

April 7, 2019

Nick Miller, P.E. Western Region Manager Idaho Department of Water Resources 2735 Airport Way Boise, ID 83705 RECEIVED

APR 08 2019

WATER RESOURCES WESTERN REGION

Subject: Rule 40 Additional Information for Application for Permit 63-34615

Dear Nick:

On behalf of Micron Technology, Inc. (Applicant or Micron), SPF Water Engineering (SPF) has prepared this letter to provide additional information related to application for permit 63-34615. The referenced application for permit seeks to divert a total of 10 cfs of groundwater for industrial use at Micron's main campus in southeast Boise, Idaho. The following provides background and additional information required under IDAPA 37.03.08 Rule 40.05.

BACKGROUND

Application for permit 63-34615 seeks authorization to divert up to 10 cfs of groundwater for industrial purposes. The diversion points include four existing wells (Wells 4, 5, 6, and 7) and two proposed wells (Wells 8 and 9) that are located on Micron's campus in Sections 6, 7, and 8 within Township 2 North, Range 3 East. Industrial water use will occur at Micron's production facilities within the same legal land description. The diversion points are located in the Southeast Boise Groundwater Management Area, but the water proposed for diversion will be fully mitigated because it will be recovered Boise River water authorized for ground water recharge. Water rights currently used for groundwater recharge include Nampa & Meridian Irrigation District (63-199B and 63-200B), Micron license 63-12420, and Bureau of Reclamation storage water from Anderson Ranch Reservoir. Micron has also submitted an application (63-34614) to divert additional water from the Boise River for ground water recharge through an existing injection well. Application 63-34615 is part of an effort to keep up with the Applicant's increasing water demands and plans for future development.

The application is intended to supplement license 63-31183 which authorizes diversion of 9.13 cfs of recharge-mitigated groundwater, but is limited to an annual diversion volume of 4506.7 acre feet in combination with Micron's decreed groundwater rights which also provide an annual diversion volume of 4506.7 acre feet. If approved, application for permit 63-34615 will allow Micron to divert in excess of 9.13 cfs and 4506.7 acre feet annually provided that diversions are adequately mitigated.

RULE 40.05 INFORMATION

The following paragraphs provide the additional information required from the applicant under Water Appropriation Rule 40.05.

IDAPA 37.03.08, 40.05.c: Effect on Existing Water Rights

I. For applications appropriating springs or surface streams with five (5) or fewer existing users, either the identification number, or the name and address of the user, and the location of the point of diversion and nature of use for each existing water right shall be submitted.

Not applicable. Application seeks authorization to divert groundwater.

II. For applications appropriating groundwater, a plat shall be submitted locating the proposed well relative to all existing wells and springs and permitted wells within a one-half mile radius of the proposed well.

The Idaho Department of Water Resources (IDWR) well construction GIS database shows a total of 13 other wells within a half-mile radius of the proposed diversion points (Micron Wells 4 through 9). Of those nearby wells, Micron is listed as the well owner on six of the well records, leaving seven wells owned by outside parties.

- Of the six Micron well records, Map Well Nos. 5, 7, and 8 are used for monitoring, Map Well No 18 has been abandoned (Map Well No. 19 is the abandonment record), and Map Well No. 17 is believed to be a well abandonment record.
- All seven of the non-Micron wells are for domestic use. One of these wells (Beech) appears to be actually located six miles to the west of the described location, but is included for completeness. Of the remaining six wells, Map Well Nos. 4, 14, and 15 are believed to have been abandoned. Attachment A provides a map of the nearby wells and their respective well logs.
- III. Information shall be submitted concerning any design, construction, or operation techniques which will be employed to eliminate or reduce the impact on other water rights.

The points of diversion for the project consist of 4 existing wells and 2 proposed wells. Water extracted from the aquifer under this permit will be mitigated by recharge of the aquifer using natural flow Boise River water from the Nampa & Meridian Irrigation District (63-199B and 63-200B) and Micron license 63-12420, and Boise River storage water delivered under a Bureau of Reclamation storage contract. Micron also has a pending application (63-34614) for an additional 12 cfs of Boise River flood water for recharge. Water injected into the aquifer under these water rights is currently recovered under

Micron license 63-31183. It is anticipated that conditions similar to those for 63-31183 will be placed on 63-34615. Those conditions include:

- 1. The water right holder must comply with the measuring and reporting requirements of the Southeast Boise Groundwater Management Area (SEBGWMA) and any management plan adopted by the director.
- 2. Water diverted from the points of diversion for this right shall be considered water authorized for withdrawal under other existing water rights to their full extent, as deliverable, unless otherwise requested by the water right holder.
- 3. In the event of water right curtailments in the SEBGWMA, out-of-priority diversions may be allowed under this right to the extent that (1) the diversions under this right are mitigated by groundwater recharge activities, and (2) diversions under this right do not injure senior water rights through direct well interference.
- 4. When mitigation is required, the entire volume of water injected by the right holder into the SEBGWMA aquifer for groundwater recharge, up to the total amounts authorized by this right and right 63-31183 can be diverted from the aquifer under this right during the calendar year it is injected. Water not diverted during the year it is injected can be carried over for future withdrawal and beneficial use associated with this right. The volume authorized for withdrawal will be reduced by 10% each calendar year following the first calendar year the water is injected.

The conditions are designed to limit groundwater withdrawals under 63-34615 and 63-31183 to the volume of water injected into the aquifer for recharge purposes, which prevents injury to senior water rights in the SEBGWMA.

IDAPA 37.03.08, 40.05.d: Sufficiency of Water Supply

Information shall be submitted on the water requirements of the proposed project, including, but not limited to, the required diversion rate during the peak use period and the average use period, the volume to be diverted per year, the period of year that water is required, and the volume of water that will be consumptively used per year.

The application seeks a maximum diversion rate of 10 cfs for industrial uses. The additional industrial supply is intended to help meet the Applicant's growing water demands. The applicant has an aggressive water recycling program that has historically kept diversions within the 4,506.7 acre-foot annual diversion volume limit under the applicant's existing groundwater rights. However, there is potential for this volume to be exceeded as demands increase or if manufacturing changes reduce the volume of water that can be recycled.

Water is utilized year-round without significant peak diversion periods.

Less than 20% of the diverted groundwater is consumed. The remainder of the water is either is discharged to the City of Boise municipal wastewater system.

Each of the proposed points of diversion for 63-34615 are wells located within the SEBGWMA boundary. The most recent annual report available for the groundwater management area shows that Micron diverted 2,868 acre-feet and injected 506 acre-feet in 2017 for a net groundwater withdrawal of 2,363 acre-feet. A copy of this report and the accompanying data are provided in Attachment B. The additional diversion requested under 63-34615 will not increase the net groundwater withdrawal beyond the currently authorized 4506.7 acre-foot limit because 63-34615 will be fully mitigated by Boise River water recharged into the aquifer. The volume to be diverted each year under 63-34615 will be dependent on the amount of recharge accomplished under the rights previously mentioned and will vary based on water availability in the Boise River system and water demands at Micron.

Information shall be submitted on the quantity of water available from the source applied for, including, but not limited to, information concerning flow rates for surface water sources available during periods of peak and average project water demand, information concerning the properties of the aquifers that water is to be taken from for groundwater sources, and information on other sources of supply that may be used to supplement the applied for water source.

The target aquifer is part of the SEBGWMA and is closely monitored to ensure that excessive drawdown does not occur. The 2017 annual report for the groundwater management area stated that aquifer water levels increased significantly around Micron from 2003 to 2015, but have experienced a slight decrease in recent years (Attachment B). In any case, the quantity of water available from the source aquifer under the proposed water right is dependent on recharge activities by Micron using Boise River water under separate water rights. It is anticipated that conditions similar to those imposed on Micron license 63-31183 will be applied to this application as well, as listed earlier in this report. Micron also holds several other water rights for industrial use which it can use to meet water demands, but these rights may be insufficient in the future as water demands continue to increase at the manufacturing facilities.

IDAPA 37.03.08, 40.05.e: Good Faith, Delay, or Speculative Purposes

1. The applicant shall submit copies of deeds, leases, easements or applications for rights-of-way from federal or state agencies documenting a possessory interest in the lands necessary for all project facilities and the place of use or if such interest can be obtained by eminent domain proceedings the applicant must show that appropriate actions are being taken to obtain the interest. Applicants for hydropower uses shall also submit

information required to demonstrate compliance with Sections 42-205 and 42-206, Idaho Code.

The Applicant will use 4 existing and 2 proposed well pumping facilities to pull water from the aquifer and transport it to the place of use within the southeast Boise Micron campus. All of the points of diversion and places of use listed on the application are located on land owned by the Applicant. Attachment C provides a map of the points of diversions, place of use, and parcels owned by the Applicant.

II. The applicant shall submit copies of applications for other needed permits, licenses and approvals, and must keep the department apprised of the status of the applications and any subsequent approvals or denials.

The applicant holds injection well permit 63W156001 for the applicant's aquifer recharge injection well. The permit is available in IDWR files.

The applicant has existing water rights for aquifer recharge including Nampa & Meridian Irrigation District (63-199B and 63-200B), Micron license 63-12420, and Bureau of Reclamation storage water from Anderson Ranch Reservoir.

No other approvals are necessary at this time. The Applicant will submit drilling permits for the proposed Well 8 and Well 9 points of diversion prior to construction.

IDAPA 37.03.08, 40.05.f: Financial Resources

 The applicant shall submit a current financial statement certified to show the accuracy of the information contained therein, or a financial commitment letter along with the financial statement of the lender or other evidence to show that it is reasonably probable that financing will be available to appropriate the water and apply it to the beneficial use proposed.

Micron Technology Inc. is a multi-billion dollar, publicly-traded company with significant financial resources available. The infrastructure for diverting water from Wells 4, 5, 6, and 7 is already in place and so will not result in any additional financial burden on the Applicant. Construction of Well 8 and Well 9 is planned for the future as Micron expands its production facilities.

Financial information for Micron can be accessed at the following link: http://investors.micron.com/ .

II. The applicant shall submit plans and specifications along with estimated construction costs for the project works. The plans shall be definite enough to allow for determination of project impacts and implications.

The project works for Wells 4, 5, 6, and 7 proposed for use under this water application have been previously constructed and are currently in use. No upgrades to the infrastructure for these wells are planned.

Two unconstructed wells are also proposed as points of diversion under this application, each located on land owned by the Applicant. The anticipated well dimensions are a diameter of 16 inches with a completed depth of 1,200 feet. Projected cost is roughly \$1 million per well.

IDAPA 37.03.08, 40.05.g: Conflict with the Local Public Interest

The applicant shall seek comment and shall submit all letters of comment on the effects of the construction and operation of the proposed project from the governing body of the city and/or county and tribal reservation within which the point of diversion and place of use are located, the Idaho Department of Fish and Game, the Idaho Department of Environmental Quality, and any irrigation district or canal company within which the proposed project is located and from other entities as determined by the Director.

Attachment D includes requests for comment letters submitted to the Idaho Department of Fish and Game, Idaho Department of Environmental Quality, Nampa & Meridian Irrigation District, and City of Boise. Requests for comment were previously sent out by the Department of Water Resources to the Southeast Boise Ground Water Management Advisory Committee and Boise Project Board of Control. Copies are included in Attachment D.

IDAPA 37.03.08, 40.05.h: Public Interest Criteria of Section 42-203C(2)

1. A project design and estimate of cost of development shall be submitted. For applications appropriating more than twenty-five (25) cfs, or ten thousand (10,000) AF of storage, or generating more than five (5) megawatts, the information shall be prepared and submitted by a qualified engineer licensed under the provisions of Chapter 12, Title 54, Idaho Code, unless waived by the Director. The design shall be definite enough to reflect the project's impacts and implications as required in subsequent rules.

The majority of the project works for this application already exist, but two new wells are proposed as future points of diversion. The new wells have not yet been constructed, but preliminary cost projections estimate a cost of roughly \$1 million per well for a total project cost of \$2 million. Cost estimates are based on construction of a 16-inch diameter, 1,200-foot deep well at each of the future diversion points and any required mechanical or conveyance piping.

II. If the project proposes development for irrigation purposes, information shall be submitted on crop rotation, including acreages, for lands when newly developed.

Not applicable. New irrigation development is not proposed.

III. Information shall be submitted concerning the number and kinds of jobs that will be created or eliminated as a direct result of project development including both the construction and operating phases of the project. If jobs are seasonal, the estimated number of months per year of employment shall be submitted.

No job elimination will be caused by this project. Increasing Micron's water supply prepares the company for future growth and potential work force expansion.

IV. For applications or permits being reprocessed for more than twenty-five (25) cfs, or more than ten thousand (10,000) AF of storage, or more than five (5) megawatts, information shall be submitted concerning the changes to community services that will be required during the construction and operation phases of the project including, but not limited to, changes to schools, roads, housing, public utilities and public health and safety facilities, if any.

Not applicable. The application is for less than twenty-five (25) cfs, less than ten thousand (10,000) AF of storage, and less than five (5) megawatts

V. Information shall be submitted concerning the source of energy for diverting and using water for the project, the estimated instantaneous demand and total amount of energy that will be used, the efficiency of use, and energy conservation methods.

The project will utilize utility grid power at all the proposed diversion points. Power supply has been previously installed and is operational at Wells 4, 5, 6, and 7. Power will be extended to serve Well 8 and Well 9 upon completion.

Assuming a full diversion of 10 cfs, approximately 1,000 pump horsepower is required. Each of the existing pumps and the planned pumps for Well 8 and Well 9 are high-efficiency vertical turbines that will be well-maintained. Using the same potential diversion volume of 400 af as anticipated for recharge under 63-34614, total energy use will be roughly 298,000 kW-hrs. Actual diversion volume will depend on annual water demand.

VI. Information shall be submitted concerning the location, amount, and quality of return flow water, and any water conservation features of the proposed project.

Water for industrial purposes will be used at the Applicant's plant for processes related to semiconductor and related product manufacturing, and used water will then be returned to the Boise River through the City of Boise municipal wastewater treatment plant. Micron also recycles a high percentage of the fresh water used in industrial processes which

conserves water by reducing the amount of fresh groundwater and surface water required for plant operations.

VII. If the project proposes irrigation as a use, information shall be submitted concerning the kinship, if any, of the operator of the land to be irrigated by the project to the applicant, the location and acreage of other irrigated lands owned, leased, or rented by the applicant, the names, addresses and number of shares held by each shareholder if the applicant is a corporation, evidence of tax-exempt status if a corporation is so claiming, a soil survey prepared in accordance with the U.S. Soil Conservation Service irrigatable land classification system, and a schedule for bringing into production the project lands.

Not applicable. Irrigation is not proposed as a water use.

Please contact me with any questions.

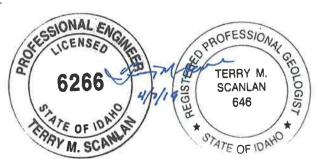
Sincerely,

Terry M. Scanlan, P.E., P.G.

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Principal Engineer/Hydrogeologist

Cc: Ann Dickey, Micron Technology Inc.



Attachments

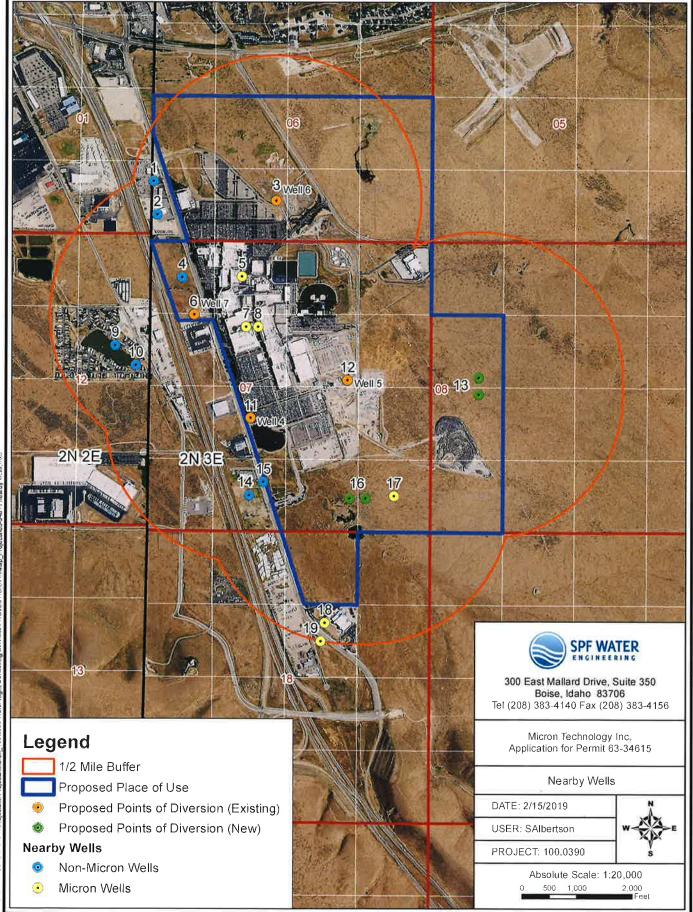
A - Nearby Wells and Associated Well Logs

C - POD and POU Ownership Map

B - SEBGWMA 2017 Report

D – Request for Comment Letters

Attachment A Nearby Wells and Associated Well Logs



Micron Application 63-34615 Nearby Well Table

Map Well No.	Owner	Construction Date	Permit ID	Township	Range	Section	QQQ	QQ	Quarter	Total Depth
1	CARLOS W DIMICK	10/14/1970	819918	02N	03E	6		sw	SW	413
2	WILLIS SHAW	1/20/1977	776203	02N	03E	6	SW	SW	SW	470
3	MICRON TECHNOLOGY INC	8/16/2006	838291	02N	03E	6		SE	SW	1095
4	BEECH	2/1/1972	820216	02N	03E	7		NW	NW	245
5	MICRON TECHNOLOGY INC	9/15/1983	816911	02N	03E	7		NE	NW	580
6	MICRON TECHNOLOGY INC	7/14/2016	877673	02N	03E	7		sw	NW	995
7	MICRON TECHNOLOGY INC	2/17/1998	731066	02N	03E	7	NW	SE	NW	811
8	MICRON TECHNOLOGY INC	1/9/1998	731067	02N	03E	7	NE	SE	NW	561
9	LEONARD EISEMAN	4/17/1975	783372	02N	03E	7	NE	SE	SE	505
10	LEONARD J EISENMAN	5/16/1965	855302	02N	02E	12	SE	NE	NE	503
11	MICRON TECHNOLOGY INC	6/30/1995	728934	02N	03E	7		NE	SW	1090
12	MICRON TECHNOLOGY INC	3/2/1998	729943	02N	03E	7		sw	NE	1217
13	MICRON TECHNOLOGY INC*	FUTURE	N/A	02N	03E	8		TBD	TBD	TBD
14	WILLIAM LOWE	7/30/1972	822501	02N	03E	7		SE	sw	420
15	HAROLD PETTIBONE	7/16/1994	728278	02N	03E	7		SE	SW	516
16	MICRON TECHNOLOGY INC*	FUTURE	N/A	02N	03E	7		TBD	TBD	TBD
17	MICRON TECHNOLOGY INC*	10/5/2000	767154	02N	03E	7		SE	SE	225
18	MICRON TECHNOLOGY INC	3/5/1993	842941	02N	03E	18		sw	NE	534
19	MICRON TECHNOLOGY INC*	UNK	779309	02N	03E	18		sw	NE	UNK

^{*}No log available

USE TYPEWRITER OR BALL POINT PEN

State of Idaho Department of Water Administration

Well 1

WELL DRILLER'S REPORT

State law requires that this report be filed with the State Reclamation Engineer within 30 days after completion or abandonment of the well. WATER LEVEL Department of Water Advantage of Marie Mar 1. WELL OWNER 7. WATER LEVEL Name CARlos W + FIVA D. DIMICK Flowing? Temperature F. Quality Boise, Ida Artesian closed-in pressure____ ____p.s.i. Owner's Permit No. _____ ☐ Cap ☐ Plug 2. NATURE OF WORK 8. WELL TEST DATA New well □ Deepened ☐ Replacement ☐ Pump 🗷 Bailer ☐ Other Discharge G.P.M. Draw Down Hours Pumped ☐ Abandoned (describe method of abandoning) 25 2 12' 3. PROPOSED USE 104065 🕰 Domestic ☐ Irrigation ☐ Test 9. LITHOLÓGIC LOG Hole Diam. Depth Water □ Municipal Industrial ☐ Stock From To Yes No 18 LAVA V 4. METHOD DRILLED LAVA ROCK Cable □ Rotory ☐ Dug ☐ Other 611 182 SAND AND BEAT 6" 199' 225' 6" 225' 350' JANO AND CRAVETS BOULDERS 5. WELL CONSTRUCTION 350' 412 PEA CROVEL SAND Diameter of hole _____ inches Total depth 4/13 feet Casing schedule: ☐ Concrete inches _____ feet _ inches _ _ inches _ feet feet inches _ _ inches _ _ feet Was a packer or seal used? ☐ Yes 2 No Perforated? ☐ Yes ₽ No How perforated? ☐ Factory ☐ Knife ☐ Torch Size of perforation _____ inches by _ inches Number From _ perforations _ ______ feet _ _ feat perforations ____ ____ feet _ _ perforations ___ ___ feet _ Well screen installed? ☐ Yes A No Manufacturer's name _ __ Model No. _ Diameter Slot size Set from feet to Diameter Slot size Set from feet to Placed from_ _____ feet to____ Material used in seal ☐ Cement grout ☑ Puddling clay 6. LOCATION OF WELL Sketch map location must agree with written location. Work started August 19 thished OCT 14 th 11. DRILLER'S CERTIFICATION This well was drilled under my supervision and this report is true to the best of my knowledge.

Well 2 USE TYPEWRITER OR BALLPOINT PEN

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

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-most of the well-mo

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Owner's Permit No.				d-in pressurep.s.i. : ☐ Valve ☐ Cap ☐	Plug		
2. NATURE OF WORK	8.	WELL	TEST	DATA			
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☐ Abandoned (describe method of abandoning)	DI	acharge	-	Drawdown	Hours Pur	nped	
			-				
3. PROPOSED USE					Vere visita		
☑ Domestic □ Irrigation □ Test □ Other (specify type)	9.	LITHO	LOGIC	LOG	06037		
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☐ Cable ☑ Rotary ☐ Dug ☐ Other	10.3	3	30	Gear - Born Loan			_
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inches inches feet feet	4	3 18	302	Soul		1	
Was casing drive shoe used? □ Yes □ No Was a packer or seal used? □ Yes □ No	6	402	430	Chay + SANd.	-GRAVE!	4	
Perforated?							
How perforated?							
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perforations feet feet			1		West.		
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Diameter Slot size Set from feet to feet				Departor to the Departor to th	and Liffice		
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Placed from							
Puddling clay Well cuttings						_	
Sealing procedure used: Slurry pit Temporary surface casing					-		
Overbore to seal depth				THE R. LEWIS CO., LANSING, MICH.			
8. LOCATION OF WELL 63							
Sketch map location must agree with written location.	10.					•	
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Form 238-7 3 IDAHO DEPARTMENT OF WATER RESO WELL DRILLER'S REPORT)UR	CES	VV	eli 3	Well II	D No. 4086	73	-
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73-31183, 63-8992, 63-9029		XX	ump	☐ Bailer	☐ Air	☐ Flowing Artesian	1	
2. OWNER:		Yield gal	/min.	Drawdow	'n	Pumping Level	Time	
Name Micron Technology	_							
Address 8000 S Federal Way								
City Boise State ID Zip 83707	acksquare							
You must provide address or Lot, Blk, Sub. or Directions to well. Twp. 2 North X or South AUG 2 9 2006 Rge. 3 East XX or West WATER RESOURCE	Wate	er Qualit	y test or	comments:		Bottom hole Depth first Water Er rs or abandonment)	ncounter	
Sec. 6 County Ada 1/4 Sydle 1/4 WESTERN REGIO	N Bore Dia.	From	То	Remarks: L	ithology,	Water Quality & Temperatu	re Y	N
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(Grow at least name of road + Distance to Poad of Landmann) Lt Blk Sub. Name Micron Tech. Campus		58	75			basalt		X
		75	80	hard b				X
4. USE:		80	81	yoid				X
4. USE: □ Domestic □ Municipal □ Monitor □ Irrigation		81	115	broken				Х
☐ Thermal ☐ Injection ☐ Other <u>industria</u>]			197	cement	ed sa	nd, grayel, bo	u 1 dei	r\$X
		197	207	brown	clay	& gravel		X
5. TYPE OF WORK check all that apply (Replacement etc.)		207	215	sand &	grav	el		Х
XX New Well ☐ Modify ☐ Abandonment ☐ Other			216	clay				Х
6 DOUL METHOD			245	gravel				Χ
6. DRILL METHOD: □ Air Rotary □ Cable □ Mud Rotary □ Other reverse rot	any		252			d, thin clay s	treal	K\$X
Distribution Distr	19	1232	268	clay &				X
7. SEALING PROCEDURES	13	268	280			d & gravel		X
Seal Material From To Weight / Volume Seal Placement Method			300	sand &	fine	r gravel		X
hantonito ships 0 252 12 2 vd poupod			387	sand &	grav	el		X
coment apout 0 700 406 sk numbed			390	clay				X
Cement grout 0 700 496 sk pumped Was drive shoe used? Y y N Shoe Depth(s) Was drive shoe seal tested? Y y N How?			400	sand &				X
Was drive shoe seal tested? \(\sigma\) Y \(\sigma\) \(\sigma\) How? \(\sigma\)	_		412			<u>& gravel</u>		X
A	-		450	sand &				X
8. CASING/LINER:	_		470			d & gravel	X	11.
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16" +2 700 375 steel XX	\vdash		505	tan cl			_	X
Length of Headpipe Length of Tailpipe	-		50.7	yellow				X
			510	white		and observe	X	X
XX TIGHTER SWEEDE DACK 5 10	, =		520			and streaks	-	X
9. PERFORATIONS/SCREENS PACKER TYPE long 4'6" 12" X.37	0		560 570	sand, white		el, clay streak	X	+^
Perforation Method Cas mg				white	Sanu b car	d & anavol	X	+
Screen Type & Method of Installation		370	620	reduis	II 2dl	nd & gravel	^_^	
From To Slot Size Number Diameter Material Casing Liner See attached		mpleted		1,082' b		of tail pipe Completed _8,	*	
				ERTIFICATION	_		- 5,0	
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Filter Material From To Weight / Volume Placement Method #6-9 sand 690 1095 270 cu poured	time		vas rem			H	, 1 ₀ 53	
	55111	- June 140		MAIA		X 11 11 11 11 11 11 11 11 11 11 11 11 11		
11. STATIC WATER LEVEL OR ARTESIAN PRESSURE:		cipal Dri	ler	MA	1	Date	1/21/	06_
462_ft. below ground Artesian pressurelb.	and	n. n. O	orotoc U	1/10	X	ON MAL	QI.	
Depth flow encounteredft. Describe access port or control devices:	UTINE	er or Op	eratof II		Ol	C VV - UMB		
	Ope	rator I			0.75%	Date		
	•		_			Operator Required.		
FORWARD WHITE COPY	TO W	VATER			ive signat	rure of Driller/Operator II.		
	• •							

Form 238-7 6/02

IDAHO DEPARTMENT OF WATER RESOURCES WELL DRILLER'S REPORT

	C	ffice L	Jse Only	1
Well	ID No			
Inspe	cted I	оу 🔙		
Twp		Rge	Se	ec
	1/4		1/4	1/4
Lat:	(1)	:	Long:	: :

WELL DRILLER 3 REPORT	•	DΛ	CE 2	of 2	Twp RgeSec _		
1. WELL TAG NO. D		F P	IGL Z	01 2	1/41		
DRILLING PERMIT NO.	12. WE	LLT	ESTS:		Lat: : Long: :		
Water Right or Injection Well No.		□ Pi		□ Bailer	☐ Air ☐ Flowing Artesian	- 10	_1
2. OWNER:		d gal./		Drawdown		Time	
Name Micron Technology							
Address							
Address State Zip							
	Water Te	emp.			Bottom hole to	emp.	
3. LOCATION OF WELL by legal description:							
You must provide address or Lot, Blk, Sub. or Directions to well.	,,,,,,,	<u>-</u>	100101	_			
Twp North □ or South □	12 LITI	uoi.	OGIC I	OG: /Donoril	Depth first Water Enco be repairs or abandonment)		
Rge Fast □ or West □		HOL	OGIO L	.oa. (Descrit	be repairs or abandonnent)	V	Vater
Sec, 1/4 1/4 1/4 1/4 Gov't Lot 70 acres County 1/4 acres 1/4 160 acres	Bore Dia.	rom	То	Remarks: Li	ithology, Water Quality & Temperature	Υ	N
Lat: : : Long: : :	19 6	20	631	brown	clay		Х
Address of Well Site			642	sand &	fine gravel	Х	10
City			656		gravel	X	
(Give at least name of road + Otstance to Read or Landmark)	6		700	roddis	h sand & gravel	X	
Lt Blk Sub. Name	15 7				gravel	X	
			740		gravel & boulders	X	
4. USE:			780		gravel a nounders	x	
			798	Sanu o	h sand & gravel	x	
□ Domestic □ Municipal □ Monitor □ Irrigation □ Thermal □ Injection □ Other			808			^	X
Differinal Differior Dotter			900	Clay	avenue 1	X	
5. TYPE OF WORK check all that apply (Replacement etc.)				Sana a	gravel	1^	Х
□ New Well □ Modify □ Abandonment □ Other			902	Clay	sand	Х	^
			920			X	
6. DRILL METHOD:			1000	Sand &	gravel		
☐ Air Rotary ☐ Cable ☐ Mud Rotary ☐ Other			101	sand,	gravel with clay st	Hak V	+
7 CEALING PROCEDURES			103			^	X
7. SEALING PROCEDURES			104		1	Х	
Seal Material From To Weight / Volume Seal Placement Method	10	43	107	sand 8	gravel		X
	10	70	10/	стау	gravel	Т.х	
No division of the control of the co	10	1/8	109	sand 8	gravel	1-0	
Was drive shoe used?	10	190	109	sand,	gravel & boulders	——X	
YYdd dilve Slide Sedi lested: 1 N Ndw!						+	+
8. CASING/LINER:					e:	+	
Dlameter From To Gauge Material Casing Liner Welded Threaded					-		
						+	
			-			-	
		\neg		swab 1s	sand locked in tail	+	
Length of Headpipe Length of Tailpipe				p1pe	top of tool is 1050'	+	+
Packer						1	
						1	
9. PERFORATIONS/SCREENS PACKER TYPE							
Perforation Method			\neg				
Screen Type & Method of Installation				-		-	
From To Slot Size Number Diameter Material Casing Liner	Comple	eted [Depth		10	Measui	rable)
	Date:	Start	ed		Completed		_
				RTIFICATION			
10. FILTER PACK					nstruction standards were complied v	ith at t	the
Filter Material From To Weight / Volume Placement Method	time the	rig w	as remo	ved.			
	Company	v Nar	me		Firm	No.	
11. STATIC WATER LEVEL OR ARTESIAN PRESSURE:		Drille	er	3	Date		
ft. below ground Artesian pressurelb.	and	<u> </u>	ande i U	,			
Depth flow encounteredft. Describe access port or control devices:	Driller or	Ope	rator II.		Date		
	Operator	1			Date		
				Principal Driller	and Rig Operator Required.		

Screen Schedule Micron Well No. 6

#9	10-inc	h well s	screen	10-inc	h blank	casing	#8 15	iner
	Start	End	Length	Start	End	Length		
			0	690	695	5		
	695	700	5	700	710	10		
	710	725	15	725	756	31		
	756	796	40	796	816	20		
	816	886	70	886	905	19		
	905	955	50	955	970	15		
	970	980	10	980	990	10		
	990	1000	10	1000	1020	20		
	1020	1035	15	1035	1042	7		
	1042	1072	30	1072	1092	220xx	10	
	Total		245			AXXXX	197	

All screens 40 slot, 304 stainless steel $\,$ V wire by Johnson

USE TYPEWRITER OR BALL POINT PEN

Well 4

State of Idaho Department of Water Administration

WELL DRILLER'S REPORT

State law requires that this report be filed with the State Reclamation Engineer within 30 days after completion or abandonment of the well,

Rue 13-11

1.	WELL OWNER	7. W	ATER	LEVEL	7 S			-
	Name Mr. Beech	St	atic wa	ter level	165 feet below land surf	face	0.00	
	The state of the s	Fi	owing?	☐ Ye	s • No G.P.M. flow_ ° F. Quality		. <u>.</u>	
	Address S. Cole Road				pressurep.s.i.		ā	-
	Owner's Permit No.	C	ontroile	d by) Plug	×	
2.	NATURE OF WORK	8. W	ELLTE	ST DA1	ŢA .	40	ij	2
	New well ☐ Deepened ☐ Replacement		Pump		🛱 Bailer 🔲 Other		65	
	☐ Abandoned (describe method of abandoning)	Di	scharge (G.P.M.	Draw Down	Hours Pur	mped	
			40					
_					·		- 30	
3.	PROPOSED USE			7.7	4/1	4004		
		9. L	ITHOL	OGIC L	$_{OG}$ 10	4061		
	☐ Municipal ☐ Industrial ☐ Stock	Hole Diem.	From	To	Material		Yes	-
-	METUOD DOUL ED	10	0	7	Dirt			
4.	METHOD DRILLED		7	18	Sandy Dirt		-	
	⚠ Cable ☐ Rotory ☐ Dug ☐ Other		18	160 245	Gravel Gement		*	
_	WELL CONSTRUCTION			-279	07.4.4.2.7			
) ³ .	WELL CONSTRUCTION				400			-0-
	Diameter of hole 10 inches Total depth 245 feet							
	Casing schedule: ☐ Steel ☐ Concrete Thickness Diameter From To		A.					_
	_025 inches 10 inches +1 feet 245feet							1
	inches feet feet							
1	inches inches feet feet feet inches feet feet						- 5	
	inches inches feet feet	_				**		
	The state of the s		-					
	Was a packer or seal used? ☐ Yes							
	How perforated? Factory Knife Torch			-				
	Size of perforation inches by inches						-	
	Number From To perforations feet feet				Name and the same			
	perforations feet feet	-					-	-
	perforations feet feet							
	Well screen installed? ☐ Yes 🐿 No	Note	that	the lo	cation description for	this well	rep	ort
	Manufacturer's name Model No	Sugg	est th	error	The static water lev	is in Town	shi	5 n 2
	Type Model No feet to feet to feet				Township 3 east as I			
	Diameter Slot size Set from feet to feet	repo	rt.				-	_
	Gravel packed?							
,,	1 x 1 x x			-511				
/	Surface seal? Yes							
_	The content grout The reading clay							
6.	LOCATION OF WELL		- 15	1			-	1112
	Sketch map location must agree with written location.	10.						ý.
	N I	w	ork star	ted	Feb 72 finished	Feb 72		
	·					100	2775V	(E
	w =				RTIFICATION lied under my supervision and	d this report i		
	·				of my knowledge.	a una report i		
91/2	./_ []				3, 5			
٥,	10 8°	Ru	asel ritler's or	Cowe	Drilling	Numb	ær	-
	County <u>ÀTIÀ</u>		Bo		4-1	97		_
	NW	A	ddress	Ku	uel Cou	٠ صر		
	Lot 2 BM	Si	gned By	1-100		Dilte		-



STATE OF IDAHO DEPARTMENT OF WATER RESOURCES

USE TYPEWRITER OR

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.

1. WELL OWNER	7.	WAT	ER LE	VEL	1 Designation	at Natur inte		ş
Name Mic RON Technology INC.		Canal		#114				
18.10 No. 2012		Flow	ing?	LIYes D≣N	feet below la G.P.M. flo	w		
Address 2805 E. Columbia Boise, Idah	2				re p.s.i re □ Cap □	3 Plug		
Owner's Permit No.					Quality			
2. NATURE OF WORK	8.			DATA	or temperature zones	pelow.		
☑ New well ☐ Despened ☐ Replacement	1		ımp		251 Air □	Other		
 Abandoned (describe abandonment procedures such as materials, plug depths, etc. in lithologic log) 			ge G.P.N					
materials, pray deptils, etc. In lithologic log)		100	_		Pumping Level	Hours Pu	mped	
3. PROPOSED USE	-						-	
						35229		
□ Domestic □ Irrigation 浏 Test □ Municipal □ Industrial □ Stock □ Waste Disposal or Injection	9.	LITH	IOLOG	IC LOG				
☐ Other (specify type)	Bore		pth To		Material		_	ter
4. METHOD DRILLED	17	0	3	BROW	N CLAY		¥ 65	s No
** **	13	30	50	BLACK	BASALT			X
☑ Rotary ☑ Air ☐ Hydraulic ☐ Reverse rotary ☐ Cable ☐ Dug ☐ Other	17	50	52	BLACK	BASALT	-		x
	12		145		BASALT	e Pour	-	X
5. WELL CONSTRUCTION	8	450	495	Comented	SANS DRAVEL	+ BOULDERS		x
Casing schedule: ⊠ Steel □ Concrete □ Other	8	495	510	BROWN	SAND W/ C	LAU	_	X
Thickness Diameter From To 250 inches 12 Inches + 1 feet 52 feet	18	515	1537	FINE OF	DU SONNES	mall apaux	X	
1200 inches 10 inches - 30 feet 280 feet	8	137	568	SANH, 9	RAVEL + Ro	HLDERS	X	-
inches inches + 2 feet 553 feet inches feet feet	0	ZERO	000	PINE 9	RAY SAN	2	×	_
Was casing drive shoe used? Ø Yes ☐ No					25 5 5			
Was a packer or seal used? ☐ Yes 🗷 No					* * ***		_	-
Perforeted? ☐ Yes								
Size of perforation inches by inches					HOUSE LAND OF THE			
Number From To	-						-	-
perforations feet feet feet feet								
perforations feet feet								
Well screen installed?				030	राजा स्वास्त्र स्वास्त्र	63		
rype Model No.		_		10)17				
Diameter Slot size Set from feet to feet				1	-	b		
Diameter Slot size Set from feet to feet Gravel packed? ☐ Yes ☑ No ☐ Size of gravel				00	T 0 5 1983			
Placed from feet to feet					t of Water Resource	AS .	_	
Surface seal depth 52 Material used in seal: 🗷 Cement grout				erimen Waster	n Regional Office			
Sealing procedure used: Slurry pit Temp, surface casing								
■ Overbore to seal depth Method of joining casing: □ Threaded ■ Welded □ Solvent								-1
Weld	_	11150						_
Cemented between strata	10.				ma'			-
Describe access port SewiTARY Well Seal	10.	Wor	k starte	ed <u>7-//-</u>	83 finished	9-15-8	3	. [
6. LOCATION OF WELL MCDOFU MED	- 10	_				DQ.		\dashv
Sketch map location must agree with written location.	11.			ERTIFICAT	1014			-1
N					num well constru the rig was remove		s we	re
Subdivision Name					97.00		-1	- 1
W 7 - E		Firm N	ame 🚱	CSTRIN + YOU	VKE PRILLING IT	m No. <u>408</u>	2	- [
	,	Addres	s RI	DONNEL	y, Idahoa	te 9-15-8	3	. [
Lot No Block No				m Official)	11	47	-	<u> </u>
\$ 5	•	- iAiisa		and	_	· Much		_
County Ada			ır)perator)	Phtw.	ST.		
NE & NW & Ser 7 TON N/S B 3F EAN			,,_	- Former (ATTEN -	a.a.vzv		-

63

IDAHO DEPARTMENT OF WATER RESOURCES WELL DRILLER'S REPORT

1 0		$\overline{}$
IVV	'ei	16

1. WEL	L TAG	NO. D	00716	61						12.0	TATIO	WATER	I EVEL and WELL TEATO			
				377674				-					R LEVEL and WELL TESTS: ountered (ft) Static water	- lau-1 (6)	LK	79
Water	ight or in	jection w	rell#							Mate	tome (ter enicc	Static water	r level (II)	_10	~
2. OWN	IER:												Bottom hole temp (·F)		
		1 Tech	nolog	y Inc.						Well		sa port		nethod:		_
	POI	Box 6									rdown (fee	Di Di	scharge of Test duration		Air	Flowing
City B	oise			SI	_{ate} ID		Zip 83	707			450				_	artesian
3.WELI	LOCA					_				-	1-11	-	000 940	H	R	
Twp. 2	No	orth 🔀	or So	uth 🔲	Ros 3	1	Foet 🔽	l or	West 🗆	Water	quality	test or c	omments:		_	_
Sec. 7				1/4 S.	W.rw.	N.V	V. 1/	4	**E3L [_]				G and/or repairs or abandonme	nt:		
	3			5 60 00	807.84	150 e	C169	•		Bare Die,	From	To	Remarks, lithology or description of	repairs or	V	Vator
Gov't Lo	t		County A	Ada						(in)	(n)	(ft)	abandonment, water temp	•	Υ	N
Lat.	4	30	31.649)		(Dr	g, and D	ecimal n	ninutes)	30"	0'		Topsoil			X
Long.	1.	16 。	9.023	k		(De	g and D	ecimal m	(cetuni	-	5' 13'		Cemented gravel			X
Address	of Well	Site ea	St of th	ne exist	ng wel	and	west	of		24"	54'		Broken basalt Broken basalt	-	_	X
Feder	al Way	1		Ci	y Boise	1					160'		Cinders			X
(Cive at least	name of mode ICI	+ Destance to	Hond or Lan	driws)	·					-	167'		Sand & gravel		+	X
		ĸ	_ Sub.	Name				7.7			217'		Tan clay		-	X
4. USE:		Municir	nal II	Monitor	☐ Iminatik	ο Г	Ther		lalaetia-		219'		Tan clay with sand		1	X
Other	Indus	trial	- L	WOIND	III III Jau	// L	Tinen	creat	1 Injection	20"	221'		Tan clay with sand			X
5. TYPE	OF W	ORK:									252'		Quarts sand			х
□ New	well 2	Replac	ement v	vell 🔲 N	Addify exi	sting w	rell				267'		Talky clay			X
☐ Aban	donment		ther								275'		Brown clay			Х
6. DRIL	L METH	IOD:				-	ever	a Da	ton		289'		Streaks of sand & clay			Х
				☐ Cable	· Lo	her 🖺	.6ve1	e No	шу		440' 450'		Rusty tan clay			X
7. SEAL	ING PF	ROCEDI	JRES:	ft) Quantity	The or Mil	Otes				-	475'	547	sand & gravel Clean sand & gravel			X
		0 qi	22	1' 13.5	vards	Pour	ed menum	euroczpn	ocedure		547'		Sand & gravel with clay stre	ake	X	-
	ment	0'		0' 43				_		16"	670'	688	Clay	aks	×	₩
8. CASI				0 1 40	rarus	r uiti	peu	_		16	688'		Sand & gravel		×	X
Diameter (nominal)			Gauge/	Liter	erial		illan 1				715'		Clay		┤ ^	×
			Schedule		erreu		_	_	Welded		718'		Sand & gravel	_	X	اث
20"	-2'	221'		Steel					×		738'	755'	Clay			X
16"	+2'	686'	.375	Steel		X	□		×	202	755		Sand gravel with clay streak	s	Х	
											777'		Clay			X
											783		Sand & gravel		×	
Was driv	e shoe u	sed? [1 × 121	N Shoe D	enth(s)	!					825' 840'		Clay			Х
9. PERF					- dpartay			- 100		-	880'	885	Sand & gravel		X	
Perforation										-	885'		Sand & gravel		1.	×
. da da	7115 L	· [A] N	Menic	Type Jo	hnson	\/ <u>o</u> a	Miro					930'	Clav		X	-
Method c	ured sci	reen (X)	Y LII	Type 00	migon	<u> </u>	44116				930'	1002'	Sand & gravel		X	×
Method c	if installa	ation <u></u>	Weled					_								
From (It)	To (ft)	Slot size	Number	n Diameter	Mati	taine	Gau	ge or Sc	chedule	Comple	ted Dept	h (Mana	100 100 100 100 100 100 100 100 100 100		-	-
			See	e pa	ie 2		1				arted: Fe		ui auto).	114 201	16	
				-	9		1							1 14, 20	10	
							+			14. DF	ILLER'	S CERT	ΠFICATION: imum well construction standards we			
ength of	Headni	na 23'		Lone	of Tail	pipe 2	20'	-		the time	the rig	was ren	noved.	ne combii	ied with a	36
Dacker F	7 V 17	M Tupo	Figu	re K ren	novable	9 5' k	ong 1	2" ca	sing		_		1-1111	. 15	:3	
					101001		Jing .	L Gu	onig_	Compa	пу магн	9	May Wille	o. Na. <u>15</u>		
10.FILTE						- 1	-			*Princip	al Drille	100	1000 1000	Date Aug	3, 201	3
	Material	Fron			antity (ibs			ement m	ethod	*Driller	1	1/2	NATE .	oate Aug	3, 201	6
6-9	sand	66	1	,000' 31	,500 lb	s	Poure	d				1		rate		_
										*Opera	tor II			Date		_
11. FLO\	MING A	RTESIA	AN:							Operati	x I		D	ate		
Flowing A	rtesian?	Y	Z N A	rtesian Pre	ssure (P	SIG)_				* Ql	turn of	Delaci-	al Driller and righter to requi			
Describe	control o	device_								əiyilə	rais Oli	rmcip	a numer sud udlobetate future in	AsdF	J	

SEP 14 2016

					T -
	So	reen and C	asing Scheo	lule	
		Micron V	Vell No.7	3650	vall
10-inch	nSS Well	Screen	10-ind	h Blank (Casing
Start	End	Length	Start	End	Length
			660	683	23
683	738	55			
r			738	760	22
760 -	780	20		41	
			780	792	12
792	827	35			
			827	850	23
850	870	20			
		,	870	885	15
885	915	30			
	9		915	935	20
935	975	40			X
***************************************		7700	975	995	20
	Total.	200	0	Total	135
* All v	veli scree	ns to be 0.0)40-inch slot	size	*

Form 238-7 3/95

IDAHO DEPARTMENT OF WATER RESOURCES

WELL DRILLER'S REPORT Use Typewriter or Ballpoint Pen

061041

Inspe			e Use (Only	_
Twp.		_ F	Rge	_Sec_	
	1/4		_1/4 _	1/4	
Lat:	(0)	2	Long:	1	÷
Γ'ι Air			Flowing	Artesian	

18.

1. DRILLING PERMIT NO. 63 - 97 - C - 0854 - 001 Other IDWR ND 000276	11. WELL TE	STS: □ Bailer	Lat: : : Long:	. : Δrtesian	
VOC - SCHOOLS SCHOOL	Yield gal./min.	Drawdown		Tim	ie]
2. OWNER: Name Micron Technology Inc	20			2	
Address 8000 South Federal Way P.O. Box 6					
City Boise State Id Zip 83707				and the same	
	Water Temp.		Bottom h	nole temp.	
3. LOCATION OF WELL by legal description:		st or comments:			
Sketch map location must agree with written location.			Depth first Water End	ountered.	
N	12. LITHOLO	GIC LOG: (De:	scribe repairs or abando	onment)	Water
Twp. 2 North 🕸 or South 🗆	Bore Dia From To	Remarks: Litho	ology, Water Quality & Temp	perature	y N
Twp. 2 North X or South Rge. 3 East X or West	12% 0 1		Odex	- 2500	
W Sec. 7 NW 1/4 SE 1/4 1/4	8 18 4				
Gov't Lot County 40 acres 160 acres	8 45 6		inders		11
Lat: : Long: :	8 65 10		n hard cement	ed of	£
Address of Well Site 8000 South	8 10012		Gray Lava		
Federal Way City Boise (Give all least name of road + Distance to Food or Landmark)	8 12313				
(Give at least name of road + Distance to Road or Landmark)	8 13615				
Lt BlkSub. Name	8 15015		Lava Water T	alc	
	8 15315		Lava Water T		
4. USE:	8 15716	5 Gray 1	Lava Cement		
□ □ Domestic □ Municipal ☒ Monitor □ Irrigation	8 16517	4 brown	Lava		
☐ Thermal ☐ Injection ☐ Other	8 17418		Lava		
5. TYPE OF WORK check all that apply (Replacement etc.)	8 18024		ers & Gravels	:	
X New Well □ Modify □ Abandonment □ Other	8" 24545		gravels & Sa	ınd	
6. DRILL METHOD	8 45047				
☐ Air Rotary ☐ Cable 🔼 Mud Rotary ☐ Other	8 47047				
T OF ALMO BECOFFINES	8 47155		Gravels & Sa	ind	\rightarrow
7. SEALING PROCEDURES	8 55756			-+	_
SEAL/FILTER PACK AMOUNT METHOD Malerial From To Sacks or	8 56177			7	\rightarrow
Pounds	8 77080		Gravels & Sa	na	\dashv
Senotnite 0 18 300 Odex Cement 18"800 108sack OverBore	67/8 800 8	11 Med Sa	and		
					-
Ramped upotion			a).4441		-
Was drive shoe used? □ Y X N Shoe Depth(s) Was drive shoe seal tested? □ Y ▼ N How?		HARLEST ACTION	SINC FARACIEROS I		
8. CASING/LINER:		RECI	EIVED		
Diameter From To Gauge Malerial Casing Liner Welded Threaded					-
10 +2 18 250 Steel X		MAR D	4 1998		
6 +18"800 250 Steel x □ 🔻 □	RECE	V E.D.	SCROHOARA		0.555
4 781 801 250 Steel □ 😾 🕱 □		WESTER	IN REGION		W 1
Length of Headpipe 20' Length of Tailpipe	MAR D	8 1998			
9. PERFORATIONS/SCREENS					
□ Perforations Method	Department of Y	Nathr Resources			
X Screens Screen Type Johnsons	Completed De	pth	811	(Meası	urable)
r. —	Date: Started	1-11-98	Completed2	2-17-9	8
From To Slot Size Number Diameter Material Casing Liner	40.000.100				
801 811 020 4 St.Steel Cx		R'S CERTIFICA			a. 20
	the time the rig v		construction standards we	re compile	ed with at
	ŭ				
	Firm Name_Hi	ddleston	& Son Inc	_Firm No	35
10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:	3	12		76	100
497 ft. below ground Artesian pressurelb.	Firm Official	103	Date	2/2	170
Depth flow encounteredft. Describe access port or	and	1.	1000	201	00
control devices:	Supervisor or O	//	Date Date	XXE	-70
		Sign once	il Firm Official & Operator)		

Form 238-7 3/95

IDAHO DEPARTMENT OF WATER RESOURCES

Well 8

Use Typewriter or Ballpoint Pen

Location Corrected by IDWR To: T02N R03E Sec. 7 NESENW By: mciscell 2012-09-06

				1		4	4	
1. DRILLING PERMIT NO. 63 - 97 - C - 0855 - 001	11. V	NEK.	(TES)	193G	Lat:	: Long:		
Other IDWR No. <u>D000277</u>	12.00	⊒¥u	щь <u>"</u> - ,	☐ Bàiler	□ Air	☐ Flowing Artes	an	
2. OWNER:		'leld gal./r	nin.	Drawdown		Pumping Level	Time	
Name Micron Technology	-	10_			_			
Address 8000 S Federal Way P.O. Box 6	-						-	
Clty Boise State ID Zip 83707		_						
2 LOCATION OF WELL by local descriptions						Bottom hole t	emp	
3. LOCATION OF WELL by legal description:	vvate	r Quain	y test c	or comments: _				
Sketch map location must agree with written location.	12 1	ITHO	I OCI	IC L OG: (De	Dept	h first Water Encount pairs or abandonm e		
T T T T T T T T T T T T T T T T T T T			LOGI	TO LOG. (DE	scribe re	pairs of abandoning	m) w	ater
Twp. 2 North or South	Bore Dia.	From	то	Remarks: Lithe	ology, Wat	er Quality & Temperati	ıre Y	N
Rge. 3 East 🗽 or West 🗆	12	0	18	Fill				
	8	18	45		Lava			
Sec. 7 , NW 1/4 SE 1/4 1/4 Gov't Lot County Ada 1/4 Ada	8_	45	65	Red C				
Lat: : Long: :	8		128	Broke				
Address of Well Site 8000 S Federal		128			Lava			
Way City Boise (Give at loast name of road + Distance to Road or Landmark)		136	17.51.53.50		Lava	Water ta	LC	
		157	10.					
Lt BlkSub. Name		165						1
		174					-	\vdash
4. USE:		180						-
☐ Domestic ☐ Municipal ☑ Monitor ☐ Irrigation		240					_	\vdash
☐ Thermal ☐ Injection ☐ Other		380 450					-	+
5. TYPE OF WORK check all that apply (Replacement etc.)		461				el & sand	-	+
Xi New Well		555					ж	+
6. DRILL METHOD ☐ Cable ☐ Mud Rotary ☐ Other		558					x	
Emil Holary - Cable - I Midd Holary - Coller		200			y a w y		- 1	
7. SEALING PROCEDURES		1777						
SEAL/FILTER PACK AMOUNT METHOD								
Material From To Sacks or Pounds								
Benotinte 0 18 1200 OverBore								
Cement -3 380 47sack			_					\perp
	_						\rightarrow	-
Was drive shoe used? □XY □ N Shoe Depth(s)	-	-			RECE	EIVED	\rightarrow	+
Was drive shoe seal tested?	-	-						+
8. CASING/LINER:	-				AAR O	4 1998	-	-
Diameter From To Gauge Material Casing Liner Welded Threaded 8 -3 22 250 stee1 □x □ □							-	1-1
6 +18"550 250 steel X = X =	1	E C	EH	VED -	WATER R WESTER	ESOURCES N REGION		+
4 541 551 250 steel		IAD	0.0	1000			-	
Length of Headpipe 10' Length of Tailpipe	r	IAR	ט ט	1998	7-2-			
9. PERFORATIONS/SCREENS								
□ Perforations Method	Uepan	ment of	AASTOL	Resources				
X Screen Type Johnsons	Cor	npleted	Depth	56	1	([Measura	ble)
	Dat	te: Stan	ted	12-12-9	7	Completed $1-0$	9-98	
From To Slot Size Number Diameter Material Casing Liner	-							
551 561 020 4 stain1ess 5x				CERTIFICA				
				minimum well (s removed.	constructi	on standards were co	mplied v	vith at
	nic III	me uie	ng was	y içiliyed.				
	Firm	Name_	Hic	dleston	& So	n Inc Firm	No	35
10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:			•	1		-7	1-1	50
ft. below ground Artesian pressurelb.		Official		7192		Date	2/	10
Depth flow encounteredft. Describe access port or	and			d.	0 -		12	190
control devices:	Supe	rvisor	or Oper	//	Bronette	Date_2	101	10.
				(Sign once	in Firm Offici	al & Operator)		

Blue Valley Well Do. 2

WELL DRILLER'S REPORT

Well 9

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.

1. WELL OWNER	7. W	ATER	LEVEL	misserid 1-23	5-18 -350	1
Namo Leonard Eseman	St	atic wa	ter level	450 feet below land surface	ie .	
Name	F	lawing?	□ Ye	es ENO G.P.M. flow		į
Address Bassey Ida ks				° F. Qualityp.s.i.	7.	!
Owner's Permit No.				* I I I I I I I I I I I I I I I I I I I	Plug	
2. NATURE OF WORK	8. W	ELL TI	EST DA	TA		
New well Deepened D Replacement		Pump		☐ Bailer ☐ Other	fi 	j
8	D	scharge	G,P.M.	Draw Down	Hours Pumped	
☐ Abandoned (describe method of abandoning)		_	241-11-	+ + 1		-
l			-/	NO CO		
3. PROPOSED USE	-					٦
Domestic Irrigation Test Other (specify type)		ITUOI	.ogic l	0G		
74.	Hole		pth		Vintur	_
Municipal Industrial Stock Waste Disposal or Injection		From	To	Material	Yes N	ic,
	15"		5	Broger (1	22-17	
4. METHOD DRILLED	16"		20	1-4-4		7
Cable Catory Dug Dther	1411		370	Rhaus Alvaga		
	1220	370	11/20	Brown Comenter	Ogrand 12	<
5. WELL CONSTRUCTION	/LL "	400	505	Brown Comen	Constant L	
Diameter of hole inches Total depth 505 feet		-				_
Casing schedule: Steel Concrete	1 1/ /	- D	to fi	om Leonard Eisenm	an:	
Tulabase Dismeter From To	7	he W	II N	2 has a 12 casin	g to 410;	_
0.250 inches inches + feet	the	2 90	of	a 2 has a 12 "casin 10" screen. The 12	_casing_15	-
inches inches feet feet	Sta	LIED	Inta	Approx 100' with DI	1978 = 351	
inches feet feet	31/4	16	MARI	Market IV. Comment		
inches feet feet						
Was cosing drive shoe used?						_
Perforated?	10	-	-			-
How perforated? ☐ Factory ☐ Knife ☐ Torch	-	+	-			
Size of perforation inches by Inches				ny		
Number From To			ļ			_
perforations feet feet		-	-			_
perforations feet feet	Vere	2	-			
40' of 10" perforated steel	Viza		11/2	-1 5 5051		
Well screen installed?	1_		-			_
Type Model No	-					-
Diameter Slot size Set from feet to feet	100	-		T		
DiameterSlot size Set from feet to feet						
Gravel packed? Yes No Size of gravel			 	 		-
Placed from feet to feet						
Senters seed shouth						
1 Pudding clay 11 Well cuttings	North Control of the	0.000	Section	Majorial Add (Philadella Company) is the		
Sealing procedure used Starry pit Temporary surface cosing	_	1	1			***
(Overbore to seel dags)				3	**************************************	- 2
C. LOCATION OF WELL	10.		,	12-1-11	2/17/75	
6. LOCATION OF WELL	L'	Nork st	arted (9	$\sqrt{20/74}$ finished Z	111/10	
Sketch mep location must agree with written location,			ANCHIO ATT			
	ł II.	DRILLE	RS CER	TIFICATION		
Subdivision Name Blue Variley	Į.	Firm N	ame	OS. Welldulle	Ser Firm No.	2
Mobile Home Park	1	1	~ ? ~	5 Capena Dy	O make my	
Lot No Block No	1	Address	1		. Dole	
L L L L		Signed I	by (Firm	Official)	Car to a constitue	
County Day	E 4	- 3	40	and Treiting	*****	=
SE NE 12 2N 3E	1 -		(0)	perator)	1874	5
1 N/S, R, E//	1			S 15		

CARLYLE W. BRIGGS

CONSULTING ENGINEER

CIVIL. DESIGN, APPRAISALS INVESTIGATIONS, REPORTS CONSTRUCTION, SUPERVISION

MUNICIPAL WATER SUPPLY SRRIGATION AND DRAINAGE HYDRAULIC INSTALLATIONS SEWERS AND SEWAGE

ROADS-STREETS-AIRPORTS

Frank Keller, P.E. Environmental Engineer Division of Environment 801 Reserve Street Boise, Idaho 83702

Dear Mr. Keller:

BRIGGS ENGINEER BUILDING 619 GROVE STREET TELEPHONE (208) 343-3381 BOISE, IDAHO 83702

December 15, 1978

BRIGGS and ASSOCIATES Consulting Engineers ESTABLISHED 1921

REGISTEREDI IDAHO, OREGON, WASHINGTON, UTAH, NEVADA

MINING-GEOLOGY

MECHANICAL

LAND PLANNING RESIDENTIAL SUBDIVISIONS COMMERCIAL AND INDUSTRIAL SITES

Subject: Blue Valley Mobile Home Park - Well Logs - Permit No. 63-8401 1-6-77

Enclosed herewith is a copy of the well log for Well No. 1 and Well No. 2 at the subject mobile home park. We will arrange for a chemical analysis of the water from Well No. 2 as soon as it has been started and pumped for a few days time to stabilize flows and strata feed characteristics. Well No. 2 will not be connected into the mobile home park water system until chemical and bacteriological analysis has been satisfactorily completed.

The well log for Well No. 1 does not indicate how the well casing was sealed. Leonard Eisenman, who was present at the time the well was drilled, says that the casing was mudded into place with drillers mud, and then concrete was poured from the top of the carefully cleaned rock formation up to the ground surface pump platform, a height of approximately 2.5 feet.

The meter accompanying the log for Well No. 2 were made by Leonard Eisenman to provide information in addition to that listed in the well log. The casing for Well No. 2 was also sealed into place with drillers mud, and concrete will be poured from the top of the rock formation up into the well house floor, when the pump housing is constructed, as shown on our construction Dwg. No. CWB-780515.

Very truly yours,

Consulting Engineer cc: Chriswell & Freedman Leonard Eisenman

Idaho Dept. of Water Resources

Well Log Form 1 314

Department of Reclamation

Well

1 N

WELL LOG AND REPORT TO THE STATE RECLAMATION ENGINEER OF IDAHO 098979

SUBMIT WITHIN 30 DAYS AFTER COMPLETION OF WELL: SEE IDAHO STATUTES 42-238 Well No. County Ada ... Locate well in section Leonard Eisenman Address 1104 North 18th street, Boise, Idaho Orval Harden, Route 1, Boise, Idaho Sec. Address_ Well location SE 1/4 NE 1/4 Sec 12 Size of drilled hole.... ...Total depth of well_5031 Give depth to standing water from the ground 3301 Water temp. Test delivery was___ e.f.s. Drawdown was _____feet. Pump? ____ Beil? Yes Size of pump and motor used to make test. Bailer tested only, could not draw down with bailer Length of time of test_____hours___ If flowing well, described control works____ (TYPE AND SIZE OF VALVE, ETC.) Water will be used for domestic Weight of casing per lineal foot Thickness of casing • 219 ___Casing material _____ steel (STEEL, CONCRETE, WOOD, ETC.) Diameter, length and location of casing 8" from ground level to 5021 3" (CASING 12" IN DIAMETER ON LESS, GIVE INSIDE DIAMETER; CASING OVER 12" IN DIAMETER, GIVE OUTSIDE DIAMETER) ... « CASING RECORD Diami. From To Length Romarks-seals, grouting, etc. Casing Feet 0 50213# 50213 8 cuts per round, one round per foot, 3/16*x3**
her and size of performions located 4.17 Number and size of perforations. _feet to_496 ____feet from ground Date of commencement of well March 7, 1965 Date of completion of well May 16, 1965

SENE S. 12 2N 2E

usell

WELL LOG

From Feet	Te Feet	Type of Material	Water-hearing Formation . Ann Tex or No	Carting Perforanted Ann. Yes or No.
01.	611	Reaming prior hole - mostly rock	20	
611	1651	Rock	no	
1658	195	Rock with streaks of clay	-BO	
195	283	Sand and grevel	по	no
283	370	Sand and gravel	no	no
370	380	Cemented gravel	no	no
380	410	Sandy clay	no	no
410	415	Gravel	show	no
415	503	Sand, gravel, streaks of clay	yes_	y e:
	a:			
		If more space is required use Sheet No. 2	1-1	-

WELL DRILLER'S STATEMENT

7/2 m/4

77	
This well was drilled under my supervisi	ion and the above information is complete, true and correct to the best of
my knowledge and bellef.	*
	Signed Orel Harden
# ¹	By Orval Harden
oted June 7 19 65.	License No3
g .	Wath Dedament - Tra

LOOK GUATUA



control devices:

Date

(Sign once if Firm Official & Operator)

IDAHO DEPARTMENT OF WATER RESOURCES

USE TYPEWING
DEPARTMENT OF WATER RESOURCES

DEPARTMENT O WELL DRILLER'S REPORT 4932 Full 1 8 1995UG 3 1 1995

vvell 11			
 PORTOR DESCRIPTION OF	200		•

1. DRILLING PERMIT NO. 63 - 95 - C - 0179 - 000 Other IDWR No. 63 - 09357	11.` -	WELL Pipp	. TES	TS: Оகுறிரு: □ Bailer □ A	ir Department of	Water Re	30urces
2. OWNER:		Yield gal./	min.	Drawdown	Pumping Level	Tim	10
2. OWNER: MICRON TECHNOLOGY, INC.	_	00			538	24 h	ro
Address 2805 E. CCLUMBIA ROAD	کتا .	0.00			542	2 h	rs
City EOISE State ID Zip 33706	. L		···	J			
2 LOCATION OF WELL by land described					om hole temp		
3. LOCATION OF WELL by legal description:	Wate	r Quali	ty test o	or comments:	-,		
Sketch map location must agree with written location.	10					_	
N T	-	LITH	JLUG	IC LOG: (Describe	repairs or abandon	ment)	Water
Twp. 2 North 🖫 or South 🗅	Bore Dia.	From	Τo	Remarks: Lithology,	Water Quality & Tempe	rature	Y N
Rge. <u>3</u> East ᠒ or West □	28	Č	5	top soil			
Sec. 7 , NF 1/4 SW 1/4 1/4	4 28	5	12	sand & gra	vel w/layer	rs l	
Gov't Lot County ADA 40 acres 160 acres				clay			
	24	12	15	fractured	lava		
Address of Well SiteFEDERAL_WAY	24	1.5		gray lava	-		
City EOISE, ID	24	52	61	cray cinde	rs		
(Give at least name of road + Distance to Road or Landmark)	24	51	69	cray lava			
LtBlkSub. Name	24	69	72	gray dinde	rs		
	24	72	_	cray lava	2011X - 1173		
4. PROPOSED USE:	24	. 7	85	broken cra	y lava and		
☐ Domestic ☐ Municipal ☐ Monitor ☐ Irrigation				cindar			
☐ Thermal ☐ Injection ☐ Other INDUSTRIAL	24	23	172	gray lava	- hard		
5. TYPE OF WORK	24	172	174	broken lav	a & cinders		
New Well 🗆 Modify or Repair 💥 Replacement 🗀 Abandonmen		174	160	larce gray	el & boulds	ers	
6. DRILL METHOD	20	180		sand trave	1 & larca		
प्रू Mud Rotary प्रू Air Rotary □ Cable □ Other			204	boulder			
	20	264	225	demented s	and & orave	21	
7. SEALING PROCEDURES	20	225	275	brown sand	y clav		
SEAL/FILTER PACK AMOUNT METHOD	20	275	282	krown coar	se sand and		
Material From To Sacks or Pounds			282	cravel			
cement crout 0 172 240 cverbore	20	282	300	receish br	cwn coarse		
cement grout 0 595 484 cvercore				sand & gra	vel w/cray		
8-12 colorade 555 1080 405 sacks	l		300	clay			
Was drive shoe used? ☐ Y ☑ N Shoe Depth(s)	20	300	310	Iray sand	w/traces of		
Was drive shoe seal tested? Y □ N ☑ How?	-			clay			_
8. CASING/LINER:	20	310	320	brown coar	se sand and		
Diameter From To Gauge Material Casing Liner Welded Threaded			230	cravel_			
20" 0 172 .250 steel or c ox c	20	320	330	heavy coar	se brown		
1 1 0 000 00 00 00 00 00 00 00 00 00 00	_		33C	cravel			_
SER ATTACHED SHEET O O O	20	-	340	ccarse gra	vel & bould	ers	
Length of HeadpipeLength of Tailpipe	20	340	350	cementeć c	ozrse grave	1	
9. PERFORATIONS/SCREENS	20	350	358	coarse san			
☐ Perforations Method	<u> </u>	L.,.,		PAGE 1 OF	<u> </u>	-	
Screen Type Stainless Steel V-Vi			Depth		- 10 Comp.	_(Measu	rable)
From T. District Day 19	Dat	e: Start	ted	4/28/95	Completed_6/3	0/95	
From To Slot Size Number Diameter Material Casing Liner						7.75)
SEE ATTACHED SHEET				CERTIFICATIO		a an 10	1.5
	I/We	certify t	nat all i	minimum well constru removed.	ction standards were	complied	I with at
	uie ui		ny was	I GITTOY GU,	o ₽ //	×9 5	
	Firm I	Name	HIDT	LESTON & S	ON, INC. F	rm No.	35
10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:			V.S.	1-		555 32	
455 ft. below ground Artesian pressurelb.	Firm	Official_	n	and Hudil	Date Date	8/1	7/97
Depth flow encounteredft. Describe access port or	and	uo uudivaside	1		(*8315)	,	

Supervisor or Operator_

Form 238-7 , 7/94

IDAHO DEPARTMENT OF WATER RESOURCES

3	ED or Ball Point Pon		
į,	1	or	
- 1	Ra	I Doint Don	

				the state of the s
VFII	DRILLER'S	REPORT		Ball Point
	DITTELLI	TIE! OIL!	ACCOMMO 1 C	
			4020MG 18	เานน๖

1. DRILLING	ଲିଖିଲ PERMIT NO. 63 - 95-୯- 0179 - ୧୧ ୭		WELL	L TES	Te. Dopa:	MEC.E.	IVI	E D
Other IDWR No	63-09357			ump	□ Bailer □ Air	ALIA A		
2. OWNER:	7,77,57		Yleid gal.	26/20/02/	Drawdown	Pumping Level	Time	
Name M	ICRON TECHNOLOGY, INC.					Department of Wa		source
	5 E. COLUMBIA ROAD							
	State_ID_Zip_63706							
		Wate	er Temi	D.	Botto	m hole temp		
3. LOCATION	OF WELL by legal description:				or comments:			_
Sketch map locati	on must agree with written location.							
N	<u>*</u>	12.	LITH	OLOG	ilC LOG: (Describe	repairs or abandonme	nt) y	Vater
	N. H. C	Bore	From	To	Remarke: Lithology V	Vater Quality & Temperatu		\neg
	Twp North or South	Dia. 20					-	+"
	ERge East □ or West □		1330		coarse sand	L & Cravel	-	+
	Sec	20	370		readish pro	DEED GODINGS	_	+-
	Journy	20	1 3 / 1	410	cravel	JWI CORTSE	+	1
s	Address of Well Site	20	410		brown coar	se cravel	+	+-
	City	-		420	w/clay laye	er		
(Give at least name of	road + Distance to Road or Landmark)	20	420	461	cement coal			
Lt BI	KSub. Name				& cobbles			1
		20	461	462	.5 brown cla	5. T	\top	1
4. PROPOSEI	USE:	20	462	.5	brown coars	se gravel		
□ Domestic	☐ Municipal ☐ Monitor ☐ Irrigation			465		& traces of	2000	
☐ Thermal	☐ Injection ☐ Other			465		- Alii	X	\perp
5. TYPE OF W		20	465	470	coarse sand	i & small		
	☐ Modify or Repair ☐ Replacement ☐ Abandonmer	t		470	<u>cravel</u>		X	
6. DRILL MET		20		472	brown clay			1_
Mud Rotar	✓ ☐ Air Rotary ☐ Cable ☐ Other	20	472	475	brown clay	w/sand layer	2	
7 SEALING D	ROCEDURES	20			brown clay			4
	TER PACK AMOUNT METHOD	20	4/6	404	coarse brow	on sane and		
Material	From To Sacks or	20	181		coarse grav	roll S. gana	X	-
7/17/2011/	Pounds	1 20	20-	222	v/cobbles	Ver & Sard	 	+
		20	533	530	coarse crav	tal f sard	-	+
141		120		533	W/dobbles	rusty clay	×	+
Vas drive shoe us	ed? Y N Shoe Depth(s)	20	539	541	gravel & sa	end w/white	Tx	+
Vas drive shoe se	al tested? Y \(\subseteq \) How?			541	sandy clay	TIC WY WILL OC	1^	
B. CASING/LIN	IER:	20	541	548	brown clay	W/some grave	1	
Diameter From	To Gauge Material Casing Liner Welded Threaded	20	548	550	sand & grav	/el	Х	
		20	550	626	coarse brow	m sand and		
				626	cravel w/la	eyers of clay	6	
		20	626		brown grave	i w/clay		
	eLength of Tailpipe	-		664	la7ers		X	-
	IONS/SCREENS		_		77.00			_
□ Perforations	Method			- 5,	PAGE 2 OF 5			
☐ Screens	Screen Type			Depth,		(M	easura	ble)
From To	Slot Size Number Diameter Material Casing Liner	Dat	e: Star	ted	9/28/95 <u>:</u>	_ Completed_ 6/30/	95	
. 10/11	Guard Child	40	י יים	EDIA	OFFICIOATION	The state of the s		-
					CERTIFICATION		1	
		the ti	ne the	rig was	removed.	tion standards were com	thirea A	vitri ai
- id-				•		· / 4 / 395		
O CTATIO W	ATER LEVEL OR ARTERIAL TOPACTOR	Firm	Name_	HIDI	DLESTON & SO	N, INC. Firm	10. <u>3</u>	5
	ATER LEVEL OR ARTESIAN PRESSURE:			n	1/00/1	1116 .	1.	/.
ft_below	· · · · · · · · · · · · · · · · · · ·		Official	11	mende	Date 8/	11/	21
ontrol devices	interedft. Describe access port or	and		_ ′′		The Market	× ^	
GOVICES		Supe	rvisor o	r Opera		Date		
					(Sign once if Firm Off	icial & Operator)		

Form	238-7
7/94	
41	

IDAHO DEPARTMENT OF WATER RESOURCES

WELL DRILLER'S REPORT 49328

Use Typewriter or Ball Point Pen

200 1. DRILLING PERMIT NO. 63 - 95-C - 0179 - 066	11. \	NELL	TES	TS: AUG 1 8 1995		
Other IDWR No. 63-09357			ımp	□ Bail hepatria⊡ Air: ம் Flowing Artesian		
OWNER:	Y	'ield gal./	nin.	Drawdown Pumping Level T	lme	_
Name MICRON TECHNOLOGY, INC.			(MAINESEE			
Address 2005 & COLUMBIA ROAD	1,000,000					
Dity BOISE State ID Zip 83706						
	Wate	r Temp		Bottom hole temp.		
B. LOCATION OF WELL by legal description:				or comments:	5563	
ketch map location must agree with written location.						
N	12. I	LITHO	LOG	IC LOG: (Describe repairs or abandonment)	Wi	ater
	Bore	From	То	Remarks: Lithology, Water Quality & Temperature	V	TN
Twp North O or South C	Dia.				Ľ.	+™
Rge. East Or West O	20	004	660	coarse brown gravel	ļ.,	₽
Sec 1/4 1/4 1/4 1/4 Gov't Lot County 40 acres 160 acres	20	0.50		w/clay	X	╀
Gov't Lot County				coarse brown gravel brown clay w/trace of	4.	╄
S	20			cravel	-	+
Address of Well Site	20			coarse brown gravel-		╁
(Give at least name of road + Distance to Road or Landmark)	20	1 + 0		cirty	X	t
BlkSub. Name	20	720		coarse brown gravel	X	+-
L. OUU. Name		756	761	brown clay w/sand and	├	+
PROPOSED HOE		100	761	cravel	\vdash	+
. PROPOSED USE: □ Domestic □ Municipal □ Monitor □ Irrigation	20	761		frown sand & small	_	†
□ Domestic □ Municipal □ Monitor □ Irrigation □ Thermal □ Injection □ Other	20	/ 5 4		gravel w/streaks of clay	Х	†
TYPE OF WORK	20	768		brown sand & cravel	Х	t
☐ New Well ☐ Modify or Repair ☐ Replacement ☐ Abandonment	20			brown sand & smaller	**	T
. DRILL METHOD			784	cravel w/traces of clay	Х	1
☐ Mud Rotary ☐ Air Rotary ☐ Cable ☐ Other	20	784	795	tan-krown sandy clay		
	20	795	811	brown sand & gravel	Y	
. SEALING PROCEDURES				w/thin layers of clay		1
SEAL/FILTER PACK AMOUNT METHOD	20	811	820	krewn sandy clay		
Material From To Sacks or Pounds	20			coarse cravel	X	
	20	823	828	brown sandy clay	200000	
	20	828	842	coarse cravel & sand	X	
	20	842	356	sandy brown clay		
as drive shoe used? Yes N Shoe Depth(s)	20	856	860	ccarse trown sand	X	1_
/as drive shoe seal tested? Y N N How?	20			brown sand & gravel	_	1
. CASING/LINER:				w/traces of clay -		╀
Diameter From To Gauge Material Casing Liner Welded Threaded			891	houlders @ 877-888	X	╄
				sandy brown clay	-	╀
	20	892		sand & gravel w/layers		₽
				of clay	X	⊢
ength of HeadpipeLength of Tailpipe	20	896		sand & gravel w/more	_	╀
PERFORATIONS/SCREENS			୨୨୨		X	╀
□ Perforations Method	-			PAGE 3 OF 5		_
□ Screens Screen Type	Con	npleted	Depth			ole)
From To Slot Size Number Dlameter Material Casing Liner	13. I	certify ne the	ER'S	COMPleted 6/30/9 CERTIFICATION minimum well construction standards were completed from the construction standards were completed. DIESTON SON INC. Firm No.	ied w	ith
ft. below ground Artesian pressurelb. epth flow encounteredft. Describe access port or	and	Official	' /	Date 8)	12/3	W.
ontrol devices:	Super	ıvısor (r Oper	(Sign once if Firm Official & Operator)		

Form 238-7 3/95 °

IDAHO DEPARTMENT OF WATER RESOURCES

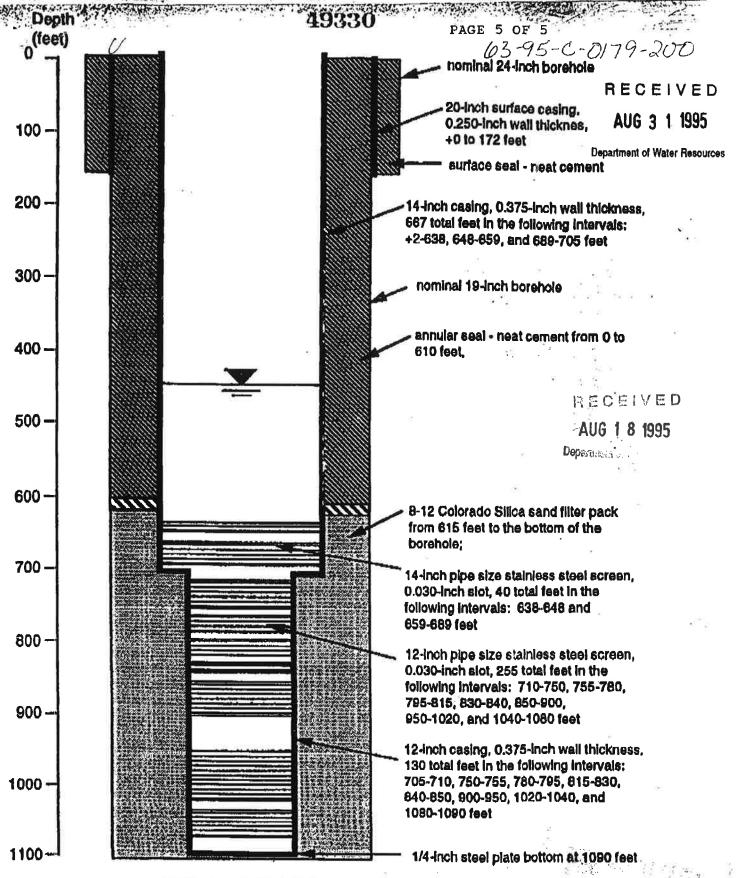
WELL DRILLER'S REPORT

Use Typewriter or Ballpoint Pen

49329

Insped		Use C	nly	
Twp_	-		Sec_	
-	/4	1/4	1/4	
Lat:		Long:		2

200	1/41/4	-
1. DRILLING PERMIT NO. 63 - 95 - C - 0179 -000	11. WELL TESTS: Lat: : Long: : :	
Other IDWR No. 63-09357	. □ Pump □ Bailer □ Air □ Flowing Artesian	
2. OWNER:	Yield gal./min. Drawdown Pumping Level Time	e
Name MICRON TECHNOLOGY, INC.		
Address 2805 E. COLUMBIA ROAD		
City BOISE State ID Zip 83706	Wester Tomo	
3. LOCATION OF WELL by legal description:	Water Temp Bottom hole temp Bottom hole temp	
Sketch map location <u>must</u> agree with written location.	Depth first Water Encountered	
N	12 LITHOLOGIC LOG: (Describe require or abandonment)	191.00.
	Rora	Water
Twp North □ or South □	577	YN
Rge. East or West	20 899907 sand & grave1	Х
Sec	20 907925 brown sandy clay 20 925927 brown sand	
Lat: : Long: :	20 927965 brown sandy clay	_
5	20 965985 brown dirty sand and	-
Address of Well Site		x
Give at least name of road + Distance to Road or Landmar⊀)		$\frac{\Lambda}{X}$
Lt BlkSub. Name	20 9951025 brown coarse sand and	***
DIN. OUD. NAME		x
4. USE:	20 1025-1055 coarse sandy clay and	
□ Domestic □ Municipal □ Monitor □ Irrigation		х
☐ Thermal ☐ Injection ☐ Other	20 1055-1076 coarse clean sand and	
5. TYPE OF WORK check all that apply (Replacement etc.)		х
□ New Well □ Modify □ Abandonment □ Other □	20 1076-1 01 coarse sandy clay and	
6. DRILL METHOD		х
☐ Air Rotary ☐ Cable ☐ Mud Rotary ☐ Other	RECEIVED	5080,000
7. SEALING PROCEDURES	AUG 3 1 1995	
SEAL/FILTER PACK AMOUNT METHOD Material From To Sacks or	M00 2 1 1000	-
Pounds	Department of Water Resources ED	-
	Tobacturan A. L. C. C. F. L. A. F. D.	
	AUG 1 8 1995	+
Was drive shoe used? □ Y □ N Shoe Depth(s)		+
Was drive shoe seal tested? □Y □N How?	Department of Vision	-
8. CASING/LINER:		\dashv
Diameter From To Gauge Material Casing Liner Welded Threaded		\neg
Length of HeadpipeLength of Tailpipe		0.5.070
9. PERFORATIONS/SCREENS		
Perforations Method	PAGE 4 OF 5	
□ Screens Screen Type	Completed Depth 1090' (Measur	rable)
	Date: Started 4/28/95 Completed 6/30/95	<u>h </u>
From To Slot Size Number Diameter Material Casing Liner		
	13. DRILLER'S CERTIFICATION	
	I/We certify that all minimum well construction standards were complied the time the rig was removed.	ı with at
46.054516.144554	Firm Name HIDDLESTON & SON, INC. Firm No	35
10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:	m 100/1/1	
ft. below ground Artesian pressurelb.	Firm Official // Date 8/17	125
Depth flow encounteredft. Describe access port or	and	
control devices:	Supervisor or Operator Date	
	(Sign once if Firm Official & Operator)	



MICRON WELL NO. 4 - FINAL WELL DESIGN

	14. 100. 100. 100. 100. 100. 100. 100. 10
	1063
Form 238-7	ER RESOUPPESEIVED Office Use Only
WELL DRILLER'S F	
Well 12 Use Typewriter or Ballpoi	int Pen APR 0 7 1998/p RgeSec
1. DRILLING PERMIT NO. 63 - 97-C -0652 -000	061037 WATER RESOURCES -1/4 1/4 1/4
Other IDWB_No ₂₃ _D0000182	11. WELL TEST SETERN REGION: : Long: : :
Other IDWR No. D0000182 Document WR 63-09357 Name Micon Technology	Yield gal./min. Drawdown PumpIng Level Yime
Name Micon Technology	1500 525 1hr
Address 8000 South Federal Way	2500 553 3hrs
State Id zip83907-006	1800 543 24hrs
B. LOCATION OF WELL by legal description:	Water Temp Bottom hole temp
sketch map location must agree with written location.	Water Quality test or comments:
N	12. LITHOLOGIC LOG: (Describe repairs or abandonment)
	Ta Water
Twp. 2 North X or South A Rge. 3 East X or West	Dia From To Remarks: Lithology, Water Quality & Temperature DY N 24" 0 5' Top Soil RECEIVED
The 7 City was NO	5' 21' Grey lava
Sec. 7 SW 1/4 NE 1/4 1/4 1/4 Gov't Lot County Ada 40 acres 160 acres	21 24' Cinders APR 0 9 1998
Lat: : Long; : :	24' 52' Grey 1ava
Address of Well Site 8000 S federal	52' 64 Cinders Department of Water Resources
Way We11 #5 City Boise	64 78 Grey lava Hard
	78 82 Cinders
BlkSub. Name	32' 101 grey lava Hard
. USE:	106 118 Grey lava Hard
☐ Domestic ☐ Municipal ☐ Monitor ☐ Irrigation	118 125 Cinders
□ Thermal □ Injection 卷 Other Industria1	125 152 Grey lava Hard
. TYPE OF WORK check all that apply (Replacement etc.)	152 168 Cemented sand , grave1
New Well □ Modify □ Abandonment □ Other □	168 174 Sand & gravel coarse
DRILL METHOD	174 194 Sand & gravel some bolders
X Air Rotary ☐ Cable X☐ Mud Rotary ☐ Other	194 197 Sand coarse 197 210 Coarse sand & grave1
SEALING PROCEDURES	210 220 Brown coarse sand, gravel
SEAL/FILTER PACK AMOUNT METHOD	220 240 Brown coarse sand, gravel
Material From To Sacks or Pounds	240 260 Brown coarse gravel
Cement Grout 0 510 576 Cementing sho	
	270 Sand coarse, gravel some sandy
	339Brown clay some cobbles 339 348Brown sand dry sticky
as drive shoe used? □ Y □ XN Shoe Depth(s)as drive shoe seal tested? □ Y x□N How?	350 357Sand coarse grave1
CASING/LINER:	397 414Brown sandy clay
inmeter From To Gauge Material Casing Liner Welded Threaded	414 Sand & gravel some cobbles
20" 3 610 375 Steel 🗀 🙃 🗆	460Some clay
	460 Sand & gravel cobbles
	575 W/some tan clay 575 580Sand & small gravel (brown)
ength of Headpipe 35' Length of Tailpipe 14' PERFORATIONS/SCREENS	580 590Sand & gravel clay
Perforations Method	590 600 Brown clay & grave1
Screens Screen Type Johnson	Completed Depth 1217 (Measurable)
	Date: StartedCompleted
From To Slot Size Number Diameter Material Casing Liner	
*	13. DRILLER'S CERTIFICATION I/We certify that all minimum well construction standards were complied with at
	the time the rig was removed.
0. STATIC WATER LEVEL OR ARTESIAN PRESSURE:	Firm Name Hiddleston & Son Inc. Firm No. 35
485 ft, below ground Artesian pressurelb.	Firm Official Man 8 Salah Date 4/6/92
epth flow encounteredft. Describe access port or	and
ontrol devices:	Supervisor or OperatorDate
	(Sign once if Firm Official & Operator)

Form	238-7
3/95	4

City_Boise

4 USE:

State ID Zip 83907-006

☐ Irrigation

				(15E)	20	¥3
Form 238-7	IDAHO DEPARTMENT OF V	VATER RESOUR	CES	0	ffice Use C)mlv
-0/94	WELL DRILLER'	S REPORT	RECE	Visce cte	d by	лпу
	Use Typewriter or B	061038 11. WELL TEST	R2	Twp	_ Rge	_Sec
4. DOUL INC DED	MITNO 63 07 G 0652 000	OCTOO	APR n	7 -1998 /4-	1/4	1/4
Other IDWR No. D00	MIT NO. 63 - 97 -C - 0652 - 000		S AWANTER RE	Lat: :	: Long:	
1.1	D 1-2 000 VA	Yield gal/min	WESTERN	DECION	Flowing A	ETY
2. OWNER: Name Micron T						0 0 40
Address 8000 So	uth Federal Way				APF	0 9 19

Water Quality test or comments:

Water Temp.

3	LOCATION	OF WELL	hy legal	description:
J.	LOCATION	OL MELL	DV IEUai	uescription.

Sketch map	location.	must	agree	with	written	location.

Sec. 7 SW 1/4 Gov't Lot County Ada 40 Lat: : Long: Address of Well Site 8000 S Way Well #5 City Bo (Give at least came of road - Distance to Food or Lundmark)	Federal
Gov't Lot County Ada 40 Lat: : Long: Address of Well Site 8000 S	Federal
Gov't Lot County Ada 40	NE 1/4
Sec. 7 , SW 1/4	NE 1/4 _ 160 agres
Sec 7 SW1/4	NE_1/4
Rge. 3 East 🕱 o	r West []
Twp. 2 North 🕱 o	r South 🗆

Domestic	☐ Municipal	☐ Monitor
-11 Tt	C to the estimate	- OIL 12 TO

inermai	Injection	ther_	Industrial	
E OF	NORK check all	that apply	(Replacement	etc.)

5. TYPE OF W	ORK check	all that apply	(Replacement e	to
☐ New Well	Modify	Abandonment	Other	
6. DRILL METI	HOD			
Air Rotary	☐ Cable	Mud Rotary	Other	

7. SEALING PROCEDURES

SEAL/FILTER PACK		AMOUNT	METHOD	
Material	From	То	Sacks or Pounds	
	-	-		
	_			

Was drive shoe used? □ Y Ĺ N Shoe Depth(s) Was drive shoe seal tested? □Y □N How?___

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
								1
	FORAT		/SCRE	_ Length o ENS	f Tailpipe	(2.1, 5	*	0. 25. (26.5)
_ Perfo	rations	M	lethod					
Scree	пs	S	creen Typ	е		$V \leq 3$	045 J	-

From	То	Slot Size	Number	Diameter	Material	Casing	Liner
							L
						ш	

10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

ft. below ground	Artesian press	urelb.
Depth flow encountered _	ft.	Describe access port or
control devices:		

				Depti	h first	Water	Encou	ntered
10	LITUAL	ACIC I	00.					

Department of Water Resources

Bore			IC LOG: (Describe repairs or abandonment)		
Dia.	From	To	Remarks: Lithology, Water Quality & Temperature	Υ	N
	600	615	Gray clay , gravel		
24	612	620	Tan gravel & clay		
24 I	620	1630	Tan gravel & clay		
20	630	700	Brown coarse gravel, san	dx	
	700	1708	Trace of clay		
	708	711	Tan sandy clay		
	711	718	Tan gravel coarse sand	Х	
_	718	724	Sandy tan clay w/layers	gra	V
1	724	728	Sandy, gravel w/some clay	X	
	728	735	Sand coarse	X	
	735	747	Sand & grave1	X	
	147	758	Sand gravel & cobbles	x	
	758	769	Tan clay		
	769	790	Sand & gravel w/some cla	yх	
			Sand coarse	X	
	794	804	Sandy clay w/some gravel		
	804	836	Coarse gravel & sand	X	
	836	845	Sandy clay & gravel	х	
	845	860	Gravel & sand w/some cla	ýх	
	860	910	Coarse gravel & sand	x	
	910	950	Coarse gravel & sand	х	
			Trace of clay		
	950	955	Coarse gravel & sand	х	_
		1	Trace of clay		
	955	970	Clay & sand & gravel	X	
	970	101	Clay & sand & gravel 9 Coarse sand ,grave trac	e d	18
	.019	103	Grav clav, silty sand	X	
	.032	105	I Gravel clay & silty san	dx	
	.051	106	5 Coarse sand & gravel	x	
	.066	107	O Clay tan		
	.070	107	8 Gravel	X	
			Brown clay sandy		
			5.5 Sand & gravel too	х	
Con			(Mea:	surab	le)
		ted			,

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	δ	Son	Inc.	_Firm No	35
Firm Official_	Marke	8	Lu	Monte	4/4/	18
and		,				
Cuparvisor	Operator			Date		

(Sign once if Firm Official & Operator)

Office Use Only

inspected by _

Form 238-7 3/95

IDAHO DEPARTMENT OF WATER RESOURCES

WELL DRILLER'S REPORT

Use Typewriter or Ballpoi	nt Pen 061039 Twp Rge Sec
1. DRILLING PERMIT NO. 63-97 - C- 0652 - 000 Other IDWR No. D0000182 2. OWNER: WR 63-09357	11. WELL TESTS: Lat: : Long: : :
WR 63-09357	☐ Pump ☐ Baller ☐ Air ☐ Flowing Artesian Yield gal/min. □ Drawdown □ Pumping Level ☐ Time
2. OWNER: Name Micron Technology	Tido gastini.
Address 8000 South Federal Way	
City Boise State IDzip 83907-006	
	Water Temp. Bottom hole temp.
3. LOCATION OF WELL by legal description:	Water Quality test or comments:
Sketch map location <u>must</u> agree with written location.	Depth first Water Encountered
N === 0	12. LITHOLOGIC LOG: (Describe repairs or abandonment) Water
Twp. 2 North ₺ or South □	Bore Dia, From To Remarks: Lithology, Water Quality & Temperature Y N
	1086.5 1095 Brown clay
Sec. 7 , SW 1/4 NE 1/4 1/4 1/4 Gov't Lot County Ada 40 acres 160 acres	0951103 Sand & gravel x 11031110 Tan clay 11101112 Gravel & sand x
	11031110 Tan clay
Lat: : Long: : :	Illuliliz Gravel & sand X
Address of Well Site 8000 S Federal Way	11121132 Clay W/sand & gravel x
Well #5 (Give at loast name of road + Discence to Road or Landmork) City Boise	146 1470 0.177
	11721186 Tan clay
LtBlkSub. Name	11861194 Gravel W/ sand x
4 (10)	11941195 Tan clay
4. USE: ☐ Domestic ☐ Municipal ☐ Monitor ☐ Irrigation	11951203 grave1 x
□ Domestic □ Municipal □ Monitor □ Irrigation □ Thermal □ Injection ※ Other <u>Industrial</u>	12031209 Grey-white clay
	12091216 Grey-white clay soft
5. TYPE OF WORK check all that apply (Replacement etc.) X New Well Modify Abandonment Other	12161218.5 Basalt
6. DRILL METHOD	
☐ Air Rotary ☐ Cable ☐ Mud Rotary ☐ Other	
7. SEALING PROCEDURES	16-inch casing and screen
SEAUFILTER PACK AMOUNT METHOD Moterial From To Sacks or	assbley all stainless steel
Material From To Sacks or Pounds	
Was drive shoe used? □ Y □ N Shoe Depth(s)	RECEIVED
8. CASING/LINER:	The contract of the contract o
Diameter From To Gauge Material Casing Liner Welded Threaded	RECEIVED APR 0 7 1998
	WATER RESOURCES WESTERN REGION
	APR 0 9 1998 WESTERN REGION
Length of Headpipe Length of Tailpipe	Department of Water Resources
9. PERFORATIONS/SCREENS References Method	Sobalinois Marie Leaboricas
L. Periorations interior	1210 5
Screen Type	Completed Depth 1218.5 (Measurable) Date: Started 11-1-97 Completed 3-2-98
From To Slot Size Number Diameter Material Casing Lines	10 POUL TOIS SEPTIMISATION
	13. DRILLER'S CERTIFICATION
	I/We certify that all minimum well construction standards were complied with at the time the rig was removed.
	9
	Firm Name Hiddleston Son Inc. Firm No. 35
10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:	11/8V/ 1 4 4/1/2
ft, below ground Artesian pressurelb.	Firm Official Date 4/6/19
Depth flow encounteredft. Describe access port or	and Supervisor or Operator Date
control devices:	Supervisor or OperatorDate

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

- Himah	screen	Mark I	blank ca	asing
interval	length	slot size	interval	length
			600-630	30
₋ 630-660	30	70		
			660-675	15
675-705	30	70		
745 750	0.5	70	705-715	10
_ 715-750	35	70	750 000	ΕO
809-834	25	70	750-809	59
1 009-034	23	70	834-859	25
859-879	20	70	004-039	23
0,0		. •	879-895	16
895-905	10	70		
			905-917	12
917-947	30	70		
			947-962	15
962-977	15	70		
			977-995	18
995-1015	20	70		
			1015-1046	31
1046-1056	10	70	4050 4004	0.5
1091-1101	10	70	1056-1091	35
1097-1101	751	70	1101-1110	9
1110-1170	60	70	1101-1110	Э
1110 1110	00	, 0	1170-1183	13
1183-1203	20	70		-
			1203-1210	7
Total	315			295

RECEIVED RECEIVED

APR 0 7 1998 APR 0 9 1998

WATER RESOURCES
WESTERN REGION Department of Water Resources

Well 14

REPORT OF WELL DRILLER State of Idaho

Just 16 7 1

State law requires that this report shall be filed with the State Reclamation Engineer within 30 days after completion or abandonment of the well.

Name William Nut	dept.	h of	irilled hole: 12/4 Total well: 450 Standing wat	er
Address OLD HT HOME HY WAY	lleve	l bel	low ground: Temp.	
	or		° Test delivery: cfs Pump? Bail	
Owner's Permit No	Size	of]	pump and motor used to make t	est:
NATURE OF WORK (check): Replacement well	10	M		
New well Deepened Abandoned	Leng	th of	f time of test: Hrs./	Min.
Water is to be used for: DEMESTE	Draw	down	ft. Artesian pressure:	It.
METHOD OF CONSTRUCTION: Rotary Cable	abov	e Tai	nd surface Give flow pm. Shutoff pressure:	CIB
Dug Other	CL	77.	3 has 17-3 0 D2	
(explain)	No c	ontro	of Does well leak around No MATERIAL Y	casing?
(explain) CASING SCHEDULE: Threaded Welded	Yes		No 042885	
ft. toft.	D.	EPTH	MATERIAL	WATER
"Diam. from ft. to ft.	FROM	TO	Y Y	ES OR NO
"Diam. from ft. to ft. Thickness of casing: Material:			TOP SOIL SOME SINT	10
Thickness of casing: Material:	1	101	LANG MOCH	-
michigan material.	101	750	SNO CONE	10
Steel concrete wood other	200	390	fort south	15
	373	Line	ALTI SHO	
(explain) PERFORATED? Yes No Type of				
PERFURATED? Yes No Type of				_
perforator used: 1/2 52055				
Size of perforations: "by "perforations from ft. to ft. perforations from ft. to ft. WAS SCREEN INSTALLED? Yes No Manufacturer's name Note Type Note Note No. Diam. Slot size Set from ft. to ft Diam. Slot size Set from ft. to ft.				
perforations from ft. to ft.			**************************************	
perforations from ft. to ft.				
perforations fromft. toft.				
perforations from ft. to ft.		-		
Manufacturer's name Work				
Type 10 Model No.	_	-		+
Diam. Slot size Set from ft. to ft				
Diam. Slot size Set from ft. to ft	-			
CONSTRUCTION: Well gravel packed? Yes				
No. size of gravel //y Gravel placed from ft. to for ft. Surface seal				
placed from 25 ft. to 400 ft. Surface seal				
provided? Yes No To what depth?				
If ft. Material used in seal: BIRMINI				
Did any strata contain unusable water? Yes				
No. Type of water: Depth of strataft. Method of sealin				
Depth of strataft. Method of sealin	4	-		
strata off:				
Surface casing used? Yes No.				
Cemented in place? Yes No		-		
Locate well in section				
				1
<u> </u>	Want	-		
			ted:	
			ller's Statement: This well w	8.6
Sec.			under my supervision and this	
9			o the best of my knowledge.	
	Name	SA	fures un son USC	; <u>s</u> _
	Addr	55:2	BT 3 DOISE	
			Two Solls	
LOCATION OF WELL: County / Sa	Lice	ıse N	lo. 74 Date: / - 30	-7/
		33		5
ENDWA Sec. ZT. 2 N/A R. ZEA	1			
Fats 18 × 19 Sale Use other side for	addi	tions	al remarks	
Sul,			W	
By Claugh the	5		~	
Fats 18 × 19 Plane Use other side for Sulliver of the				
The same of the sa			2	

Form 238-7

IDAHO DEPARTMENT OF WATER RESOURCES WELL DRILLER'S REPORT

Use Typewriter or Ball Point Pen

Well 15

VELL DRILLER'S REPORT

1. DRILLING PERMIT NO. 63 -94 W 0409-661-	11. WEL I	L TES	Oでもの T S: BailerA	ir □ Flowing Arte	esian	
2. OWNER:	Yield gal.		Drawdown	Pumping Level	Time	
Name Harold Pettibone	- 2000-01/1					
Address 9145 Federal Way		****		E-OHIT S-SECRETIFICATION		
City Boise State ID Zip 83706	L					
3. LOCATION OF WELL by legal description: Sketch map location must agree with written location.				om hole temp		
N	12. LITH	OLOG	IC LOG: (Describe	repairs or abandonn	nent) y	Nater
Twp. 2 North XX or South □	Bore Dia. From	То	Remarks: Lithology,	Water Quality & Tempera		
Rge3	6 450	515	cemented ca	nd & gravel	X	+
Address of Well Site 9145 Federal Way		549	-cemented sa	nd & gravel		X
(Give at least name of road + Distance to Road or Landmark)					- -	1
Lt. 15 Blk. Sub. Name Harlan Sub			R	ECEIVED		#
4. PROPOSED USE: XX Domestic				APR 1 4 1997		‡
☐ Thermal ☐ Injection ☐ Other			Depar	tment of Water Resource	96	
5. TYPE OF WORK deepon New Well XX Modify or Repair Replacement Abandonment					201	
6. DRILL METHOD			-			
XXMud Rotary						
7. SEALING PROCEDURES		11				
SEAL/FILTER PACK AMOUNT METHOD Material From To Sacks or						
Pounds						
#8-12 Colorado sand 500#					-	-
			RECEIV	ED		-
Was drive shoe used? Y□ NXX Was drive shoe seal tested? Y□ NXX			APR 0 8			Ħ
8. CASING/LINER:			WATER RESOL	IDCER		+-
Olameter From To Gauge Meterial Casing Liner Welded Threaded 4'' 445 485 250 stee1 XX XX			WESTERN RE	GION		
4" 515 516'6".250 stee1 XX XX		1977			CHILICAS DE C	
		,				
Length of Headpipe 40 Length of Tailpipe 1 6 11		N.	11			
9. PERFORATIONS/SCREENS Q Perforations Method		**	** .j. **			
XXScreens Screen Type Johnson stainless	Completed	Depth	516!		(Measura	ıble)
	Date: Star	ted		Completed 7/	16/94	
From To Stot Size Number Diameter Material Casing Uner 485 515 30 4" stn1s			CERTIFICATION		e di Divere	
485 515 30 4" stnls	the time the	rig was	removed.		·	
10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:			vens & Sons	Firm	nNo. 1	53
	Firm Official and	Last Manager Co.	ayne Stevens	56,6	o	
	Supervisor o	n open	(Sign one of Firm O	fficial & Operator	39	

1.0

RECEIVED

Well 18

USE TYPEWRITER OR BALLPOINT PEN

JUN 1 7 1993 DEPARTMENT OF WATER RESOURCES

Department of Water Reswell 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.

	within 30 days after the comple	Alon o	-				$\overline{}$	$\overline{}$
1. V	WELL OWNER	7. W	ATER	LEVEL	<u> </u>			
	NameMICRON TECHNOLOGY,	s	tatic v	vater le	vel _460 feet below lan	nd surface.		
	2805 E COLUMBIA RD.	I FI	lowing	? 🗆 \	Yes y□ No G.P.	M. flow		
	Address 2805 E. COLUMBIA RD. HOISE, ID 83706 Drilling Permit No. 63-92-W-1000-200	A	rtesian	n closed	d-In pressure p.s.i.			1
[Orilling Permit No. 63-92-W-1000-200	C	ontroll	ed by:	□ Valve □ Cap □	Plug		
	Water Right Permit No.	18	Mpore	Mure	Pescribe artesian or temperature zone	es below.		-
		 						
2. F	NATURE OF WORK	8. W	/ELL 7	TEST D				
	□ New well □ Deepened Replacement	C) Pum	np.	□ Bailer 🖾 Air 🗆	Other		
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		9 8	18 37	37	BRN CLAY GRAVEI BRN CLAY GRAVEI		NO	-
Ļ	☐ Cable ☐ Mud ☐ Other	9"	49	52	BLACK LAVA	4	NO	_
		9"	52	54	BROKEN LAVA		NO	
5. \	WELL CONSTRUCTION	9"	54	61	BLACK LAVA		NO	
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ī	Was casing drive shoe used? ₹☐ Yes ☐ No	8"3	20	359	SAND GRAVEL		NO	
Ň	Was a packer or seal used? ☐ Yes X☐ No	5"3		480			NO	
F	Perforated? □ Yes X□ No	5"48	1-	500	GRAVEL BOULDERS		ES.	
	How perforated? Factory Knife Torch Gun	5"50	1.00	520 534	SAND GRAVEL GRAVEL BOULDERS	Ÿ	ES ES	
٠	Size of perforation? inches by inches Number From To	3			GRAVEL BUVELLEN		10	
-	perforations feet feet perforations feet feet			\longrightarrow			\vdash	
-	perforations feet feet		-	\rightarrow			-	
	Well screen installed? ☐ Yes X☐ No Manufacturer							
	Top Packer or Headpipe							
	Bottom of Tailpipe					12121	\vdash	
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	Diameter Slot size Set from feet to feet Diameter Slot size Set from feet to feet				MU	AIII		
	Gravel packed? ☐ Yes X☐ No ☐ Size of gravel				<u> </u>	, 9		
	Placed fromfeet tofeet				MAT 1 3 133.	3		
_ ا	20			\longrightarrow	Department of Water Ke	esources	-	
	Surface seal depth Material used in seal: Cement grout Bentonite Puddling clay ———————————————————————————————————		REV	ODO	tern Regional Ul	trice ,		
٤	X□ Bentonite □ Puddling clay □ Sealing procedure used: □ Slurry pit		MIS	海【版 》	THE WEST			
	☐ Temp. surface casing X☐ Overbore to seal depth							
٨	Method of joining casing: ☐ Threaded X☐ Welded	\vdash		AUGU	9 1993		بب	_
	□ Solvent Weld □ Cernented between strata	10.						
	Describe access port	1 .	Work r	etarted.	11/25/92_finished	4 3/5/	93_	-
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6. L	LOCATION OF WELL	11. F	ORILL	ER'S C	CERTIFICATION			
٤	Sketch map location must agree with written location.	1	I/We c	ertify t	that all minimum well constru	uction stand	ards w	vere
	Subdivision Name	1.		-	at the time the rig was remo			
		1 .	ا سرت	lama £	SOS Well Drilling	No. 212		
	W Lot No Block No						-500	_
					4145 N. Blackcotte			-
	County ADA	1 1	Signer	by Dri	Meridian, daho a	Jun	ٽ.	_
,	Address of Well Site HYW. 30 (give at least name of road)		-		and	Ĝ.		
	T2 XN □ or \$ □				perator)			
S¥	√ 1/NE			\ *.	(If different than the	Drilling Sup	ervisor)

Attachment B SEBGWMA 2017 Report

ANNUAL SUMMARY OF GROUND WATER CONDITIONS IN THE SOUTHEAST BOISE GROUND WATER MANAGEMENT AREA CALENDAR YEAR 2017

This report describes the ground water conditions in and around the Southeast Boise Ground Water Management Area (GWMA) based on the ground water level observation network established in the spring of 2000 under the guidance of the Southeast Boise Ground Water Advisory Committee (Advisory Committee). The network is a cooperative effort among Micron Technologies, Inc., Suez Water Idaho Inc., and the Idaho Department of Water Resources (IDWR). The J.R. Simplot Co., City of Boise, Sunroc Corp., and other land owners also provide access to wells. Each cooperator submits water level data to IDWR which is maintained in a single database.

Status of Monitoring Network

The network currently consists of 32 active monitoring sites (see Figure 1). The core monitoring network has remained fairly stable over time, but several wells have been added over the last few years and a few were discontinued (see Table 1). Three wells outside the GWMA boundary – 20-Mile Farm, Sunroc, and Micron South (sites 1, 9, and 17 respectively) – were added to the network in 2017 to 2018. Data for a 5-piezometer nested well and a domestic well from the Treasure Valley monitoring network is incorporated into this report (sites 31 and 32). Monitoring at the Micron Test #2 well was discontinued in 2016. Wells that have been designated as inactive monitoring sites and are no longer included in the Southeast Boise GWMA reports are listed at the bottom of Table 1.

Current monitoring frequency for active wells ranges from daily to quarterly. Data from all cooperators is submitted electronically to IDWR for incorporation into the annual network report. Seven wells (Figure 1) have been equipped with In-Situ ™ pressure transducers programmed to collect measurements twice daily. Data from five of the wells is included in this report, but data from the 20-Mile Farm and Sunroc wells is not included due to the short period of record.

Ground-Water Level Trends

Ground water level hydrographs for active wells in the network are shown in Appendix A. For ease of creation and comparison, the date range for all hydrographs has been set to begin at January 1, 1990 and end at January 1, 2018.

Water levels in the majority of wells with available data declined from 1990 to 2003 and rose from 2003 through 2015 with some exceptions. The JR Flat, Hollilynn, Ten Mile, Centennial, Market, Terteling, Columbia, and TVHP 4 wells are subject to significant seasonal and pumping effects making it difficult to draw meaningful conclusions from the hydrographs. The Agenbroad, Hurok, Hammer Flats, Harris S. Cole wells show slight to moderate declines, while the Boise Gun Club, and IDL House wells have experienced significant declines from 2003 through 2016 but the rate of decline appears to be moderating in recent years. Water levels in the Blacks Creek, Helen Lowder Park, and Lenzi wells appear to be stable.

Water levels rose in most of the other wells since 2003, with slight to significant rise in the Whitney Fire, East Boise Ave, Bergeson, Simplot, Christensen, and Croman wells. Water levels in the Pettibone, Micron Shallow, Micron Deep, Micron Test #1, and Pioneer wells were stable to increasing for many years, but have experienced declines ranging from approximately 5 to 25 feet over the past 2 to 3 years.

Recommendations

At the 2014 annual meeting, the Advisory Committee recommended an expansion of the monitoring network to include additional wells west of the GWMA boundary. Three wells in or near areas where there appears to be interest in development are included in this report. We continue to look for expanded opportunities for additional wells, installation of pressure transducers, and inclusion of data from other entities.

IDWR is working with the City of Boise to drill a new dedicated monitoring well in the area southeast of the airport. While this well will be close to the JR Flat well, it will allow for installation of a pressure transducer and should be less likely to be impacted by pumping. We are also working with the Idaho Transportation Department to gain access to, and to install and measuring port in the Rest Area well.

Tables

1. Summary of Ground Water Monitoring Network for Southeast Boise GWMA

Figures

1. Current (2017) Southeast Boise GWMA Monitoring Network

Appendix

A. Hydrographs of Wells Monitored for the Southeast Boise GWMA

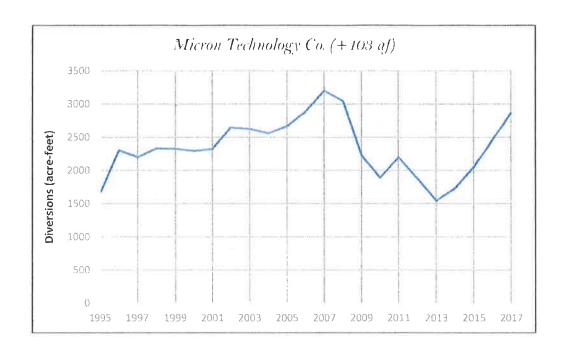
Table 1. Summary of Ground Water Monitoring Network for Southeast Boise GWMA.

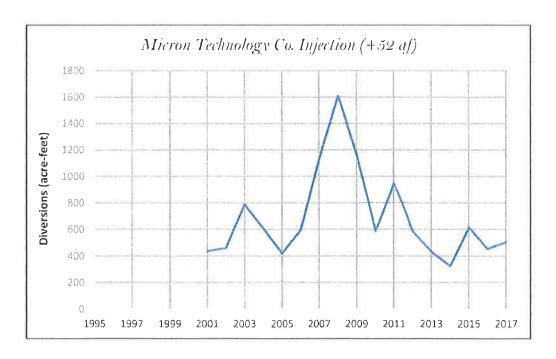
Map ID	Well ID	Well Name	Period of Water Level Record	Status of Well	Comments
1	01N 01E 34AAA1	20-Mile Farm	2018	Active	Transducer installed January 2018
2	01N 03E 04BBD1	Prigge	1994 - 2018	Active	Transducer installed October 2014
3	01N 04E 28CAC1	Agenbroad	1979 - 2018	Active	
4	02N 01E 36BBB1	Harris S Cole	1969 - 2018	Active	
5	02N 02E 02BBC2	JR Flat	1989 - 2018	Active	
6	02N 02E 04CBB1	ID Lands House	1973 - 2018	Active	Transducer installed March 2017
7	02N 02E 07CBC1	Hollylynn	1993 - 2018	Active	
8	02N 02E 17ABD1	Ten Mile	1996 - 2018	Active	
9	02N 02E 21CBB1	Sunroc	2018	Active	Transducer installed April 2018
10	02N 02E 22BBB1	Pioneer	1998 - 2018	Active	
11	02N 02E 34CCD1	Boise Gun Club	1976 - 2018	Active	Transducer installed November 2016
12	02N 03E 06DCA1	Micron Test #1	1986 - 2018	Active	
13	02N 03E 07CDA1	Pettibone	1997 - 2018	Active	
14	02N 03E 07DBB1	Micron Shallow	1998 - 2018	Active	
15	02N 03E 07DBB2	Micron Deep	1998 - 2018	Active	
16	02N 03E 09BAA2	Christensen	1993 - 2018	Active	
17	02N 03E 19DBB1	Micron South	2017-2018	Active	
18	02N 03E 34ACC1	Blacks Creek	2012 - 2018	Active	Transducer installed October 2014
19	03N 02E 25ACBC1	H Lowder Park	1992 - 2018	Active	
20	03N 02E 25CAA1	Centennial	1976 - 2018	Active	
21	03N 02E 26DBA1	Bergeson	1990 - 2018	Active	
22	03N 02E 35BAB1	Market	1991 - 2018	Active	
23	03N 02E 36ABC1	Terteling	1972 - 2018	Active	
24	03N 02E 36DCB1	Croman	1991 - 2018	Active	
25	03N 03E 30BCBD1	Hurok	1969 - 2018	Active	
26	03N 03E 30DDAA1	E Boise Ave	1987 - 2018	Active	Transducer installed April 2017.
27	03N 03E 31ADD1	Simplot	1993 - 2018	Active	
28	03N 03E 32BBAI	Whitney Fire	1975 - 2018	Active	
29	03N 03E 32CDD1	Columbia	1990 - 2018	Active	
30	03N 03E 33DAA1	Hammer Flats	1969 - 2018	Active	
31	03N 02E 14ABC	TVHP 4-1 to 5	2002 - 2018	Active	Transducer installed August 2016
32	03N 02E 11DDD1	Lenzi	1977 - 2018	Active	Transducer installed June 2016
	02N 03E 07BAC1	Micron Test #2	1983 - 2015	Inactive	Discontinued in 2016
	03N 03E 31BDD1	Oregon Trail	1977 - 2012	Inactive	Discontinued in 2013
	02N 03E 28CAA1	Rest Area	2007 - 2013	Inactive	Discontinued in 2014
	03N 02E 25CBCA1	Motiv Power 41A	1997 - 2015	Inactive	Discontinued in 2015
	02N 02E 04CAA1	ID Lands Field	2000 - 2009	Inactive	Discontinued in 2010
	02N 03E 09BCA2	Guyer	1993 - 2007	Inactive	Discontinued in 2007

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Annual Diversion Reporting for the Southeast Boise GWMA Calendar Year 2017 Diversions

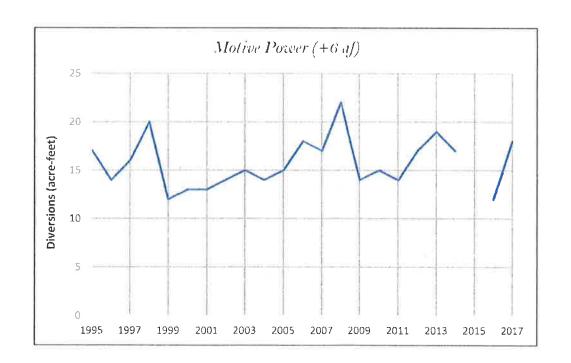




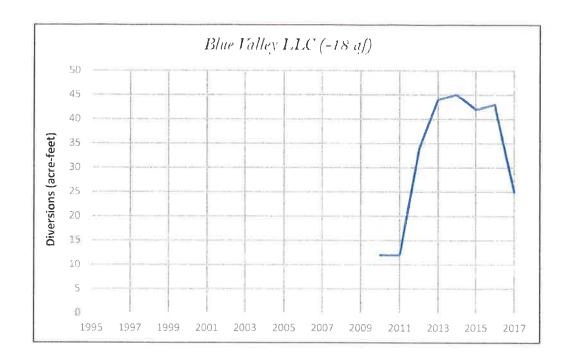
* Micron net change from 2016 = +351 acre-feet

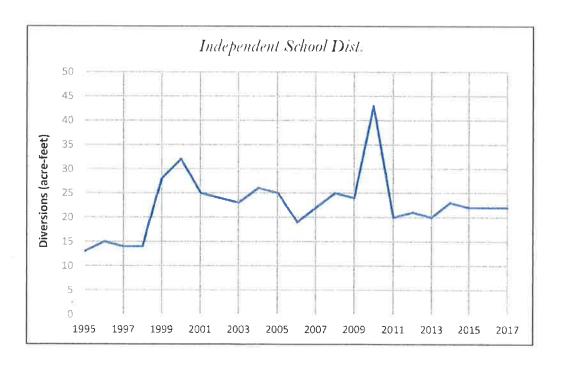
Annual Diversion Reporting for the Southeast Boise GWMA Calendar Year 2017 Diversions



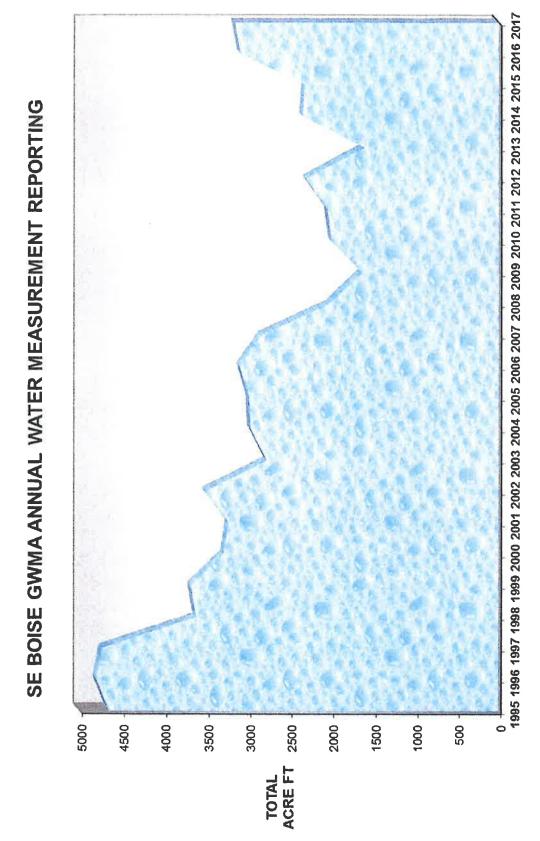


Annual Diversion Reporting for the Southeast Boise GWMA Calendar Year 2017 Diversions



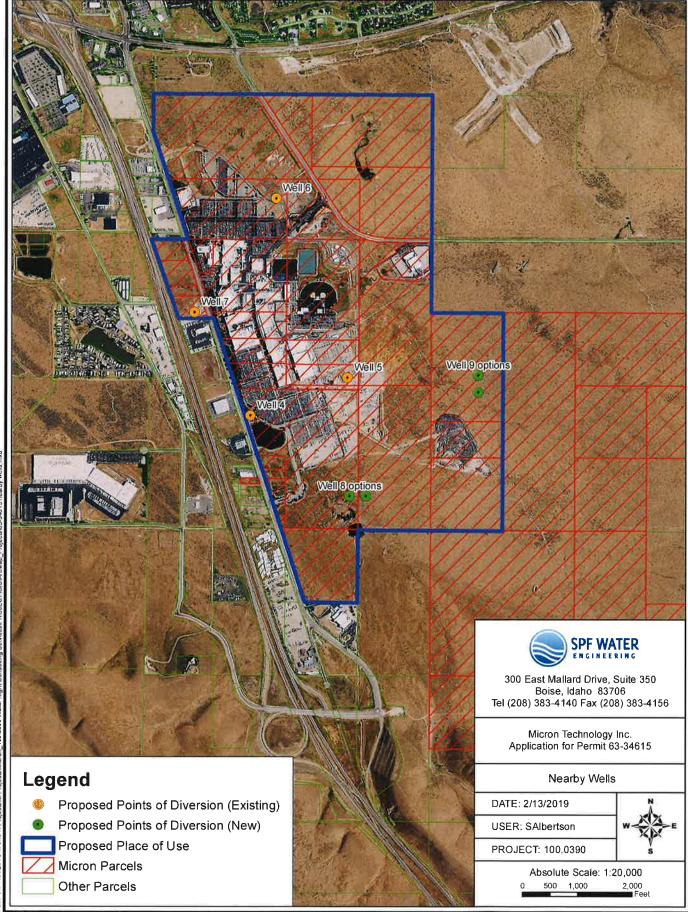


* 2017 reporting information for the Independent School District has not been submitted.



YEAR

Attachment C POD and POU Ownership Map



Attachment D Request for Comment Letters



City of Boise, Public Works Department

Attn: John Roldan, Strategic Water Resources Manager

PO Box 500

Boise, ID 83701-0500

Re: Applications for Permit No. 63-34614 and 63-34615 - Micron Technology, Inc.

Dear John,

Micron Technology, Inc. (Micron) proposes to appropriate 12 cfs of flood water from the Boise River for industrial and groundwater recharge purposes as described by attached application for permit 63-34614. The 12 cfs diversion rate is intended to supplement the rate and volume available under existing Micron Boise River water rights, including floodwater license 63-12420 and Nampa & Meridian Irrigation District water rights 63-199B and 63-200B.

Micron also proposes to appropriate 10 cfs of groundwater for industrial purposes. Water diverted under this proposed permit will consist of recharged groundwater in excess of that allowed for diversion under existing Micron license 63-31183.

Idaho Department of Water Resources Water Appropriation Rules (IDAPA 37.03.08, 40.05.g) require applicants to seek letters of comment on the effects of the construction and operation of projects proposed by certain water right applications.

Please provide comments concerning the above referenced applications to:

Nick Miller, P.E. Idaho Department of Water Resources Western Regional Office 2735 Airport Way Boise, ID. 83705-5082

If you have any questions regarding these applications, please do not hesitate to call me at 208-383-4140. SPF Water Engineering would appreciate a copy of your response be sent to us at the address listed in the footer below. Thank you for your consideration of this matter.

Sincerely,

Terry M. Scanlan, P.E., P.G.

Jug W fewlow

Principal Engineer/Hydrogeologist



Darren Coon, Secretary Nampa & Meridian Irrigation District 1503 First Street South Nampa, ID 83651

Re: Applications for Permit No. 63-34614 and 63-34615 - Micron Technology, Inc.

Dear Darren.

Micron Technology, Inc. (Micron) proposes to appropriate 12 cfs of flood water from the Boise River for industrial and groundwater recharge purposes as described by attached application for permit 63-34614. The 12 cfs diversion rate is intended to supplement the rate and volume available under existing Micron Boise River water rights, including floodwater license 63-12420 and Nampa & Meridian Irrigation District water rights 63-199B and 63-200B.

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Sincerely.

Terry M. Scanlan, P.E., P.G.

Principal Engineer/Hydrogeologist

Ly W Leave



Idaho Department of Fish & Game South West Region Office Attn: Brad Compton, Supervisor 3101 S. Powerline Rd Nampa, ID 83686

Re: Applications for Permit No. 63-34614 and 63-34615 - Micron Technology, Inc.

Dear Mr. Compton,

Micron Technology, Inc. (Micron) proposes to appropriate 12 cfs of flood water from the Boise River for industrial and groundwater recharge purposes as described by attached application for permit 63-34614. The 12 cfs diversion rate is intended to supplement the rate and volume available under existing Micron Boise River water rights, including floodwater license 63-12420 and Nampa & Meridian Irrigation District water rights 63-199B and 63-200B.

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Sincerely,

Terry M. Scanlan, P.E., P.G.

Jung W fearles

Principal Engineer/Hydrogeologist



Idaho Department of Environmental Quality Boise Regional Office Attn: Danie Merriman, Water Quality Analyst 1445 N. Orchard Boise, ID 83706

Re: Applications for Permit No. 63-34614 and 63-34615 - Micron Technology, Inc.

Dear Danie,

Micron Technology, Inc. (Micron) proposes to appropriate 12 cfs of flood water from the Boise River for industrial and groundwater recharge purposes as described by attached application for permit 63-34614. The 12 cfs diversion rate is intended to supplement the rate and volume available under existing Micron Boise River water rights, including floodwater license 63-12420 and Nampa & Meridian Irrigation District water rights 63-199B and 63-200B.

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Sincerely,

Terry M. Scanlan, P.E., P.G.

in W fearler

Principal Engineer/Hydrogeologist

Enclosures: Applications for Permit No. 63-34614 and 63-34615

cc: Nick Miller – Idaho Department of Water Resources Ann Dickey – Micron Technology

SPF Job No.: 100.0390



State of Idaho DEPARTMENT OF WATER RESOURCES

Western Region • 2735 Airport Way • Bolse, Idaho 83705-5082

Phone: (208) 334-2190 • Fax: (208) 334-2348 • Website: www.idwr.idaho.gov

GARY SPACKMAN
Director

February 1, 2019

BOISE PROJECT BOARD OF CONTROL 2465 OVERLAND RD BOISE ID 83705

Re: Application for Permit Nos. 63-34614 & 63-34615

Dear Interested Party:

The above referenced application may be of interest to you. I would like to inform you that the application has been submitted to the *Idaho Statesman* for advertising. I have enclosed a copy of the application for your convenience. This information is also available on our website www.idaho.gov.

If you desire to file a formal protest against approval of the application, a written protest along with the \$25.00 protest fee must be received in this office by **February 25, 2019.** A copy of the protest must also be sent to the applicant.

If you have any questions regarding the application, please contact this office at 208-334-2190.

Sincerely,

Anna Kaiser Administrative Assistant

Western Regional Office

Imaleron

Enclosures

From: Kaiser, Anna

Sent: Friday, February 1, 2019 9:19 AM

To: 'adickey@micron.com'

Subject: Applications for Permits 63-34614 & 63-34615

Attachments: Agency Recommendation Form.docx; WR 63-34614.pdf; WR 63-34615.pdf

ANNE DICKEY
SE BOISE COMMITTEE

Application for Permit Nos.63-34614 & 63-34615

Dear Ms. Dickey:

The Idaho Department of Water Resources (IDWR) is seeking written comment and/or recommendation(s) from your agency regarding the above referenced water right application(s). Copy(s) of the application(s) are enclosed with this email for your reference. Please review the application(s), complete the enclosed recommendation form, and submit your reply, if any, to this office by the protest deadline of **February 25, 2019**.

If your agency desires to formally protest approval of this application, you may do so by filing a written protest along with a \$25.00 filing fee for each protested application by the protest deadline.

IDWR will assume your agency does not object to this application if a timely response is not received. Please contact me if you have any questions regarding the application. Thank you for your help.

Sincerely,

Anna Kaiser | Administrative Assistant | IDWR-Western Region 2735 W Airport Way, Boise ID 83705 (208).334,2190 | anna.kaiser@idwr.idaho.gov

From:

Kaiser, Anna

Sent:

Friday, February 1, 2019 9:18 AM

To:

'chas@mcdevitt.org'

Subject:

Applications for Permits 63-34614 & 63-34615

Attachments:

Agency Recommendation Form.docx; WR 63-34614.pdf; WR 63-34615.pdf

CHAS MCDEVITT
SE BOISE COMMITTEE

Application for Permit Nos.63-34614 & 63-34615

Dear Mr. McDevitt:

The Idaho Department of Water Resources (IDWR) is seeking written comment and/or recommendation(s) from your agency regarding the above referenced water right application(s). Copy(s) of the application(s) are enclosed with this email for your reference. Please review the application(s), complete the enclosed recommendation form, and submit your reply, if any, to this office by the protest deadline of **February 25, 2019**.

If your agency desires to formally protest approval of this application, you may do so by filing a written protest along with a \$25.00 filing fee for each protested application by the protest deadline.

IDWR will assume your agency does not object to this application if a timely response is not received. Please contact me if you have any questions regarding the application. Thank you for your help.

Sincerely,

Anna Kalser | Administrative Assistant | IDWR-Western Region 2735 W Airport Way, Boise ID 83705 (208).334.2190 | anna.kaiser@idwr.idaho.gov

From:

Kaiser, Anna

Sent:

Friday, February 1, 2019 9:17 AM

To:

'ed@hydrologicinc.net'

Subject:

Applications for Permits 63-34614 & 63-34615

Attachments:

Agency Recommendation Form.docx; WR 63-34614.pdf; WR 63-34615.pdf

ED SQUIRES SE BOISE COMMITTEE

Application for Permit Nos.63-34614 & 63-34615

Dear Mr. Squires:

The Idaho Department of Water Resources (IDWR) is seeking written comment and/or recommendation(s) from your agency regarding the above referenced water right application(s). Copy(s) of the application(s) are enclosed with this email for your reference. Please review the application(s), complete the enclosed recommendation form, and submit your reply, if any, to this office by the protest deadline of **February 25, 2019**.

If your agency desires to formally protest approval of this application, you may do so by filing a written protest along with a \$25.00 filing fee for each protested application by the protest deadline.

IDWR will assume your agency does not object to this application if a timely response is not received. Please contact me if you have any questions regarding the application. Thank you for your help.

Sincerely,

Anna Kaiser | Administrative Assistant | IDWR-Western Region 2735 W Airport Way, Boise ID 83705 (208).334.2190 | anna.kaiser@idwr.idaho.gov

From: Kaiser, Anna

Sent: Friday, February 1, 2019 9:16 AM **To:** 'roger.dittus@suez-na.com'

Subject: Applications for Permits 63-34614 & 63-34615

Attachments: Agency Recommendation Form.docx; WR 63-34614.pdf; WR 63-34615.pdf

February 1, 2019

ROGER DITTUS SE BOISE COMMITTEE SUEZ

Application for Permit Nos.63-34614 & 63-34615

Dear Mr. DITTUS:

The Idaho Department of Water Resources (IDWR) is seeking written comment and/or recommendation(s) from your agency regarding the above referenced water right application(s). Copy(s) of the application(s) are enclosed with this email for your reference. Please review the application(s), complete the enclosed recommendation form, and submit your reply, if any, to this office by the protest deadline of **February 25, 2019**.

If your agency desires to formally protest approval of this application, you may do so by filing a written protest along with a \$25.00 filing fee for each protested application by the protest deadline.

IDWR will assume your agency does not object to this application if a timely response is not received. Please contact me if you have any questions regarding the application. Thank you for your help.

Sincerely,

Anna Kalser | Administrative Assistant | IDWR-Western Region 2735 W Airport Way, Boise ID 83705 (208).334.2190 | anna.kaiser@idwr.idaho.gov

From:

Kaiser, Anna

Sent:

Friday, February 1, 2019 9:15 AM

To:

'vic.conrad@simplot.com'

Subject:

Applications for Permits 63-34614 & 63-34615

Attachments:

Agency Recommendation Form.docx; WR 63-34614.pdf; WR 63-34615.pdf

February 1, 2019

VIC CONRAD SE BOISE COMMITTEE SIMPLOT

Application for Permit Nos.63-34614 & 63-34615

Dear Mr. Fischer:

The Idaho Department of Water Resources (IDWR) is seeking written comment and/or recommendation(s) from your agency regarding the above referenced water right application(s). Copy(s) of the application(s) are enclosed with this email for your reference. Please review the application(s), complete the enclosed recommendation form, and submit your reply, if any, to this office by the protest deadline of February 25, 2019.

If your agency desires to formally protest approval of this application, you may do so by filing a written protest along with a \$25.00 filing fee for each protested application by the protest deadline.

IDWR will assume your agency does not object to this application if a timely response is not received. Please contact me if you have any questions regarding the application. Thank you for your help.

Sincerely,

Anna Kaiser | Administrative Assistant | IDWR-Western Region 2735 W Airport Way, Boise ID 83705 (208).334.2190 | anna.kaiser@idwr.idaho.gov

From:

Kaiser, Anna

Sent:

Friday, February 1, 2019 9:14 AM

To:

Fischer, Nate

Subject:

Applications for Permits 63-34614 & 63-34615

Attachments:

Agency Recommendation Form.docx; WR 63-34614.pdf; WR 63-34615.pdf

February 1, 2019

NATE FISCHER SE BOISE COMMITTEE IDWR

Application for Permit Nos.63-34614 & 63-34615

Dear Mr. Fischer:

The Idaho Department of Water Resources (IDWR) is seeking written comment and/or recommendation(s) from your agency regarding the above referenced water right application(s). Copy(s) of the application(s) are enclosed with this email for your reference. Please review the application(s), complete the enclosed recommendation form, and submit your reply, if any, to this office by the protest deadline of **February 25, 2019**.

If your agency desires to formally protest approval of this application, you may do so by filing a written protest along with a \$25.00 filing fee for each protested application by the protest deadline.

IDWR will assume your agency does not object to this application if a timely response is not received. Please contact me if you have any questions regarding the application. Thank you for your help.

Sincerely,

Anna Kalser | Administrative Assistant | IDWR-Western Region 2735 W Airport Way, Boise ID 83705 (208).334.2190 | anna.kaiser@idwr.idaho.gov

Miller, Nick

From:

Ann Dickey (adickey) <adickey@micron.com>

Sent:

Friday, September 14, 2018 8:48 AM

To:

smd@idahowaters.com; Barker, Albert (IWRB Member); bryce@sawtoothlaw.com; mkellner@idahoconservation.org; jks@idahowaters.com; Abigail Germaine; Dittus, Roger; Michael P. Lawrence; Conrad, Vic; ed@hydrologicinc.net; Chas McDevitt; Terry Scanlan; Catherine Chertudi; Miller, Nick; LKThorn1@aol.com; John Roldan; Brandon Crane (bcrane);

kjbeaton@stoel.com

Subject:

Notice of Application for Permits - Micron Technology, Inc.

Attachments:

Recovery Permit Application PN.pdf; Recharge Permit App PN.pdf; Transfer Application

PN.pdf

Notice of Application for Permits - Micron Technology, Inc.

Dear Interested Party,

To meet our water needs for future growth and development, Micron Technology, Inc. (Micron) has submitted three permit applications to the Idaho Department of Water Resources (IDWR). The applications collectively request an increase to our integrated water system of diverting Boise River water for aquifer recharge and recovery utilizing the same proven technology Micron has employed since 2001. The applications are summarized as follows:

- 1. Recharge Permit Application proposes diversion of 12 cfs of Boise River flood water for industrial and ground water recharge use in addition to the amounts currently authorized under water right 63-12420.
- 2. Recovery Permit Application proposes 10 cfs of out-of-priority recharged groundwater diversions in addition to amounts authorized under water right 63-31183. Water proposed for diversion will be fully mitigated since it will be recovered Boise River water authorized for ground water recharge using storage water (BOR contract) and natural flow (Nampa & Meridian Irrigation District decrees 63-1998 and 63-2008 and Micron license 63-12420) and the floodwater right proposed under the recharge permit application submitted concurrently.
- 3. **Permit Transfer Application** addresses multiple administrative changes to rights 63-8992, 63-9029, 63-9357, 63-10208, 63-11283, 63-12420 and 63-31183.
 - Common place of use for listed water rights to reflect an integrated system.
 - Updated points of use to eliminate two abandoned wells (Gowen and Oregon Trail)
 - Reflect four current wells (Wells 4, 5, 6 and 7) and two proposed wells (Wells 8 and 9)

Micron anticipates interest in the recharge application from Boise River irrigation entities concerned about refill of storage space after storage water has been released. Micron is willing to offer subordination to refill of existing storage space in Arrowrock, Lucky Peak, and Anderson reservoirs.

Micron anticipates that IDWR will apply Standard Condition Codes 907 and 908 similarly to the conditions stipulated in our existing water right 63-12420.

Water right 63-12420, Condition No. 5 (Standard Condition Code 907)

If measured or calculated Boise River flows at the point of diversion are less than 240 cfs during the period beginning June 16 and ending February 29, water shall not be diverted pursuant to this right. If measured or

calculated Boise River flows at the point of diversion are less than 1,100 cfs during the period beginning March 1 and ending May 31, water shall not be diverted pursuant to this water right. Measured or calculated Boise River flows at the point of diversion shall be based on gauged Lucky Peak Dam discharge minus the gauged diversion of the New York Canal.

Water right 63-12420, Condition No. 8 (Standard Condition Code 908)

The right holder shall exercise this right only when authorized by the District 63 watermaster when the Boise River is on flood release below Lucky Peak dam/outlet. Flood releases shall be determined based upon the Memorandum of Agreement between the Department of Army and the Department of Interior for Flood Control Operations of Boise River Reservoirs, dated November 20, 1953, contracts with Reclamation contract holders in the Boise River Reservoirs, the Water Control Manual for Boise River Reservoirs, dated April 1985, and any modifications adopted pursuant to the procedures required in these documents and federal laws. The right holder shall not seek, directly or indirectly, any change to the flood control operations of the 1985 Water Control Manual for Boise River reservoirs. This water right may not be used to divert water released from storage to augment lower Snake River flows during the migration of Snake River salmon as authorized under Idaho law, or for any purpose of use authorized under the water rights for Lucky Peak Reservoir.

The activities proposed in this application package reflect Micron's continued commitment to excellence in water resource stewardship including:

- Aquifer management and recharge efforts intended to stabilize regional groundwater levels
- Participation on the Advisory Board of the Southeast Boise Groundwater Management Area and support of their regional groundwater management and protection strategies.

If you have questions or concerns, please contact:

Ann Dickey, Micron Environmental Compliance Manager, at 208-363-2152 Terry Scanlan, SPF Principal Engineer/Hydrogeologist, at 208-383-4140

Distribution:

Southeast Boise Groundwater Management Area Advisory Board Abigail Germaine, Esq., City of Boise Michael P. Lawrence, Esq.
S. Bryce Farris, Esq.
Shelley M. Davis, Esq.
John K. Simpson, Esq.
Albert P. Barker, Esq.
Marie Callaway Kellner, Esq.
Lavar Thornton
Kevin J. Beaton, Esq.
Brandon Crane, Esq.
Idaho Department of Water Resources
Terry Scanlan



Ann Dickey, PE
Environmental Compliance Manager
Micron Technology, Inc.
(208) 363-2152 office
(208)297-9808 cell
adickey@micron.com