O  |
|      |    |            |        |          |          | O O    | O O  |

MICROFILMED

TIC WATER LEVEL OR ARTESIAN PRESSURE:

\_\_\_\_\_ ft. below ground      Artesian pressure \_\_\_\_\_ lb.  
 1) flow encountered \_\_\_\_\_ ft. Describe access port or  
 rel devices:

## 11. WELL TESTS:

☐ Pump    ☐ Bailer    ☐ Air    ☐ Flowing Artesian

| Yield gal/min | Drawdown | Pumping Level | Time |
|---------------|----------|---------------|------|
|               |          |               |      |
|               |          |               |      |
|               |          |               |      |

Water Temp. \_\_\_\_\_ Bottom hole temp. \_\_\_\_\_

Water Quality test or comments: \_\_\_\_\_

## 12. LITHOLOGIC LOG: (Describe repairs or abandonment)

| Bore<br>No. | From  | To    | Remarks: Lithology, Water Quality & Temperature | Y | N |
|-------------|-------|-------|-------------------------------------------------|---|---|
| 20          | 358   | 370   | coarse sand & gravel                            |   |   |
|             |       | 370   | w/clay                                          |   |   |
| 20          | 370   | 410   | reddish brown coarse                            |   |   |
|             |       | 410   | gravel                                          |   |   |
| 20          | 410   | 420   | brown coarse gravel                             |   |   |
|             |       | 420   | w/clay layer                                    |   |   |
| 20          | 420   | 461   | cement coarse gravel                            |   |   |
|             |       | 461   | & cobbles                                       |   |   |
| 20          | 461   | 462.5 | brown clay                                      |   |   |
| 20          | 462.5 |       | brown coarse gravel                             |   |   |
|             |       | 465   | w/cobbles & traces of                           |   |   |
|             |       | 465   | clay                                            |   | X |
| 20          | 465   | 470   | coarse sand & small                             |   |   |
|             |       | 470   | gravel                                          |   | X |
| 20          | 470   | 472   | brown clay                                      |   |   |
| 20          | 472   | 475   | brown clay w/sand layers                        |   |   |
| 20          | 475   | 476   | brown clay                                      |   |   |
| 20          | 476   | 484   | coarse brown sand and                           |   |   |
|             |       | 484   | gravel                                          |   | X |
| 20          | 484   | 533   | coarse gravel & sand                            |   |   |
|             |       | 533   | w/cobbles                                       |   | X |
| 20          | 533   | 539   | coarse gravel & sand                            |   |   |
|             |       | 539   | w/cobbles & rusty clay                          |   | X |
| 20          | 539   | 541   | gravel & sand w/white                           |   | X |
|             |       | 541   | sandy clay                                      |   |   |
| 20          | 541   | 548   | brown clay w/some gravel                        |   |   |
| 20          | 548   | 550   | sand & gravel                                   |   | X |
| 20          | 550   | 626   | coarse brown sand and                           |   |   |
|             |       | 626   | gravel w/layers of clay                         |   |   |
| 20          | 626   | 664   | brown gravel w/clay                             |   |   |
|             |       | 664   | layers                                          |   | X |
|             |       |       |                                                 |   |   |
|             |       |       | PAGE 2 OF 5                                     |   |   |

PAGE 2 OF 5

Completed Depth 1090' (Measurable)

Date: Started 4/28/95 Completed 6/30/95

### 13. DRILLER'S CERTIFICATION

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

Firm Name HIDDLESTON & SON, INC. Firm No. 35

Firm Official M. J. [Signature] Date 8/17/95

Supervisor or Operator \_\_\_\_\_ Date \_\_\_\_\_

(Sign once if Firm Official & Operator)

# IDAHO DEPARTMENT OF WATER RESOURCES WELL DRILLER'S REPORT

Use Typewriter  
or  
Ball Point Pen

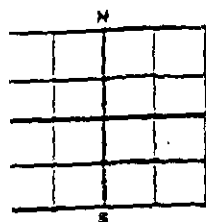
Well #5 3/5

1. BILLING PERMIT NO. 63-95-C-0179-000  
OWNER No. 63-09357

2. OWNER: MICRON TECHNOLOGY, INC.  
Name MICRON TECHNOLOGY, INC.  
Address 2805 E. COLUMBIA ROAD  
City BOISE State ID Zip 83706

## 3. LOCATION OF WELL by legal description:

Sketch map location must agree with written location.



Twp. \_\_\_\_\_ North ☐ or South ☐  
Rge. \_\_\_\_\_ East ☐ or West ☐  
Sec. \_\_\_\_\_ 1/4 \_\_\_\_\_ 1/4 \_\_\_\_\_ 1/4  
Gov't Lot \_\_\_\_\_ County \_\_\_\_\_

Address of Well Site \_\_\_\_\_

City \_\_\_\_\_  
(Give at least name of road - Distance to Road or Landmark)

Blk. \_\_\_\_\_ Sub. Name \_\_\_\_\_

## PROPOSED USE:

☐ Domestic ☐ Municipal ☐ Monitor ☐ Irrigation  
☐ Thermal ☐ Injection ☐ Other \_\_\_\_\_

## TYPE OF WORK

☐ New Well ☐ Modify or Repair ☐ Replacement ☐ Abandonment

## DRILL METHOD

☒ Mud Rotary ☐ Air Rotary ☐ Cable ☐ Other \_\_\_\_\_

## SEALING PROCEDURES

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

Is drive shoe used? ☐ Y ☐ N Shoe Depth(s) \_\_\_\_\_

Is drive shoe seal tested? Y ☐ N ☐ How? \_\_\_\_\_

## CASING/LINER:

| Material | From | To | Gauge | Material | Casing                   | Liner                    | Welded                   | Threaded                 |
|----------|------|----|-------|----------|--------------------------|--------------------------|--------------------------|--------------------------|
|          |      |    |       |          | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|          |      |    |       |          | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|          |      |    |       |          | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

Depth of Headpipe \_\_\_\_\_ Length of Tailpipe \_\_\_\_\_

## PERFORATIONS/SCREENS

Perforations Method \_\_\_\_\_

Screens Screen Type \_\_\_\_\_

| From | To | Slot Size | Number | Diameter | Material | Casing                   | Liner                    |
|------|----|-----------|--------|----------|----------|--------------------------|--------------------------|
|      |    |           |        |          |          | <input type="checkbox"/> | <input type="checkbox"/> |
|      |    |           |        |          |          | <input type="checkbox"/> | <input type="checkbox"/> |
|      |    |           |        |          |          | <input type="checkbox"/> | <input type="checkbox"/> |

## 11. WELL TESTS:

☐ Pump ☐ Bailor ☐ Air ☐ Flowing Artesian

| Yield gal. min. | Drawdown | Pumping Level | Time |
|-----------------|----------|---------------|------|
|                 |          |               |      |
|                 |          |               |      |
|                 |          |               |      |

Water Temp. \_\_\_\_\_ Bottom hole temp. \_\_\_\_\_

Water Quality test or comments: \_\_\_\_\_

## 12. LITHOLOGIC LOG: (Describe repairs or abandonment)

| Bore Dia. | From | To  | Remarks: Lithology, Water Quality & Temperature | Y | N |
|-----------|------|-----|-------------------------------------------------|---|---|
| 20        | 654  | 680 | coarse brown gravel                             |   |   |
|           |      | 680 | w/clay                                          | X |   |
| 20        | 680  | 695 | coarse brown gravel                             | X |   |
| 20        | 695  | 710 | brown clay w/trace of                           |   |   |
|           |      | 710 | gravel                                          |   |   |
| 20        | 710  | 720 | coarse brown gravel-                            |   |   |
|           |      | 720 | dirty                                           | X |   |
| 20        | 720  | 756 | coarse brown gravel                             | X |   |
| 20        | 756  | 761 | brown clay w/sand and                           |   |   |
|           |      | 761 | gravel                                          |   |   |
| 20        | 761  | 768 | brown sand & small                              | X |   |
|           |      | 768 | gravel w/streaks of clay                        | X |   |
| 20        | 768  | 777 | brown sand & gravel                             | X |   |
| 20        | 777  | 784 | brown sand & smaller                            |   |   |
|           |      | 784 | gravel w/traces of clay                         | X |   |
| 20        | 784  | 795 | tan-brown sandy clay                            |   |   |
| 20        | 795  | 811 | brown sand & gravel                             | Y |   |
|           |      | 811 | w/thin layers of clay                           |   |   |
| 20        | 811  | 820 | brown sandy clay                                |   |   |
| 20        | 820  | 823 | coarse gravel                                   | X |   |
| 20        | 823  | 828 | brown sandy clay                                |   |   |
| 20        | 828  | 842 | coarse gravel & sand                            | X |   |
| 20        | 842  | 856 | sandy brown clay                                |   |   |
| 20        | 856  | 860 | coarse brown sand                               | X |   |
| 20        | 860  | 891 | brown sand & gravel                             |   |   |
|           |      | 891 | w/traces of clay -                              |   |   |
|           |      | 891 | boulders @ 877-888                              | X |   |
| 20        | 891  | 892 | sandy brown clay                                |   |   |
| 20        | 892  | 896 | sand & gravel w/layers                          |   |   |
|           |      | 896 | of clay                                         | X |   |
| 20        | 896  | 899 | sand & gravel w/more                            |   |   |
|           |      | 899 | clay                                            | X |   |

PAGE 3 OF 5

Completed Depth 1090' (Measurable)

Date: Started 4/28/95 Completed 6/30/95

## 13. DRILLER'S CERTIFICATION

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

Firm Name HIDDLESTON & SON, INC. Firm No. 35

Firm Official Mark B. Hiddleston Date 8/17/95

and  
Supervisor or Operator \_\_\_\_\_ Date \_\_\_\_\_

(Sign once if Firm Official & Operator)

## STATIC WATER LEVEL OR ARTESIAN PRESSURE:

\_\_\_\_\_ ft. below ground Artesian pressure \_\_\_\_\_ lb.

Flow encountered \_\_\_\_\_ ft. Describe access port or

devices: MICROFILMED

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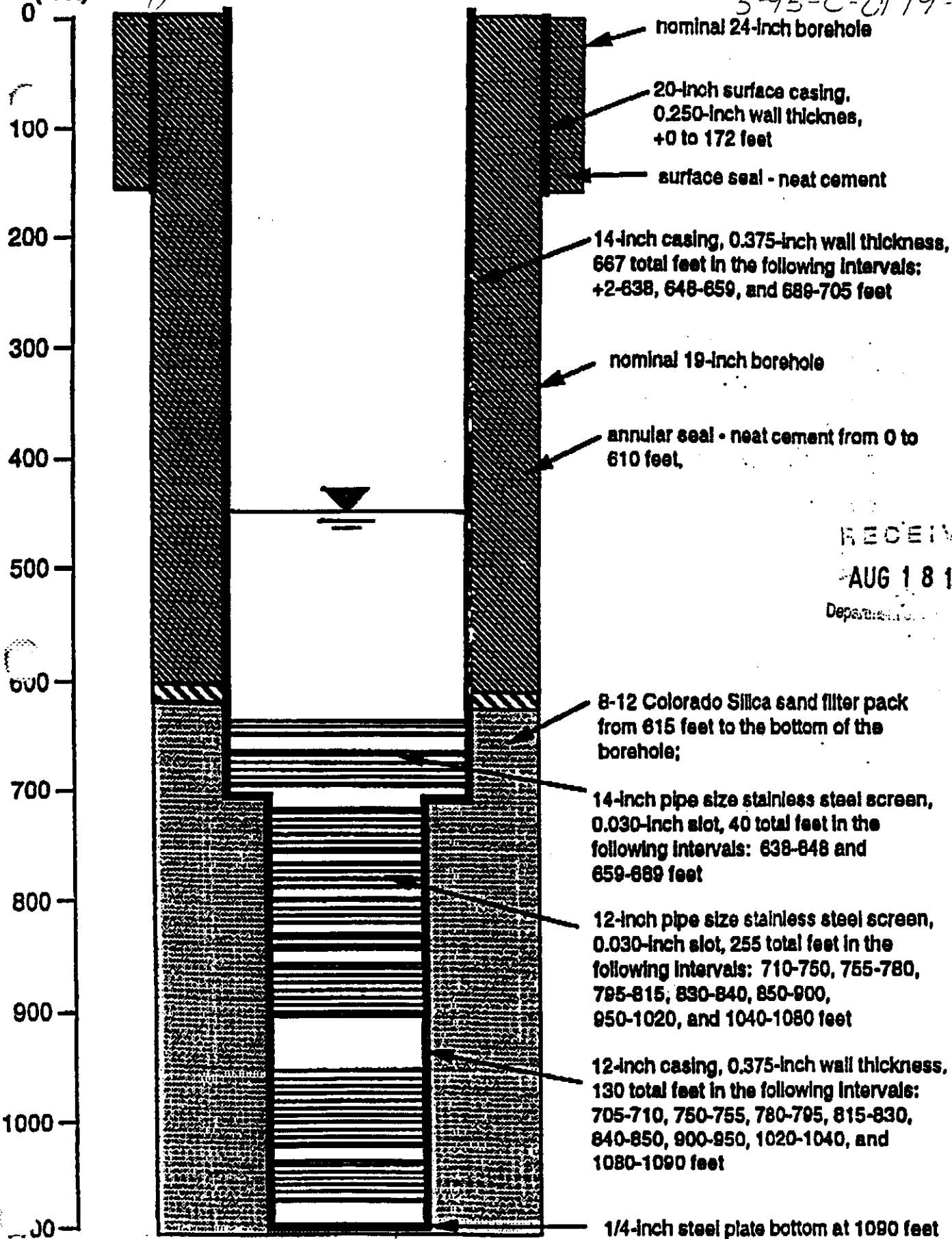


Depth  
(feet)

PAGE 5 OF 5

3-95-C-0179-200

5/5



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Department of

## MICRON WELL NO. 4 - FINAL WELL DESIGN

SEP 23 2002

IDAHO DEPARTMENT OF WATER RESOURCES  
WELL DRILLER'S REPORT

Use Typewriter or Ballpoint Pen

Office Use Only

Inspected by

APR 17 1998

Rge Sec

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1. DRILLING PERMIT NO. 63 - 97-C-0652 -000

Other IDWR No. D0000182

## OWNER:

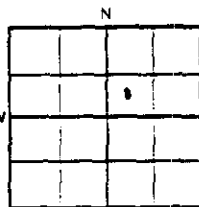
Name Micon Technology

Address 8000 South Federal Way

City Boise State Id Zip 83907-006

## 3. LOCATION OF WELL by legal description:

Sketch map location must agree with written location.

Twp. 2 North ☒ or South ☐  
Rge. 3 East ☒ or West ☐  
Sec. 7 SW 1/4 NE 1/4 1/4  
Gov't Lot County Ada  
Lat: : : Long: : :  
Address of Well Site 8000 S federal  
way well #5 City Boise  
(Give at least name of road + Distance to Road or Landmark)

Lt. Blk. Sub. Name

## 4. USE:

☐ Domestic ☐ Municipal ☐ Monitor ☐ Irrigation  
☐ Thermal ☐ Injection ☒ Other Industrial

## 5. TYPE OF WORK check all that apply (Replacement etc.)

☒ New Well ☐ Modify ☐ Abandonment ☐ Other

## DRILL METHOD

☒ Air Rotary ☐ Cable ☒ Mud Rotary ☐ Other

## 7. SEALING PROCEDURES

| SEAL/FILTER PACK |      |     | AMOUNT          |  | METHOD         |
|------------------|------|-----|-----------------|--|----------------|
| Material         | From | To  | Sacks or Pounds |  |                |
| Cement Grout     | 0    | 610 | 576             |  | Cementing shoe |
|                  |      |     |                 |  |                |
|                  |      |     |                 |  |                |

Was drive shoe used? ☐ Y ☒ N Shoe Depth(s)Was drive shoe seal tested? ☐ Y ☒ N How?

## 8. CASING/LINER:

| Diameter | From | To  | Gauge | Material | Casing                              | Liner                    | Welded                              | Threaded                 |
|----------|------|-----|-------|----------|-------------------------------------|--------------------------|-------------------------------------|--------------------------|
| 20"      | 3    | 610 | 375   | Steel    | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
|          |      |     |       |          | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> |
|          |      |     |       |          | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> |

Length of Headpipe 35' Length of Tailpipe 14'

## 9. PERFORATIONS/SCREENS

☐ Perforations Method☒ Screens Screen Type Johnson

| From | To | Slot Size | Number | Diameter | Material | Casing                              | Liner                               |
|------|----|-----------|--------|----------|----------|-------------------------------------|-------------------------------------|
|      |    |           |        |          |          | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
|      |    |           |        |          |          | <input type="checkbox"/>            | <input type="checkbox"/>            |
|      |    |           |        |          |          | <input type="checkbox"/>            | <input type="checkbox"/>            |

## 10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

485 ft. below ground Artesian pressure lb.

Depth flow encountered MICAC ft. Describe access port or

control devices:

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## 11. WELL TEST

☒ Pump ☐ Bailer ☐ Air ☐ Flowing Artesian

| Yield gal./min. | Drawdown | Pumping Level | Time  |
|-----------------|----------|---------------|-------|
| 1500            |          | 525           | 1hr   |
| 2500            |          | 553           | 3hrs  |
| 1800            |          | 543           | 24hrs |

Water Temp. Bottom hole temp.

Water Quality test or comments:

Depth first Water Encountered

## 12. LITHOLOGIC LOG: (Describe repairs or abandonment)

| Bore Dia. | From | To   | Remarks: Lithology, Water Quality & Temperature | Water | Y | N |
|-----------|------|------|-------------------------------------------------|-------|---|---|
| 24"       | 0    | 5'   | Top Soil                                        |       |   |   |
|           | 5'   | 21'  | Grey lava                                       |       |   |   |
|           | 21'  | 24'  | Cinders                                         |       |   |   |
|           | 24'  | 52'  | Grey lava                                       |       |   |   |
|           | 52'  | 64'  | Cinders                                         |       |   |   |
|           | 64'  | 78'  | Grey lava Hard                                  |       |   |   |
|           | 78'  | 82'  | Cinders                                         |       |   |   |
|           | 82'  | 101' | grey lava Hard                                  |       |   |   |
|           | 101' | 106' | Grey lava Soft                                  |       |   |   |
|           | 106' | 118' | Grey lava Hard                                  |       |   |   |
|           | 118' | 125' | Cinders                                         |       |   |   |
|           | 125' | 152' | Grey lava Hard                                  |       |   |   |
|           | 152' | 168' | Cemented sand, gravel                           |       |   |   |
|           | 168' | 174' | Sand & gravel coarse                            |       |   |   |
|           | 174' | 194' | Sand & gravel some boulders                     |       |   |   |
|           | 194' | 197' | Sand coarse                                     |       |   |   |
|           | 197' | 210' | Coarse sand & gravel                            |       |   |   |
|           | 210' | 220' | Brown coarse sand, gravel                       |       |   |   |
|           | 220' | 240' | Brown coarse sand, gravel                       |       |   |   |
|           | 240' | 260' | Brown coarse gravel                             |       |   |   |
|           | 260' | 270' | Brown coarse gravel                             |       |   |   |
|           | 270' |      | Sand coarse, gravel some sandy                  |       |   |   |
|           |      | 339' | Brown clay some cobbles                         |       |   |   |
|           | 339' | 348' | Brown sand dry sticky                           |       |   |   |
|           | 350' | 357' | Sand coarse gravel                              |       |   |   |
|           | 397' | 414' | Brown sandy clay                                |       |   |   |
|           | 414' |      | Sand & gravel some cobbles                      |       |   |   |
|           |      | 460' | Some clay                                       |       |   |   |
|           | 460' |      | Sand & gravel cobbles                           |       |   |   |
|           |      | 575' | W/some tan clay                                 |       |   |   |
|           | 575' | 580' | Sand & small gravel (brown)                     |       |   |   |
|           | 580' | 590' | Sand & gravel clay                              |       |   |   |
|           | 590' | 600' | Brown clay & gravel                             |       |   |   |

Completed Depth 1217 (Measurable)

Date: Started Completed

## 13. DRILLER'S CERTIFICATION

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

Firm Name Hiddleston &amp; Son Inc. Firm No. 35

Firm Official Date 4/16/98

and

Supervisor or Operator Date

(Sign once if Firm Official &amp; Operator)

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## WELL DRILLER'S REPORT

Use Typewriter or Ballpoint Pen

Office Use Only

RECEIVED

Inspected by

Twp. Rge. Sec.

1/4 1/4 1/4

Lat. : : Long. : :

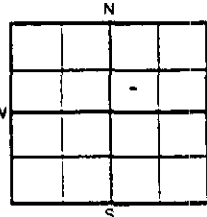
1. DRILLING PERMIT NO. 63 - 97 - C - 0652 - 000Other IDWR No. D0000182

## OWNER:

Name Micron TechnologyAddress 8000 South Federal WayCity Boise State ID Zip 83907-006

## 3. LOCATION OF WELL by legal description:

Sketch map location must agree with written location.

Twp. 2 North ☒ or South ☐  
Rge. 3 East ☒ or West ☐  
Sec. 7 SW 1/4 NE 1/4 1/4  
Gov't Lot \_\_\_\_\_ County Ada 10 acres 40 acres 160 acres  
Lat. : : Long. : :Address of Well Site 8000 S FederalWay Well #5 City Boise

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

Lt. \_\_\_\_\_ Blk. \_\_\_\_\_ Sub. Name \_\_\_\_\_

## 4. USE:

☐ Domestic ☐ Municipal ☐ Monitor ☐ Irrigation  
☐ Thermal ☐ Injection ☒ Other Industrial

## 5. TYPE OF WORK check all that apply (Replacement etc.)

☐ New Well ☐ Modify ☐ Abandonment ☐ Other \_\_\_\_\_

## DRILL METHOD

☐ Air Rotary ☐ Cable ☐ Mud Rotary ☐ Other \_\_\_\_\_

## 7. SEALING PROCEDURES

| SEAL/FILTER PACK |      |    | AMOUNT<br>Sacks or<br>Pounds | METHOD |
|------------------|------|----|------------------------------|--------|
| Material         | From | To |                              |        |
|                  |      |    |                              |        |
|                  |      |    |                              |        |
|                  |      |    |                              |        |

Was drive shoe used? ☐ Y ☐ N Shoe Depth(s) \_\_\_\_\_Was drive shoe seal tested? ☐ Y ☐ N How? \_\_\_\_\_

## 8. CASING/LINER:

| Diameter | From | To | Gauge | Material | Casing | Liner | Welded | Threaded |
|----------|------|----|-------|----------|--------|-------|--------|----------|
|          |      |    |       |          |        |       |        |          |
|          |      |    |       |          |        |       |        |          |
|          |      |    |       |          |        |       |        |          |

Length of Headpipe \_\_\_\_\_ Length of Tailpipe \_\_\_\_\_

## 9. PERFORATIONS/SCREENS

☐ Perforations Method \_\_\_\_\_  
☐ Screens Screen Type \_\_\_\_\_

| From | To | Slot Size | Number | Diameter | Material | Casing | Liner |
|------|----|-----------|--------|----------|----------|--------|-------|
|      |    |           |        |          |          |        |       |
|      |    |           |        |          |          |        |       |
|      |    |           |        |          |          |        |       |

## 10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

\_\_\_\_\_ ft. below ground Artesian pressure \_\_\_\_\_ lb.

Depth flow encountered \_\_\_\_\_ ft. Describe access port or control devices: MICRO

## 11. WELL TESTS:

☒ Pump ☐ Flowing Artesian

| Yield gal./min. | Drawdown | Pumping Level | Time |
|-----------------|----------|---------------|------|
|                 |          |               |      |
|                 |          |               |      |
|                 |          |               |      |

Water Temp. \_\_\_\_\_ Bottom hole temp. \_\_\_\_\_

Water Quality test or comments: \_\_\_\_\_

Depth first Water Encountered \_\_\_\_\_

## 12. LITHOLOGIC LOG: (Describe repairs or abandonment)

| Bore Dia. | From | To     | Remarks: Lithology, Water Quality & Temperature | Y | N |
|-----------|------|--------|-------------------------------------------------|---|---|
|           |      |        |                                                 |   |   |
|           |      |        |                                                 |   |   |
| 24        | 615  | 620    | Tan gravel & clay                               |   |   |
| 24        | 620  | 630    | Tan gravel & clay                               |   |   |
| 20        | 630  | 700    | Brown coarse gravel, sandx                      |   |   |
|           | 700  | 708    | Trace of clay                                   |   |   |
|           | 708  | 711    | Tan sandy clay                                  |   |   |
|           | 711  | 718    | Tan gravel coarse sand                          | x |   |
|           | 718  | 724    | Sandy tan clay w/layers gravel                  |   |   |
|           | 724  | 728    | Sandy, gravel w/some clay                       | x |   |
|           | 728  | 735    | Sand coarse                                     | x |   |
|           | 735  | 747    | Sand & gravel                                   | x |   |
|           | 747  | 758    | Sand gravel & cobbles                           | x |   |
|           | 758  | 769    | Tan clay                                        |   |   |
|           | 769  | 790    | Sand & gravel w/some clay                       | x |   |
|           | 790  | 794    | Sand coarse                                     | x |   |
|           | 794  | 804    | Sandy clay w/some gravel                        |   |   |
|           | 804  | 836    | Coarse gravel & sand                            | x |   |
|           | 836  | 845    | Sandy clay & gravel                             | x |   |
|           | 845  | 860    | Gravel & sand w/some clay                       | x |   |
|           | 860  | 910    | Coarse gravel & sand                            | x |   |
|           | 910  | 950    | Coarse gravel & sand                            | x |   |
|           |      |        | Trace of clay                                   |   |   |
|           | 950  | 955    | Coarse gravel & sand                            | x |   |
|           |      |        | Trace of clay                                   |   |   |
|           | 955  | 970    | Clay & sand & gravel                            | x |   |
|           | 970  | 1019   | Coarse sand, gravel trace clay                  |   |   |
|           | 1019 | 1031   | Gray clay, silty sand                           | x |   |
|           | 1032 | 1051   | Gravel clay & silty sandx                       |   |   |
|           | 1051 | 1066   | Coarse sand & gravel                            | x |   |
|           | 1066 | 1070   | Clay tan                                        |   |   |
|           | 1070 | 1078   | Gravel                                          | x |   |
|           | 1078 | 1085   | Brown clay sandy                                |   |   |
|           | 1085 | 1086.5 | Sand & gravel too                               | x |   |

Completed Depth \_\_\_\_\_ (Measurable)

Date: Started \_\_\_\_\_ Completed \_\_\_\_\_

## 13. DRILLER'S CERTIFICATION

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

Firm Name Hiddleston & Son Inc. Firm No. 35Firm Official [Signature] Date 4/6/98

and

Supervisor or Operator \_\_\_\_\_ Date \_\_\_\_\_

(Sign once if Firm Official &amp; Operator)

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well #5  
4/5

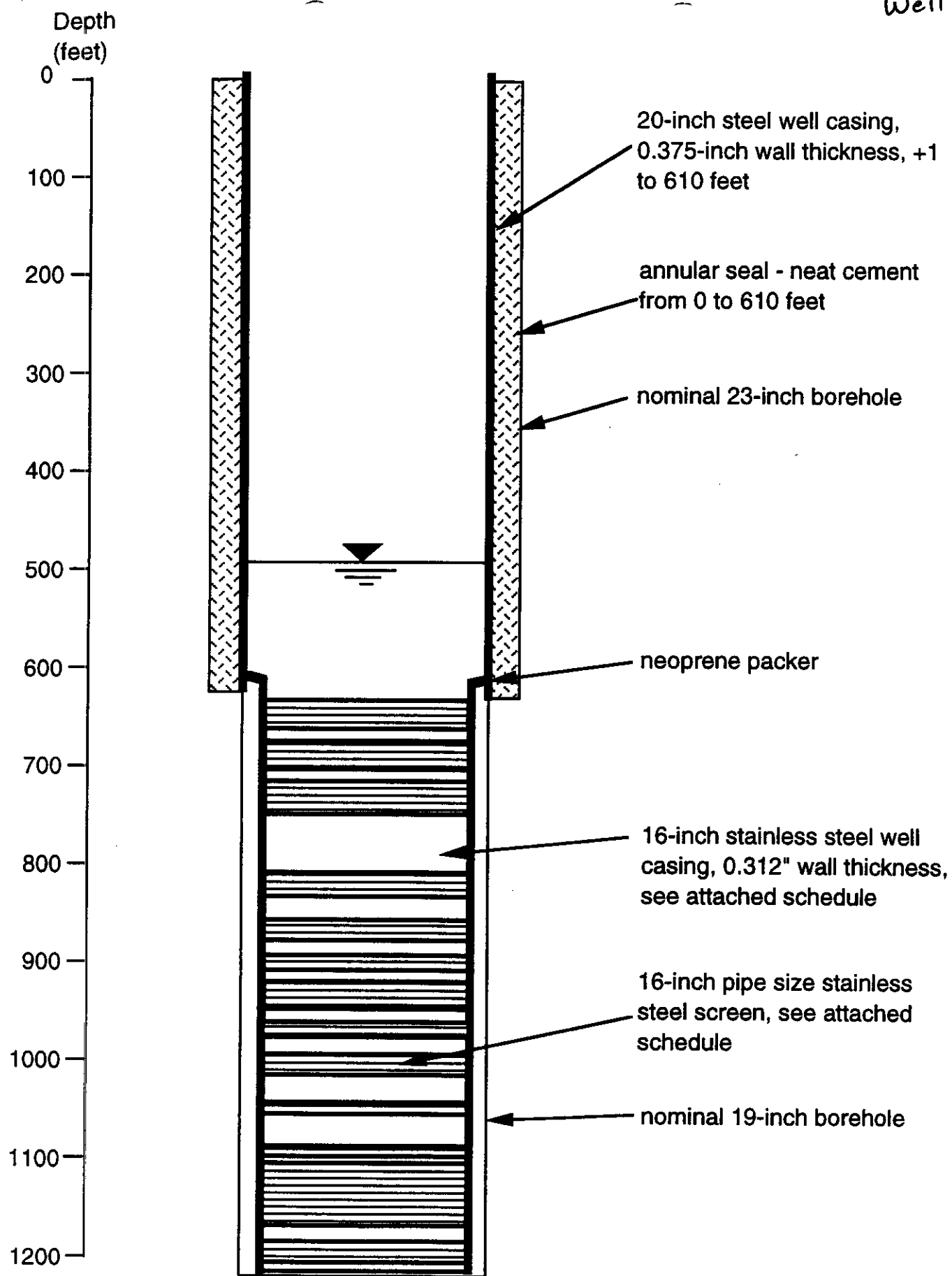
16-inch casing and screen schedule, Micron Well No. 5

| screen    |        |           | blank casing |        |
|-----------|--------|-----------|--------------|--------|
| interval  | length | slot size | interval     | length |
| 630-660   | 30     | 70        | 600-630      | 30     |
| 675-705   | 30     | 70        | 660-675      | 15     |
| 715-750   | 35     | 70        | 705-715      | 10     |
| 809-834   | 25     | 70        | 750-809      | 59     |
| 859-879   | 20     | 70        | 834-859      | 25     |
| 895-905   | 10     | 70        | 879-895      | 16     |
| 917-947   | 30     | 70        | 905-917      | 12     |
| 962-977   | 15     | 70        | 947-962      | 15     |
| 995-1015  | 20     | 70        | 977-995      | 18     |
| 1046-1056 | 10     | 70        | 1015-1046    | 31     |
| 1091-1101 | 10     | 70        | 1056-1091    | 35     |
| 1110-1170 | 60     | 70        | 1101-1110    | 9      |
| 1183-1203 | 20     | 70        | 1170-1183    | 13     |
|           |        |           | 1203-1210    | 7      |
| Total     | 315    |           |              | 295    |

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Well #5  
5/5



MICRON

## MICRON WELL NO. 5 - FINAL WELL DESIGN

SEP 23 2002

**INJECTION PERMIT 63-W-156**

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SEP 23 2002

**State of Idaho****DEPARTMENT OF WATER RESOURCES****1301 North Orchard Street, P.O. Box 83720, Boise, Idaho 83720-0098****Phone: (208) 327-7900 FAX: (208) 327-7866****PHILIP E. BATT  
GOVERNOR****KARL J. DREHER  
DIRECTOR**

April 16, 1998

Mr. John Chapman, Water Services Manager  
Micron Technology, Inc.  
PO Box 6  
Boise, Idaho 83707-0006

RE: Approved Permit to Maintain an Injection Well No. 63-W-156

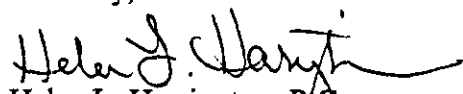
Dear Mr. Chapman:

Enclosed is a copy of the approved permit referenced above. The water quality standards under which this permit is issued are found in IDWR Rules for Construction and Use of Injection Wells, IDAPA 37.03.03; these standards are based on the maximum contaminant levels (MCLs). The Ground Water Quality Rule and ground water quality standards have not been adopted by the Waste Disposal and Injection Well Program at this time. Therefore, Attachment II Conditions 1 and 2 remain as proposed in the draft permit. The Attachment II header has been changed to 63-W-156.

Attachment I contains standard conditions for the operation of the well. Attachment II contains specific conditions regarding the well. Please note that if the use of the well is desired after the expiration date shown on Attachment II, a new application for permit to maintain the well will be required.

If you have any questions, please call me at 327-7950.

Sincerely,

  
Helen L. Harrington, P.G.  
Groundwater Protection Section

Encl: Permit

cc: Western Region

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Department of Water Resources



**APPROVED**

EXPIRATION DATE: 3-31-2008

STATE OF IDAHO  
DEPARTMENT OF WATER RESOURCES  
APPLICATION FOR PERMIT TO  
CONSTRUCT X  
MAINTAIN X  
AN INJECTION WELL

Under the Provisions of Title 42, Chapter 39 of the Idaho

I. GENERAL INFORMATION

A. Name and Address of Legal Contact (X) Owner (X) Operator

Name Micron Technology, Inc.

Address 8000 south Federal Way, P.O. Box 6

City Boise State ID Zip Code 83707-0006

Phone No. 208-368-4358

Facility Name and Location (if different than above)

Name \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip Code \_\_\_\_\_

B. Location of Well (attach map see item II L)

Township 2N Range 3E Section 7 1/4 SW 1/4 NE 1/4 Lot \_\_\_\_\_

Subdivision Name \_\_\_\_\_ Block \_\_\_\_\_ Lot \_\_\_\_\_

County Ada

C. Is facility located on Indian Lands? Yes ( ) No (X)

D. Injection Well Classification

1. Depth of well: \_\_\_\_\_ Less than or equal to 18 feet below land surface

1200 ft Greater than 18 feet below land surface

2. Classification: 5R21 (see list below)

|      |                                      |      |                                |
|------|--------------------------------------|------|--------------------------------|
| 5A5  | Electric Power Generation            | 5W10 | Cesspools                      |
| 5A6  | Geothermal Heat                      | 5W11 | Septic Systems (General)       |
| 5A7  | Closed-Loop Heat Pump Return         | 5W12 | Water Treatment Plant Effluent |
| 5A8  | Aquaculture Return Flow              | 5W20 | Industrial Process Water       |
| 5A19 | Cooling Water Return                 | 5W31 | Septic Systems (Well Disposal) |
| 5B22 | Saline Water Intrusion Barrier       | 5W32 | Septic Systems (Drainfield)    |
| 5D2  | Storm Runoff                         | 5X13 | Mine Tailings Backfill         |
| 5D3  | Improved Sinkholes                   | 5X14 | Solution Mining                |
| 5D4  | Industrial Storm Runoff              | 5X15 | In-Situ Fossil Fuel Recovery   |
| 5F1  | Agricultural Runoff Waste            | 5X16 | Spent Brine Return Flow        |
| 5G30 | Special Drainage Water               | 5X25 | Experimental Technology        |
| 5N24 | Low-level Radioactive Waste Disposal | 5X26 | Aquifer Remediation            |
| 5R21 | Aquifer Recharge                     | 5X27 | Other Wells                    |
| 5S23 | Subsidence Control                   | 5X28 | Service Station Waste          |
| 5W9  | Untreated Sewage                     | 5X29 | Abandoned Drinking Water Wells |

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II.

## TECHNICAL DATA

- A. Description of injection well, if bored, drilled or driven  
If well has not been constructed:

Well Bore: Diameter 20 inches Depth 1200 feet

- B. Description of injection well, if bored, drilled or driven  
If well is constructed:

NA

Well Bore: Diameter \_\_\_\_\_ inches Depth \_\_\_\_\_ feet

Surface Casing: diameter \_\_\_\_\_ inches Depth \_\_\_\_\_ feet

Perforation depth: from \_\_\_\_\_ feet to \_\_\_\_\_ feet

Surface seal: ( ) No ( ) Yes, Type \_\_\_\_\_ Depth \_\_\_\_\_ feet

Secondary casing, if applicable:

Diameter \_\_\_\_\_ inches

Initial depth \_\_\_\_\_ feet Terminal depth \_\_\_\_\_

Seal type \_\_\_\_\_ Packer depth \_\_\_\_\_

Well Log available ( ) No ( ) Yes (if yes, attach a copy)

Driller's Name/Address \_\_\_\_\_

Month, Day, Year, Drilled \_\_\_\_\_

- C. Description of injection well, if dug NA

Surface dimensions \_\_\_\_\_ feet, by \_\_\_\_\_ feet, or Diameter \_\_\_\_\_ inches

Depth \_\_\_\_\_ feet Filler material, if any \_\_\_\_\_

Date constructed: \_\_\_\_\_

Name/address of contractor \_\_\_\_\_

- D. Distance to nearest domestic well 0.4 miles (Micron Well No. 4) miles

Direction to nearest domestic well southwest (see attached maps)

Depth to ground water 475 feet

- E. Frequency of Injection X Continuous \_\_\_\_\_ Seasonal \_\_\_\_\_ Intermittent \_\_\_\_\_  
Maximum Average Weekly Rate of Injection 3,000 to 6,000 gpm *modified per letter dated 2/23/98 from John Chapman, Micron*  
Maximum Capacity 3,000 to 6,000 gpm *RA ID# 21*

- F. Are hazardous wastes, as defined in 40 CFR, Part 261, present in the injected fluids? (excluding 5F1) Yes X No  
If yes, attach RCRA numbers for constituents identified as hazardous (see 40 CFR, Part 261 of the Federal Register):

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- G. If well is class 5F1, (Agricultural Runoff Waste) or class 5F1 (Surface runoff):  
Method of irrigation for (for class 5F1): gravity sprinkler  
Use of lands in drainage area:

NA

Pesticides/fertilizers/chemicals used (type and quantity)

Approximate Drainage area: \_\_\_\_\_ acres

Settling pond at injection site? ( ) No ( ) Yes, size \_\_\_\_\_

Screening structure at well? ( ) No ( ) Yes, Size and mesh \_\_\_\_\_

- H. If well is class 5W20, (Industrial Process Waste) or other industrial waste:

Type of Waste NA

Describe Treatment prior to injection:

(Attach statement describing the complete physical, chemical and microbiological quality of the fluids.)

- I. Description of the type of business and the principal products

semiconductor manufacturing

- J. Alternate methods of disposal that have been considered NA

- K. Why were they rejected? NA

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L. Attach a topographic map or aerial photo showing area within a one mile radius, to include:

- a. Location of injection well described herein and associated facilities (drain ditches, settling pond, etc.),
- b. Other injection wells and associated facilities,
- c. Approximate drainage area (if applicable),
- d. Intake and discharge or injection structures (if applicable),
- e. Hazardous waste facilities,
- f. All drinking water wells,
- g. All other wells, springs and surface waters.

III. A. Any request to treat any document or portion thereof as a trade secret as defined under Chapter 8, Title 48, Idaho Code shall be made at the time said document is submitted to the Department. The person making the request shall stamp or otherwise mark each page or item on a page, to which the request applies, with the word "confidential."

Be it known that the undersigned (owner/operator) hereby makes Application for Permit to Construct or Maintain a Waste Disposal and Injection Well. The above information is true and correct to the best of my knowledge.

11-25-97

Date

[Signature]  
Signature and Title WATER SERVICES MGR

B. Action of the Department of Water Resources

I have examined Application No. 63-W-156 and said application is hereby approved subject to the attached conditions.

Witness my hand this 13th day of April 1998

[Signature]  
Official, Idaho Department of Water Resources  
Administrator, Water Management Division  
Title

For Department Use Only

Received by Helen Harrington Date 11/25/97 Reviewed by [Signature]  
Fees \$100.00 Receipted by Rita Fleck Receipt No. 6040736

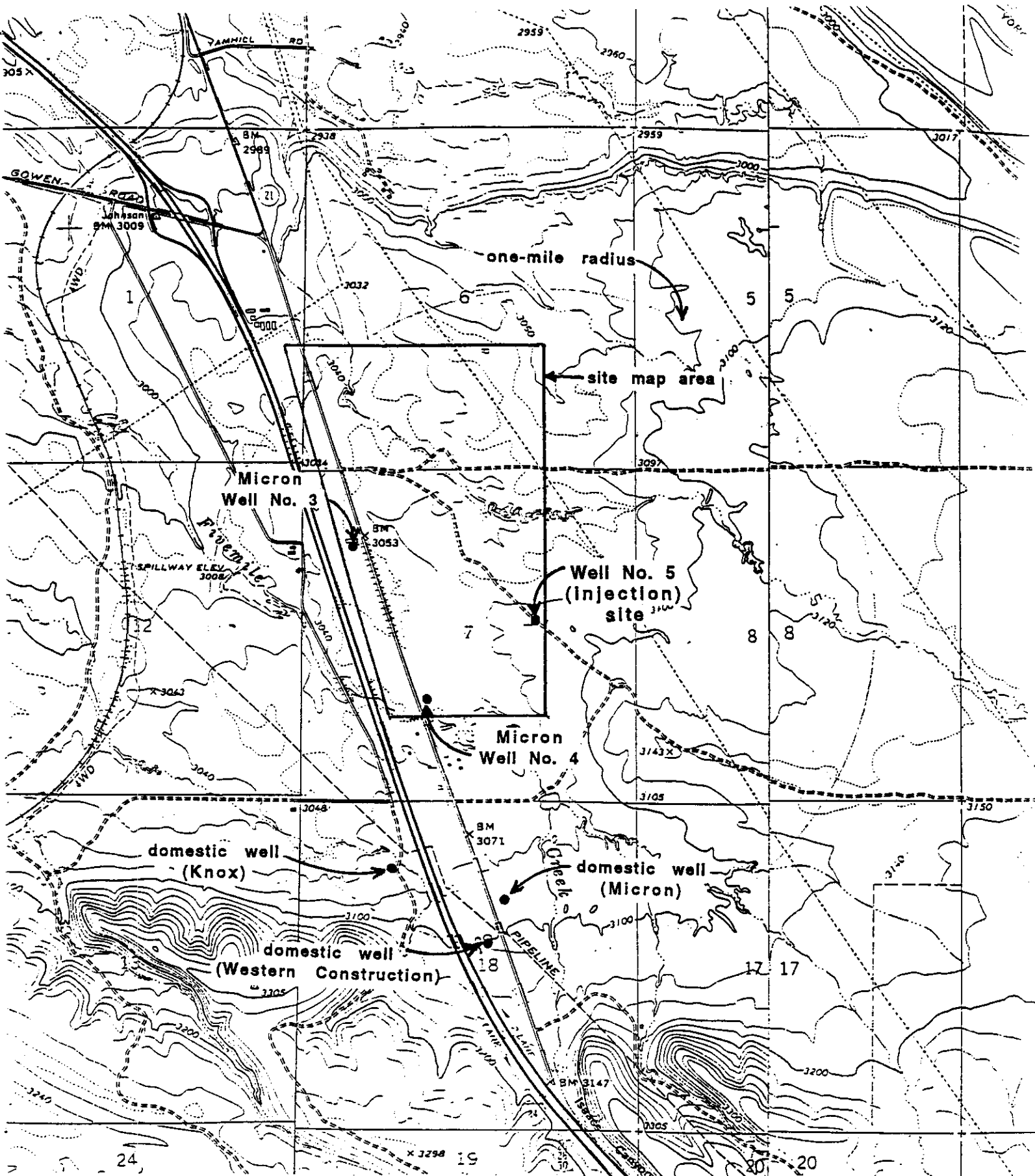
Forwarded to S. O. \_\_\_\_\_

Notice of completion received \_\_\_\_\_

Field Inspection \_\_\_\_\_

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SEP 23 2002



# **TOPOGRAPHIC VICINITY MAP SHOWING ACTIVE DRINKING WATER WELLS WITHIN A ONE-MILE RADIUS OF MICRON WELL NO. 5**

Note: Micron Wells 3 and 4 are permitted for drinking water use. However, Micron domestic water is currently supplied through the United Water Idaho municipal system. Micron Wells 3 and 4 currently supply industrial water use only.



STATE OF IDAHO  
DEPARTMENT OF WATER RESOURCES

ATTACHMENT I  
STANDARD CONDITIONS AND REQUIREMENTS PERTAINING TO  
CONSTRUCTING, MODIFYING, OPERATING AND/OR ABANDONING  
AN INJECTION WELL

Standard Conditions and Requirements pertaining to all injection wells

A. Construction Requirements

1. The injection well shall be constructed by an Idaho licensed driller and shall conform with the current Minimum Well Construction Standards of the State and the Conditions of this Permit, except that a licensed driller is not required for the construction of a mine shaft, a hole without mechanically-powered equipment or a shallow injection well.
2. The injection well shall be constructed to prevent the entrance of any fluids other than that specified in the permit.
3. The injection well shall be constructed to prevent waste of artesian fluids and pressure or movement of fluids from one aquifer to another.
4. When construction or modification of an injection well has been completed, the owner shall inform the Director of completion on a form provided by the Department.
5. A sampling port shall be provided at the well head if the injection well system is enclosed. If the well is located within a pond or other catchment basin, an elevated walkway to the wellhead for sampling access must be constructed and maintained in safe operating condition by the operator of the injection well.

B. Operational Conditions

1. The injection well will not be used until the construction, operation and maintenance requirements of the permit are met and provisions are made for any required inspection, monitoring and record keeping.
2. Injection of any contaminant as defined in Rule 37.03.010.09 of the Rules into a present or future drinking or other ground water source that may cause a health hazard or adversely affect a designated and protected use is prohibited.
3. The injection well owner or operator shall develop approved procedures to detect constructional or operational failure of the well in a timely fashion and shall have contingency plans to cope with the failure of the well.
4. Authorized officials of the Department shall be allowed to enter, inspect and/or sample:
  - a. the injection well and related facilities;
  - b. the owner or operator's records of the injection operation;
  - c. monitoring instrumentation associated with the injection operation; and
  - d. the injected fluids.
5. The injection facilities shall be operated and maintained to achieve compliance with all terms and conditions of this permit.
  - a. Proper operation and maintenance includes effective performance, adequate funding, operator staffing and training, and adequate laboratory and process control, including appropriate quality assurance procedures.
  - b. If compliance cannot be met, the owner shall take corrective action or terminate injection.
6. The owner shall mitigate any adverse impacts resulting from noncompliance with the terms and conditions of the permit.
7. If an injection well was constructed prior to issuance of this permit, it shall be brought into compliance with the terms and conditions of this permit in accordance with the schedule of compliance issued by the Director.

C. Requirements for Abandonment

1. Notice of abandonment shall be submitted on a form provided by the Director not less than ten

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working days prior to commencement of abandonment activities except as provided for under Attachment II.

2. Methods of abandonment for all injection wells shall be approved by the Director prior to commencement of the activity.
3. Notice of completion of abandonment shall be submitted to the Director within 30 days of completion.
4. All deep injection wells shall be plugged with cement grout or other impervious material in such a manner as to prevent movement of fluids into or between drinking water sources.
5. Following permanent cessation of use, or where an injection well is not completed, the Director shall be notified. Abandonment or other action, as prescribed by the Director shall be completed.
6. The injection well owner or operator shall maintain the financial responsibility to insure that the injection operation is abandoned as prescribed.
7. Temporary abandonment, including use of a welded steel plate to cover the well opening, or a packer to occlude the well bore does not exempt the owner or operator from the requirement to obtain a permit. A well that is permitted as temporarily abandoned must receive a new permit in order to inject fluids.

D. Monitoring, Record Keeping and Reporting Requirements

1. Monitoring

- a. All monitoring tests and analyses are to be performed by a state-certified laboratory or other laboratory, as approved by the Director, using recommended methods as defined in Idaho's Injection Well Rules and Regulations.
- b. All required field instruments shall be periodically tested and maintained to ensure accuracy of results.
- c. All samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity and fluids injected.

2. Record Keeping

- a. The permittee shall maintain records of all monitoring activities, to include:
  - 1) date, time and exact place of sampling;
  - 2) person or firm performing the analysis;
  - 3) date of analysis, analytical methods used and results of analysis;
  - 4) calibration and maintenance of all monitoring instruments; and
  - 5) all original tapes, strip charts or other data from continuous or automated monitoring instruments.
- b. The permittee shall retain for a period of five (5) years all records of monitoring, construction and application information.
  - 1) The period of retention for records shall be extended during the course of any litigation regarding the discharge of contaminants by the permittee or when requested by the Director.
  - 2) This requirement shall continue in effect during the five (5) year period following abandonment of the injection well.

3. Reporting

- a. All monitoring results shall be reported to the Director as prescribed by the permit.
- b. The Director shall be notified in writing by the permittee within five (5) days after the discovery of a violation of the terms and conditions of the permit. If an injection activity endangers human health or the environment, use of the injection well shall be immediately discontinued and the owner or operator shall immediately notify the Director. The notification shall contain the following information:
  - 1) a description of the violation and its cause;
  - 2) the duration of the violation, including dates and times; if not corrected or use of the well discontinued, the anticipated time of correction;
  - 3) steps being taken to reduce, eliminate and prevent recurrence of the discharge.
- c. Where the permittee becomes aware that it failed to submit any relevant facts in any permit application or reports to the Director, that person shall promptly submit such facts or information.

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- d. The permittee shall furnish the Director, within a reasonable time, any information which the Director may request to determine compliance with this permit.
- e. All permits, notices and reports submitted to the Director shall be signed and certified.
- f. The Director shall be notified in writing of planned physical alterations or additions to any facility related to the permitted injection well operation.
- g. Additional information to be reported to the Director in writing:
  - 1) transfers of ownership;
  - 2) any change in operational status not previously reported;
  - 3) any anticipated noncompliance;
  - 4) reports of progress toward meeting the requirements of any compliance schedule attached or assigned to this permit.

E. Additional conditions and requirements pertaining to this permit are shown on Attachment II.

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Permit No. 63-W-156  
Micron Technology, Inc.

**STATE OF IDAHO  
DEPARTMENT OF WATER RESOURCES**

**ATTACHMENT II  
SPECIAL CONDITIONS AND REQUIREMENTS PERTAINING  
TO CONSTRUCTING, MODIFYING, OPERATING AND/OR  
ABANDONING AN INJECTION WELL**

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1. Injected water shall meet primary maximum contaminant levels for drinking water standards for physical, chemical, biological and radiological contaminants at the wellhead.
2. Compliance with water quality standards shall be demonstrated through quarterly sampling of injectate (finished water) for coliform bacteria and total dissolved solids. Quarterly sampling results which demonstrate compliance with water quality standards shall be submitted to IDWR on an annual basis. Quarterly sampling indicating non-compliance shall be reported to IDWR within 72 hours of receipt of analysis. Annual reporting shall include summary of volume of water recharged and description of any structural or operational changes at the injection facility or general water quality changes of source water or injectate.
3. Demonstration of compliance described above shall be contingent upon treatment of injected water through membranes capable of removing microbiological contaminants including cryptosporidium and giardia. Continuous operational monitoring shall be conducted to ensure effectiveness of treatment prior to injection. Continuous monitoring of injectate (finished water) shall include particle count monitoring. Treatment facility and operational plan shall be available for inspection by IDWR.
4. Should the use of the well lead to degradation of the groundwater or harm beneficial uses, the permit may be amended or cancelled. The permittee may be required to mitigate for harm or degradation resulting from use of this injection well.
5. Total flow into the well shall not exceed 6,000 gallons per minute.
6. This permit shall expire on March 31, 2008. If use of the well is desired beyond this date, a new application must be filed.

MICRON TECHNOLOGY

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State of Idaho

DEPARTMENT OF WATER RESOURCES

2735 Airport Way, Boise, Idaho 83705

Phone: (208) 334-2190 FAX: (208) 334-2348 www.idwr.state.id.us/idwr/idwrhome.htm

DIRK KEMPTHORNE  
Governor

KARL J. DREHER  
Director

FAX TRANSMITTAL COVER SHEET

FAX # (208) 334-2348

DATE: 4-13-01

TO: Janice H.  
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FROM: Sue / Western Region  
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TOTAL PAGES SENT: 1 + COVER SHEET

CONTACT: Sue Taylor *JK - 4-13-01*

Hi Janice, I sent this regular mail on Thursday but the director wanted some changes made. Hopefully there is time to do this. I have circled the changed part. Thanks, Sue

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NOTICE OF APPLICATION FOR WATER RIGHT

**MICRON TECHNOLOGY INC.** of 8000 S. Federal Way, PO Box 6, Boise ID 83707 has applied to the Department of Water Resources for the following water right in T2N R3E, Ada County:

#63-31183 filed on 1/24/2001 for ground water for irrigation and year around industrial use. Irrigation will include 2 cfs for 100 acres, industrial use will include 10 cfs, and the total amount of water will be 10 cfs. Water will be diverted from 3 existing wells and 1 proposed well in SESW S6 and SWNE, SWNW & NESW S7. Water will be used in portions of Sections 6, 7, 8 and 18 for the Micron site east of Federal Way near the Interstate 84 Gowen exit in southeast Boise.

Applicant proposes to mitigate use of ground water to be withdrawn from the 600 to 1200 feet water bearing zone. Also see related Transfer Application No. 68944.

The permit(s) will be subject to all prior water rights. Protests may be submitted based on the criteria of Idaho Code, § 42-203A. Any protests against approval of this application must be filed with the Department of Water Resources, Western Region, 2735 Airport Way, Boise, ID 83705-5082, together with a protest fee of \$25 for each application on or before May 7, 2001. The protestant must also send a copy of the protest to the applicant.

Karl J. Dreher, Director

Published in the Idaho Statesman on April 19 and 26, 2001.

*REVISED Legal notice faxed to  
paper 4/13/01 per Director's  
instructions*

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*revised - per Karl - 4-13-01*



State of Idaho

**DEPARTMENT OF WATER RESOURCES**

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

FAX (208) 334-2348

DIRK KEMPTHORNE  
Governor

KARL J. DREHER  
Director

April 12, 2001

**Legal Notice Department**

IDAHO STATESMAN

PO BOX 40

BOISE ID 83707

RE: Transfer No. 68944

*W.R. # 63-31184*

Water Right No(s). 63-8992 63-9029

**Dear LEGAL NOTICE DEPARTMENT:**

Enclosed you will find a legal notice which we wish to have published in your newspaper on the dates indicated (once a week for two consecutive weekly issues). If you cannot publish the notice on the proposed dates, please contact us immediately.

An affidavit of publication must be submitted to the Department along with the publication bill. Please send the affidavit and bill to this office before 05/07/2001. Your cooperation is appreciated.

Sincerely

Sue Taylor  
Senior Secretary

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Applicant proposes to recover surface water authorized under existing water rights and injected into the aquifer. Recovery will occur from the 600 to 1200 feet water bearing zone. Also see related Transfer Application No. 68944.

The permit(s) will be subject to all prior water rights. Protests may be submitted based on the criteria of Idaho Code, § 42-203A. Any protests against approval of this application must be filed with the Department of Water Resources, Western Region, 2735 Airport Way, Boise, ID 83705-5082, together with a protest fee of \$25 for each application on or before May 7, 2001. The protestant must also send a copy of the protest to the applicant.

Karl J. Dreher, Director

Published in the Idaho Statesman on April 19 and 26, 2001.

don't  
say  
this

ORIGINAL ad ... told Statesman  
not to use per Director's  
instructions 4-13-01. Instead,  
used Renoist ad as shown.

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JL