Arizona Department of Water Resources
Records Management Section
500 N. 3rd Street • Phoenix, Arizona 85004
(602) 417-2405 • (800) 352-8488
www.water.az.gov

RECEIVED
MAY 17 2005
Information Management

Well Owner's Notification of Abandonment

NO FEE

- Review the instructions prior to completing the form in black or blue ink.
- The owner or operator of any well shall notify the Department, in writing, no later than 30 days after the abandonment has been completed. (A.R.S. § 45-594, A.A.C. R12-15-816(K))

** PLEASE PRINT CLEARLY **

FILE NUMBER

WELL REGISTRATION NUMBER
55 - 0874~~3~~ 4

SECTION 1. DRILLING FIRM

NAME: The Weber Group	
DWR LICENSE NUMBER: 215	
TELEPHONE NUMBER: (480) 961-1141	FAX: (480) 961-0260
DATE ABANDONMENT COMPLETED: 4/18/05	

SECTION 2. LOCATION OF WELL

WELL LOCATION ADDRESS (IF ANY):

TOWNSHIP (N/S)	RANGE (E/W)	SECTION	160 ACRE	40 ACRE	10 ACRE
1N	5E	19	SE ¼	SW ¼	SW ¼

COUNTY ASSESSOR'S PARCEL ID NUMBER

BOOK	MAP	PARCEL
134	37	001B

COUNTY WHERE WELL IS LOCATED: Maricopa

SECTION 2. OWNER INFORMATION

Well Owner		Landowner (if different from Well Owner)	
FULL NAME OF COMPANY, ORGANIZATION, OR INDIVIDUAL: City of Mesa		FULL NAME OF COMPANY, GOVERNMENT AGENCY, OR INDIVIDUAL: City of Mesa	
MAILING ADDRESS: 640 N. Mesa Drive		MAILING ADDRESS: 640 N. Mesa Drive	
CITY / STATE / ZIP CODE: Mesa, Arizona, 85201		CITY / STATE / ZIP CODE: Mesa, Arizona, 85201	
CONTACT PERSON NAME AND TITLE: Harry Brown, Water Superintendent		CONTACT PERSON NAME AND TITLE: Craig Crocker, Property Acquisition Supervisor	
TELEPHONE NUMBER: (480) 644-~~3132~~ 2132	FAX: (480) 644-2768	TELEPHONE NUMBER: (480) 644-3050	FAX: (480) 644-3465

I state that this notice is filed in compliance with A.R.S. § 45-594 and A.A.C. R12-15-816 and is complete and correct to the best of my knowledge and belief.

SIGNATURE OF WELL OWNER	DATE
PETE EULATE FOR HARRY BROWN	5/10/05

ARIZONA DEPARTMENT OF WATER RESOURCES
Records Management Section
500 N. 3rd Street * Phoenix, Arizona 85004
(602) 417-2405 * (800) 352-8488
www.water.az.gov

Well Abandonment Completion Report

RECEIVED APR 25 2005

RECEIVED MAR 0 9 2005 WEBER GROUP

- Review instructions prior to completing form
- The drilling firm or single well licensee must file this report within 30 days of completion of abandonment (A.R.S. § 45-594, A.A.C. R12-15-816)

** PLEASE PRINT CLEARLY **

FILE NUMBER: A(1-5) 19 DCC
WELL REGISTRATION NUMBER: 55- 087443

SECTION 1. DRILLING AUTHORIZATION

Drilling Firm

WEBER GROUP, L.C.	DWR LICENSE NUMBER: 215
16825 S. WEBER DRIVE	TELEPHONE NUMBER: 480-961-1141
CHANDLER, AZ 85226-4112	FAX:

SECTION 2. REGISTRY INFORMATION

Well Owner

FULL NAME OF COMPANY, ORGANIZATION OR INDIVIDUAL: CITY OF MESA
MAILING ADDRESS: 640 N. MESA
CITY / STATE / ZIP: MESA, AZ 85201
CONTACT PERSON NAME AND TITLE:
TELEPHONE NUMBER: 480-644-2132
FAX:

Location of Well

WELL LOCATION ADDRESS (IF ANY):

TOWNSHIP (N/S)	RANGE (E/W)	SECTION	160 ACRE	40 ACRE	10 ACRE
1 N	5 E	19	SE 1/4	SW 1/4	SW 1/4

COUNTY ASSESSOR'S PARCEL ID NUMBER
BOOK: 134 MAP: 37 PARCEL: 001B

LATITUDE: 33 ° 24 . 28.1 "N LONGITUDE: 111 ° 52 . 58.5 "W

LAND SURFACE ELEVATION AT WELL: Feet Above Sea Level

METHOD OF LATITUDE / LONGITUDE (CHECK ONE): ☐ USGS Quad Map ☐ Conventional Survey ☒ GPS : ☐ Hand-Held ☐ Survey-Grade

COMPLETED MAY 0 3 2005

SECTION 3.

Questions	Yes	No	Explanation :
1. To your knowledge, is there any information that exists which indicates that the water in this well has been, may be or is contaminated ?	X		IF YES, EXPLAIN (ATTACH ADDITIONAL PAGE IF NECESSARY)
2. Is there another well name or identification number associated with this well ?	X		IF YES, PLEASE STATE SW-2
3. Prior to abandonment, did the well have 20' of surface casing AND 20' of grout in the annular space surrounding the casing ?	X		If No , was the top 20' of casing removed prior to setting the cement plug ? ☐ Yes ☐ No
4. Was the well backfilled above the cement plug ?	X		
5. Was the well casing video logged ?	X		
6. Why was the well abandoned ?	Facility Sold, no longer needed production		

Well Abandonment Completion Report

WELL REGISTRATION NUMBER
55- 087443

SECTION 4. ORIGINAL WELL CONSTRUCTION DESIGN (attach additional page if needed)

Existing Borehole			Existing Casing (to the best of your knowledge)														
DEPTH FROM SURFACE		BOREHOLE DIAMETER (inches)	DEPTH FROM SURFACE		OUTER DIAMETER (inches)	MATERIAL TYPE (X)				PERFORATION TYPE (X)						SLOT SIZE IF ANY (inches)
FROM (feet)	TO (feet)		FROM (feet)	TO (feet)		STEEL	PVC	ABS	IF OTHER TYPE, DESCRIBE	BLANK OR NONE	WIRE WRAP	SHUTTER SCREEN	MILLS KNIFE	SLOTTED	IF OTHER TYPE, DESCRIBE	
	See	attatched design														

Condition of casing: [X] Good [ ] Fair [ ] Poor

Existing Annular Material (to the best of your knowledge)

DEPTH FROM SURFACE		ANNULAR MATERIAL TYPE (X)								FILTER PACK		
						BENTONITE						
FROM (feet)	TO (feet)	NONE	CONCRETE	NEAT CEMENT OR CEMENT GROUT	CEMENT-BENTONITE GROUT	GROUT	CHIPS	PELLETS	IF OTHER TYPE OF ANNULAR MATERIAL, DESCRIBE	SAND	GRAVEL	SIZE
0	10		X									
10	290								none, gravel pack had been exhausted			
290 520	520 1198					X					X	Tacna No. 8

SECTION 5. ACTUAL WELL ABANDONMENT DESIGN (attach additional page if needed)

Refer to ADWR's Well Abandonment Handbook for additional information.

DEPTH TO WATER	DATE ABANDONMENT COMPLETED
125 Feet Below Land Surface	4-18-05

Casing Treatment

DEPTH FROM SURFACE		TREATMENT TYPE (X)				
FROM (feet)	TO (feet)	SONAR JET	BRUSH OR SCRAPE	MILLS KNIFE	CASING REMOVAL (explain in Remarks)	IF OTHER TYPE, DESCRIBE OR IF CASING WAS PERFORATED, DESCRIBE SPACING AND SIZE OF PERFORATIONS THAT WERE ADDED
0	10				X	
525	1155		X			

Sealing or Fill Material

DEPTH FROM SURFACE		MATERIAL TYPE (X)								MIXING RATIO by (check one) [ ] Weight [X] Volume	VOLUME OF MATERIAL USED (cubic feet)
						HIGH SOLIDS BENTONITE					
FROM (feet)	TO (feet)	NEAT CEMENT	CONCRETE	CEMENT-BENTONITE GROUT	SAND-BENTONITE GROUT	GROUT	CHIPS	PELLETS	SAND		
0	10									Native	
10	1155	X									2592

Actual Abandonment Method (See Well Abandonment Handbook)

CHECK ONE

- [ ] Standard Method
- [ ] Alternative 1
- [ ] Alternative 2
- [X] Alternative 3
- [ ] Alternative 4:
  - [ ] Variance Option
- [ ] Alternative 5:
  - [ ] Variance Option 1
  - [ ] Variance Option 2
- [ ] Other (please specify)

Emplacement Method of Sealing or Fill Material

CHECK ONE

- [ ] Gravity
- [ ] Pressure Grouting
- [X] Tremie Pumped
- [ ] Other (please specify)

REMARKS

Unable to perforate at 125'-225' due to cemented liner

I state that this notice is filed in compliance with A.R.S. § 45-594 and A.A.C. R12-15-816 and is complete and correct to the best of my knowledge and belief.

TYPE OR PRINT NAME AND TITLE	SIGNATURE OF QUALIFYING PARTY	DATE
Marty Weber Member	[signature]	4/21/05

ARIZONA DEPARTMENT OF WATER RESOURCES

GROUNDWATER MANAGEMENT SUPPORT SECTION

500 North Third Street
Phoenix, Arizona 85004

SPECIAL REQUIREMENTS APPLY (WQARF/SUPERFUND) - VARIANCE GRANTED-ABANDON

THIS AUTHORIZATION SHALL BE IN POSSESSION OF THE DRILLER DURING ALL DRILL OPERATIONS

WELL REGISTRATION NO: 55-087443

AUTHORIZED DRILLER: WEBER GROUP, L.C. LICENSE NO: 215

NOTICE OF INTENTION TO ABANDON A NON-EXEMPT WELL(S) HAS BEEN FILED WITH THE DEPARTMENT BY:

WELL OWNER: CITY OF MESA 640 N. MESA MESA, AZ 85201

The well(s) is/are to be located in the:

SW ¼ of the SW ¼ of the SE ¼ Section 19 Township 1 NORTH Range 5 EAST

No. of wells in this project: 1 Assessor Parcel No: 134-37-001B

THIS AUTHORIZATION EXPIRES AT MIDNIGHT ON THE DAY OF

3/4/05

GROUNDWATER MANAGEMENT SUPPORT

THE DRILLER MUST FILE A WELL ABANDONMENT COMPLETION REPORT WITHIN 30 DAYS OF ABANDONMENT

COPY

GREAT SEAL OF THE STATE OF ARIZONA
DITAT DEUS
1912

SW-2

Arizona Department of Water Resources
Groundwater Management Support Section
P.O. Box 458 • Phoenix, Arizona 85001-0458
(602) 417-2470 • (800) 352-8488
www.water.az.gov

WQARF

Notice of Intent to Abandon a Well

NO FEE

- Review instructions and the Well Abandonment Handbook prior to completing form with black or blue ink.
- You must include with your Notice:
  - Well construction diagram showing all existing well construction features listed in Section 5 and the proposed abandonment specifications listed in Section 6.

AMA / INA	B	SB
PNV	6	
RECEIVED DATE	WS	
02/01/05	07	
ISSUED DATE	WQARF	CERCLA
3/4/05	XRV	

FILE NUMBER: A(1-5)19DCC

WELL REGISTRATION NUMBER: 55 - 087443

** PLEASE PRINT CLEARLY **

SECTION 1. REGISTRY INFORMATION

Well Type

CHECK ONE

- ☐ Domestic
- ☐ Stock
- ☐ Irrigation
- ☐ ~~Municipal~~
- ☐ Monitor / Piezometer
- ☐ Geotechnical
- ☐ Mineral Exploration
- ☒ Other (*please specify*): Prodcution well for the former Motorola facilty located at Dobson and Broadway Roads.

FEB - 1 2005

Location of Well

WELL LOCATION ADDRESS (IF ANY)

TOWNSHIP (N/S)	RANGE (E/W)	SECTION	160 ACRE	40 ACRE	10 ACRE
1N	5E	19	~~SW~~ SE ¼	SW ¼	~~SE~~ SW ¼

LATITUDE			LONGITUDE		
N 33° Degrees	24' Minutes	28.1" N Seconds	W 111° Degrees	52' Minutes	58.5" W Seconds

COUNTY ASSESSOR'S PARCEL ID NUMBER

BOOK	MAP	PARCEL
134	37	001B

ORIGINAL WELL OWNER (IF KNOWN): City of Mesa

ORIGINAL WELL DRILLING FIRM (IF KNOWN)	DRILL DATE (IF KNOWN)	COUNTY WHERE WELL IS LOCATED
BC&M Drilling, Inc.	9/2-22/1981	Maricopa

SECTION 2. OWNER INFORMATION

Well Owner		**Landowner** (if different from Well Owner)	
FULL NAME OF COMPANY, ORGANIZATION, OR INDIVIDUAL		FULL NAME OF COMPANY, GOVERNMENT AGENCY, OR INDIVIDUAL	
City of Mesa		City of Mesa	
MAILING ADDRESS		MAILING ADDRESS	
640 N. Mesa Dr.		640 N. Mesa Dr.	
CITY / STATE / ZIP CODE		CITY / STATE / ZIP CODE	
Mesa, Arizona, ~~85021~~ 85201		Mesa, Arizona, ~~85021~~ 85201	
CONTACT PERSON NAME AND TITLE		CONTACT PERSON NAME AND TITLE	
Harry Brown		Harry Brown	
TELEPHONE NUMBER	FAX	TELEPHONE NUMBER	FAX
(480) 644-2132	(480) 644-2768	(480) 644-2132	(480) 644-2768

SECTION 3. ABANDONMENT AUTHORIZATION

Drilling Firm		**Consultant** (if applicable)	
NAME		CONSULTING FIRM	
The Weber Group		Clear Creek Associates	
DWR LICENSE NUMBER	ROC LICENSE CATEGORY	CONTACT PERSON NAME	
215	KA 146267	Todd Cruse	
TELEPHONE NUMBER	FAX	TELEPHONE NUMBER	FAX
(480) 961-1141	(480) 961-0260	(480) 659-7131	(480) 659-7143
		E-MAIL ADDRESS	
		(480) 961-1141	

SECTION 4.

Questions	Yes	No	If Yes:
1. To your knowledge, is there any information that exists which indicates that the water in this well has been, may be, or is contaminated?	X		EXPLAIN (ATTACH ADDITIONAL PAGE IF NECESSARY)
2. Is there another well name or identification number associated with this well?	X		PLEASE STATE: SW-2 and SP-2
3. Was the well casing video logged?	X		
4. Why is the well being abandoned?	Facility has been sold and the production well is not needed in the new facility plan.		

Notice of Intent to Abandon a Well

WELL REGISTRATION NUMBER
55 - 087433

Provide a well construction diagram showing all existing well construction features listed in Section 5 and the proposed abandonment specifications listed in Section 6.

SECTION 5. ORIGINAL WELL CONSTRUCTION DESIGN (attach additional page if needed)

Existing Borehole			Existing Casing (to the best of your knowledge)													
DEPTH FROM SURFACE		BOREHOLE DIAMETER (inches)	DEPTH FROM SURFACE		OUTER DIAMETER (inches)	MATERIAL TYPE (T)				PERFORATION TYPE (T)						SLOT SIZE IF ANY (inches)
FROM (feet)	TO (feet)		FROM (feet)	TO (feet)		STEEL	PVC	ABS	IF OTHER TYPE, DESCRIBE	BLANK OR NONE	WIRE WRAP	SHUTTER SCREEN	MILLS KNIFE	SLOTTED	IF OTHER TYPE, DESCRIBE	
See	Table															

Condition of casing: ☐ Good ☒ Fair ☐ Poor

Existing Annular Material (to the best of your knowledge)

DEPTH FROM SURFACE		ANNULAR MATERIAL TYPE (T)								FILTER PACK		
						BENTONITE						
FROM (feet)	TO (feet)	NONE	CONCRETE	NEAT CEMENT OR CEMENT GROUT	CEMENT-BENTONITE GROUT	GROUT	CHIPS	PELLETS	IF OTHER TYPE OF ANNULAR MATERIAL, DESCRIBE	SAND	GRAVEL	SIZE
0	290								Gravel pack - Tacna No. 8		X	
290	520					X						
520	1,198								Gravel pack - Tacna No. 8		X	

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SECTION 6. PROPOSED WELL ABANDONMENT DESIGN (attach additional page if needed)

DATE ABANDONMENT IS TO BEGIN

Refer to ADWR's Well Abandonment Handbook for additional information.

Casing Treatment

DEPTH FROM SURFACE		TREATMENT TYPE (T)				
FROM (feet)	TO (feet)	SONAR JET	BRUSH OR SCRAPE	MILLS KNIFE	CASING REMOVAL (explain in Remarks)	IF OTHER TYPE, DESCRIBE OR IF CASING IS TO BE PERFORATED, DESCRIBE SPACING AND SIZE OF PERFORATIONS TO BE ADDED
10	30			X		1" cuts, 2/ft.
140	240			X		1" cuts, 2/ft.
560	660			X		1" cuts, 2/ft.

Sealing or Fill Material

DEPTH FROM SURFACE		MATERIAL TYPE (T)									MIXING RATIO by (check one) ☐ Weight ☐ Volume	ESTIMATED VOLUME OF MATERIAL (cubic feet)
							HIGH SOLIDS BENTONITE					
FROM (feet)	TO (feet)	NEAT CEMENT	CONCRETE	SAND-CEMENT GROUT	CEMENT-BENTONITE GROUT	SAND-BENTONITE GROUT	GROUT	CHIPS	PELLETS	SAND		
See	Table											

Proposed Abandonment Method (See Well Abandonment Handbook)

CHECK ONE

- ☐ Standard Method
- ☐ Alternative 1
- ☐ Alternative 2
- ☐ Alternative 3
- ☐ Alternative 4:
  - ☐ Variance Option *
- ☒ Alternative 5:
  - ☐ Variance Option 1*
  - ☒ Variance Option 2*
- ☐ Other (please specify):

* requires a letter requesting a variance

Emplacement Method of Sealing or Fill Material

CHECK ONE

- ☐ Gravity
- ☐ Pressure Grouting
- ☒ Tremie Pumped
- ☐ Other (please specify):

REMARKS

I state that this notice is filed in compliance with A.R.S. § 45-594 and A.A.C. R12-15-816 and is complete and correct to the best of my knowledge and belief.

TYPE OR PRINT NAME AND TITLE	SIGNATURE OF WELL OWNER	DATE
Harry E Brown Water Superintendent	Harry E Brown	2-1-05
TYPE OR PRINT NAME AND TITLE	SIGNATURE OF LANDOWNER, IF APPLICABLE (SEE INSTRUCTIONS)	DATE
Craig Crocker, Property Acquisition Sup	Craig Crocker	2-1-2005

087433

Original Well Construction
City of Mesa Well SW-2
A-1-5-19ddc
ADWR Reg. #55-087443

[illegible]																
[illegible]			[illegible]													
DEPTH FROM SURFACE			DEPTH FROM SURFACE			MATERIAL TYPE (T)				PERFORTATION TYPE (T)						
FROM (feet)	TO (feet)	BOREHOLE DIAMETER (inches)	FROM (feet)	TO (feet)	OUTER DIAMETER (inches)	STEEL	PVC	ABS	IF OTHER TYPE, DESCRIBE	BLANK OR NONE	WIRE WRAP	SHUTTER SCREEN	MILS KNIFE	SLOTTED	IF OTHER TYPE, DESCRIBE	SLOT SIZE IF ANY (inches)
0	1,198	26	0	524	14	X			Liner	X					Liner	
			524	544	16	X								X	vertical	1/8 x 3"
			544	624	16	X					X					0.10
			624	664	16	X								X	vertical	1/8 x 3"
			664	744	16	X					X					0.10
			744	844	16	X								X	vertical	1/8 x 3"
			844	864	16	X					X					0.10
			864	988	16	X								X	vertical	1/8 x 3"
			988	1,008	16	X					X					0.10
			1,008	1,155	16	X								X	vertical	1/8 x 3"

RE
FEB - 1 2005

087433

Sealing and Filling Material
For the Abandonment of Well SW-2
A-1-5-19ddc
ADWR Reg. # 55-087443

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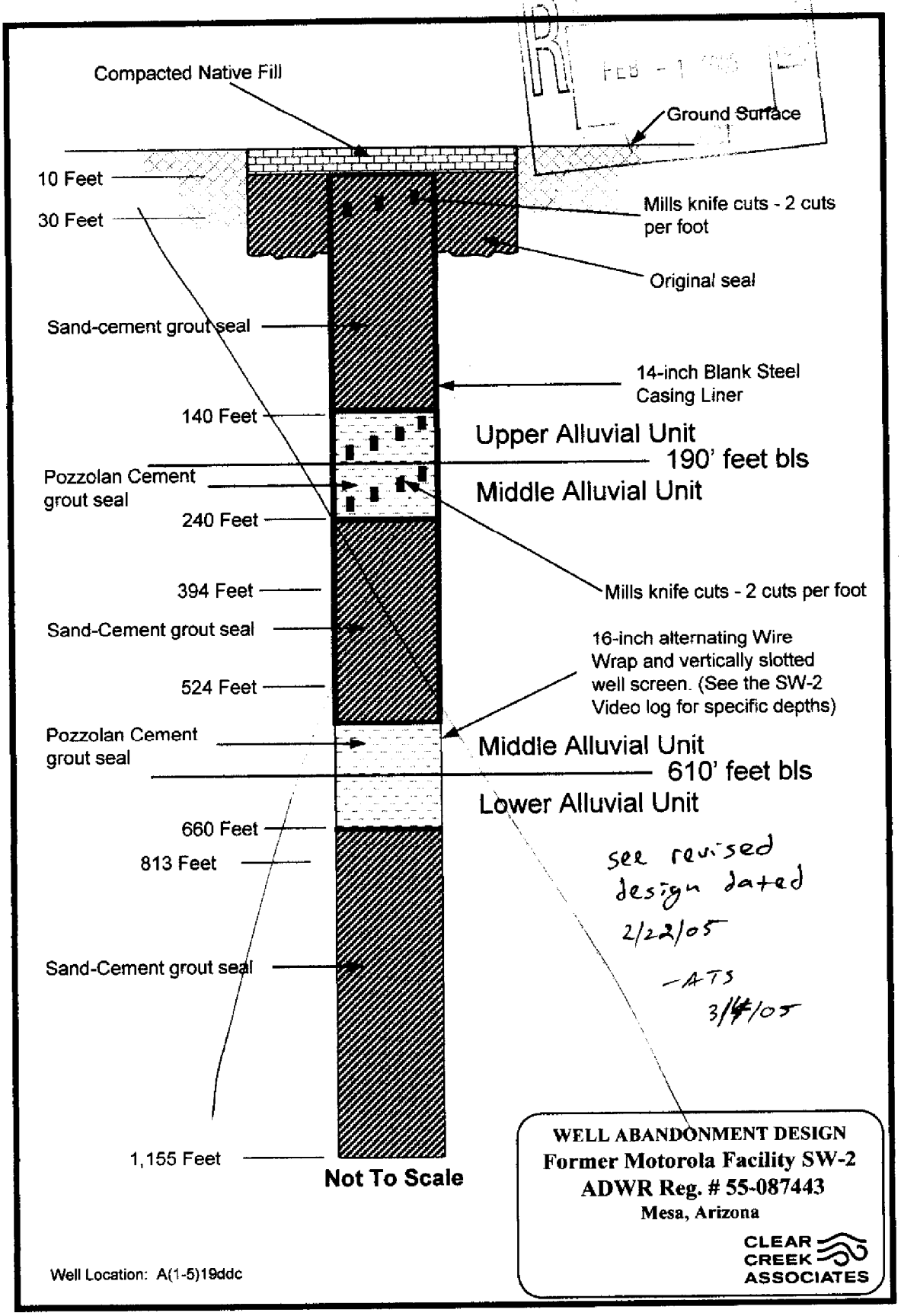
DEPTH FROM SURFACE		Material Type (T)												
From (feet)	To (feet)	NEAT CEMENT	CONCRETE	SAND-CEMENT GROUT	CEMENT-BENTONITE GROUT	POZZOLAN CEMENT GROUT	SAND-BENTONITE GROUT	HIGH SOLIDS BENTONITE GROUT	HIGH SOLIDS BENTONITE CHIPS	HIGH SOLIDS BENTONITE PELLETS	SAND	MIXING RATIO by (check one) Weight / X Volume	ESTIMATED VOLUME OF MATERIAL (Cubic Feet)
0	10										X		11 ft^3
10	30			~~X~~		X							21 ft^3
30	140			~~X~~		X							128 ft^3
140	240					X							107 ft^3
240	560			~~X~~		X							393 ft^3
560	660					X							140 ft^3
660	1,155			~~X~~		X							691 ft^3

per letter from M. Weber
dated 2/28/05
- ATS 3/4/05

087433



see revised design dated 2/22/05

-ATS 3/4/05

WeberGroup,L.C.

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MAR - 2 2005
WATER MGT

February 28, 2005

Arizona Department of Water Resoureces
Water Management Support Section
NOI Unit
500 North Third Street
Phoenix, AZ 85004

VARIANCE GRANTED
ATS 3/4/05

Request for Variance
Notice of Intent to Abandon Registered Wells No. 55-604790 and No. 55-087443

To Whom it May Concern:

On behalf of Freescale Semiconductor, Inc., Weber Group LC (Weber), requests a variance from A.A.C. R12-15-816 for the abandonment of two production wells at the former Motorola facility in Mesa, Arizona located on the northwest corner of Broadway Road and Dobson Road.

The abandonment rules and guidance require the use of "cement grout" of sufficient volume, density and viscosity to prevent fluid communications between aquifers. Technical data and information from cement companies show that Pozzolan cement is a better and more economic alternative to abandonment than using neat cement. They also show that Pozzolan is of sufficient density and viscosity to prevent fluid communications between aquifers. Two documents are attached describing the advantages of Pozzolan cement over neat cement.

The proposed abandonment procedures are described below.

SW-1 (55- 604790)

- Brush the screened portion of the well above the lost pump. The 100-foot interval between 525 and 625 feet bls will not be brushed as these intervals will be perforated with a mills knife.
- Based on site-specific data provided ADWR, the alluvial contacts for this well are considered to be 175 feet bls for the UAU/MAU contact, and 575 feet bls for the MAU/LAU contact. Mills knife slots will be attempted for 50 feet above and below the alluvial contacts.
- The entire well will be backfilled with Pozzolan Cement Grout in a continuous pour.

SW-2 (55-087443)

- Brush the entire screened portion of the well, between 524 and 1,155 feet bls.

16825 South Weber Drive • Chandler, Arizona 85226-4112 • Office (480) 961-1141 • Fax (480) 961-0290 • KA #146267, KB-01 #146265, L-11 #146266

- Based on site-specific data provided ADWR, the alluvial contacts for this well are considered to be 175 feet bls for the UAU/MAU contact, and 575 feet bls for the MAU/LAU contact. Mills knife cuts will be attempted for 50 feet above and below the UAU/MAU contact only.
- The entire well will be backfilled with Pozzolan Cement Grout in a continuous pour.

The alternative will not adversely affect other water users in the area or the aquifers. Freescale, via its extractions wells for its pump and treat system, is the only "water user" within a reasonable distance of the wells to be abandoned. Currently, the system is not operating; we do not anticipate any impact on these wells from abandonment of the former production wells using the Pozzolan. Based on the research we have done (see enclosed articles), the Pozzolan will provide adequate protection of the aquifers tapped by the production wells.

We also request a variance to the surface seal requirements to allow the developer of the site future access to the shallow subsurface near the well. The surface seal requirement states that a cement grout plug shall extend from 2 feet bls to a minimum of 20 feet bls. Since the well locations may be used for a future development, Weber would like to place Pozzolan Cement Grout from 30 feet bls to 10 feet bls. This interval would be cut with a Mills Knife (a minimum of two cuts per foot) and backfilled with native soil to land surface. This would allow future development needs in the shallow subsurface around the well sites.

The applications for permits to abandon the wells have already been submitted to ADWR. Please feel free to contact me if you have any questions regarding this request for a variance or the well abandonments.

Sincerely,

Marty Weber
Weber Group LC

RECEIVED
MAR - 2 2005
WATER QUALITY SECTION

CLEAR CREEK ASSOCIATES

6155 E. Indian School Rd.
Suite 200
Scottsdale, Arizona 85251
480 659 7131 Tel
480 659 7143 Fax

RECEIVED
FEB 22 2005
WATER QUALITY SECTION

FAX TRANSMITTAL

To:	Andrew Scott	**City/State**	Phoenix, Arizona
Company		**Fax Number**	(602) 417-2425
Copy To:			

From:	David Giles	**Date**	2/22/05
Project/Task No.	005053	**Subject**	Mesa Well Abandonments

Number of pages being transmitted including cover sheet: 4

Comments:

Andrew,

Attached are the revised abandonment plans for the Motorola Mesa wells we discussed last week. Please note the following changes:

SW-1

- Brush the screened portion of the well above the lost pump. The 100-foot interval between 525 and 625 feet bls will not be brushed as these intervals will be perforated with a mills knife.
- Based on site specific data provided ADWR the alluvial contacts for this well are considered to be 175 feet bls for the UAU/MAU contact, and 575 feet bls for the MAU/UAU contact. Mills knife slots will be attempted for 50 above and below the alluvial contacts.
- The entire well will be backfilled with ~~Neat~~ Cement Grout in a continuous pour. Pozzolan - per M. Weber Variance request

SW-2

- Brush the entire screened portion of the well, between 524 and 1,155 feet bls. - ATS 3/4/05
- Based on site specific data provided ADWR the alluvial contacts for this well are considered to be 175 feet bls for the UAU/MAU contact, and 575 feet bls for the MAU/UAU contact. Mills knife cuts will be attempted for 50 above and below these UAU/MAU contact only.
- The entire well will be backfilled with ~~Neat~~ Cement Grout in a continuous pour. Pozzolan - per M. Weber Variance request - ATS 3/4/05

MW-3

- The entire well will be backfilled with Neat Cement Grout in a continuous pour.

These changes are based on our telephone conversation on 2/18/05. Please fell free to contact me with any questions.

David B. Giles

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

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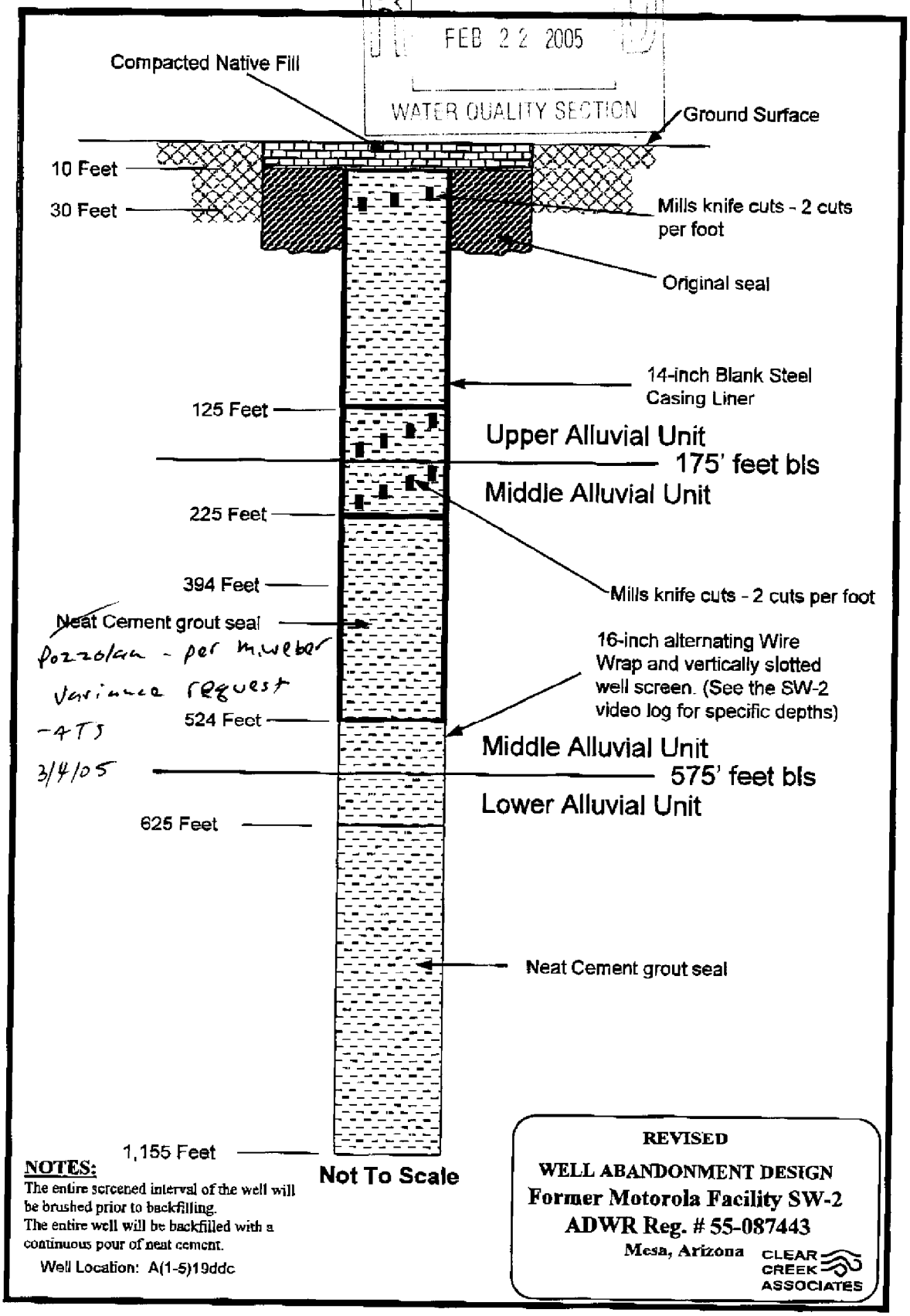
WATER QUALITY SECTION



NOTES:
The entire screened interval of the well will be brushed prior to backfilling.
The entire well will be backfilled with a continuous pour of neat cement.
Well Location: A(1-5)19ddc

REVISED
WELL ABANDONMENT DESIGN
Former Motorola Facility SW-2
ADWR Reg. # 55-087443
Mesa, Arizona
CLEAR CREEK ASSOCIATES

Weber Group, L.C.

SW-1 & SW-2

February 9, 2005

RECEIVED
FEB 14 2005
WATER QUALITY SECTION

Shannon Rife
Arizona Department of Water Resources
P.O. Box 458
Phoenix, AZ 85001-0458

Request for Variance
Notice of Intent to abandon wells#55-604790, 55-087443

VARIANCE GRANTED
ATS 3/4/05

Shannon,

I am respectfully requesting a variance from A.A.C. R12-15-816 stating that a cement grout plug shall extend from two feet below land surface (bls) to a minimum of twenty feet bls. We would like to abandon the above mentioned well by installing the appropriate slurry from the total depth of the well to 10'. The top 10' of casing shall be removed and backfilled to surface. The request is based on accommodating future construction needs.

If you have any questions, please don't hesitate to call.

Sincerely,

Marty Weber
Weber Group L.C.

16825 South Weber Drive • Chandler, Arizona 85226-4112 • Office (480) 961-1141 • Fax (480) 961-0290 • KA #146267, KB-01 #146265, L-11 #146266

ARIZONA DEPARTMENT OF WATER RESOURCES
500 North 3rd Street, Phoenix, Arizona 85004
Telephone (602) 417-2470
Fax (602) 417-2422

March 04, 2005

COPY

Janet Napolitano
Governor
Herb Guenther
Director

CITY OF MESA
640 N. MESA
MESA, AZ 85201

Registration No. 55-087443
File No. A(1-5) 19 DCC

Dear Applicant:

Enclosed is a copy of the Notice of Intent (NOI) to Abandon a Well. This NOI, which was recently filed with this Department is being returned to you as evidence of your compliance with ARS § 45-594; R12-15-816. The enclosed Well Owners Notification of Abandonment is to be submitted when the well has been properly abandoned. The well abandonment card and Abandonment Completion Report forms have been sent to your driller. He may not begin abandonment until he has received the well abandonment card. If you change drillers, you must supply this Department with the new driller's identity. Well abandonments shall be performed only by a licensed well drilling contractor or single well licensee.

ARS §45-594; R12-15-816(K) requires the registered well owner to submit a Well Owners Notification of Abandonment form within thirty (30) days after the abandonment of the well. It also requires the driller to furnish this Department a complete and accurate Well Abandonment Report within thirty (30) days after completion of abandonment. You should insist, and ensure, that both of these are done.

Sincerely,

Andrew Scott
NOI Unit
Water Management Support Section

Enclosures

ARIZONA DEPARTMENT OF WATER RESOURCES
Operations Division
500 North 3rd Street
Phoenix, Arizona 85004

RECEIVED
JUL 17 1995
RECORDS MGT

WELL DRILLER REPORT

This report should be prepared by the driller in all detail and filed with the Department within 30 days following completion of the well.

1. Owner Name: City of Mesa
   Address: P.O. Box 1466 (Street) Mesa (City) AZ (State) 85201 (Zip)
2. Driller Name: The B.L. Weber Group, Inc.
   Address: 16825 S. Weber Drive (Street) Chandler (City) AZ (State) 85226 (Zip)
3. Location: 1 (Township) (N)/S 5 (Range) (E)/W 19 (Section) ¼ SW (10-acre) ¼ SW (40-acre) ¼ SE (160-acre)
4. Well Registration No. 55- 087443 (Required)
5. Permit No. _____ (If issued)

DESCRIPTION OF WELL

6. Total depth of hole 1198 ft.
7. Type of casing steel
8. Diameter and length of casing 14 in. from 0 to 520 , 16 in from 520 to 1200
9. Method of sealing at reduction points Cement
10. Perforated from 520 to 1200 ,from _____ to _____ from _____ to _____
11. Size of cuts 1/8 X 3 Number of cuts per foot _____
12. If screen was installed. Length 200 ft. Diam 16 in. Type Johnson .100
13. Method of construction drilled
    (drilled, dug, driven, bored, jetted, etc)
14. Date started August (Month) 20 (Day) 1994 (Year)
15. Date completed May (Month) 5 (Day) 1995 (Year)
16. Depth to water 119 ft. (If flowing well, so state)
17. Describe point from which depth measurements were made, and give sea-level elevation if available
    Ground level
18. If flowing well, state method of flow regulation: _____
19. Remarks: Gravel pack removed form outside of 16" casing. 14" liner installed from surface to 520 feet, cement annular space

DO NOT WRITE IN THIS SPACE
OFFICE RECORD

Registration No. _____
File No. _____
Received _____ By _____
ENTERED JUL 19 1995
Entered _____ By _____

DWR 55 55 10/94 (Rev.)

LOG OF WELL

Indicate depth at which water was first encountered, and the depth and thickness of water bearing beds If water is artesian, indicate depth at which encountered, and depth to which it rose in well.

From (feet)	To (feet)	Description of formation material

I hereby certify that this well was drilled by me(or under my supervision), and that each and all statements herein contained are true to the best of my knowledge and belief.

Driller Name: THE B L. WEBER GROUP

16825 S. WEBER DR
Street

CHANDLER AZ 85226 602-961-1141
City State Zip Phone No

7-11-95
Date

P E R M I T

PERMIT NO. Q- 87443

FILE NO. A(1-5)19 dcc

REGISTRATION NO. 55-87443

STATE OF ARIZONA)
) ss.
County of MARICOPA)

This is to certify that I have examined the foregoing application and have determined that applicant is entitled to withdraw groundwater in an Active Management Area pursuant to Article 5 or 6 of the Groundwater Management Act of 1980 and that the well described by the Applicant should not cause unreasonable increasing damage to the surrounding land or other water users due to concentration of wells. I grant to applicant a permit to construct a new well by a city, town, private water company or an irrigation district/ replacement well in a new location. The well granted by this permit shall be drilled in accordance with construction standards adopted by the Department of Water Resources for new, and replacement wells. If a well is to be abandoned, it likewise shall be accomplished in accordance with Department standards. The proposed well is described as follows:

Applicant City of Mesa P. O. Box 1466, Mesa, Arizona 85201

Location: Township 1N Range 5E Section 19, SW¼ SW¼ SE¼.

Depth 1500 Feet Diameter 16 Inches Casing Type Steel

Maximum pumping capacity 2000 gallons per minute

Authorized use of groundwater The right of Cities to withdraw as much groundwater as is needed from within their service area (Article 6). 80 Acres

Land withdrawn water will be used upon:

Township 1N Range 5E Section 19, S ½ SE ¼ ¼

Witness my hand and seal of office this 14th day of April, 1981.

W. Don Maughan
Deputy Director

MICROFILMED

FILING FEE $10.00

FILING FEE $10.00

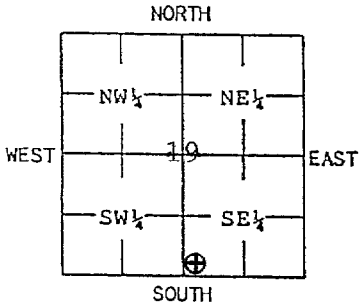
ARIZONA DEPARTMENT OF WATER RESOURCES
15 South 15th Avenue
Phoenix, Arizona 85007

JUN 10 1994

JUN 24 1994

NOTICE OF INTENTION TO DRILL, DEEPEN, REPLACE OR MODIFY A NON EXEMPT WELL IN AN ACTIVE MANAGEMENT AREA

Section §45 596, Arizona Revised Statutes, provides In an Active Management Area, prior to drilling, deepening, replacing or modifying a non exempt well a person entitled to withdraw groundwater, shall file a Notice of Intention to Drill with the Department.



INDICATE WELL LOCATION BY X
(Above diagram represents one 640 acre section)

1. WELL/LAND LOCATION
1 (N)S | 5 (E)W | 19
Township | Range | Section
10 acre subdivision
SW 1/4 SW 1/4 SE 1/4
10 Acre 40 Acre 160 Acre
County Maricopa

3 City of Mesa
Owner of well
P.O. Box 1466
Address
Mesa, Az. 85201
City State Zip

4 City of Mesa
Owner of the Land of wellsite
P.O. Box 1466
Address
Mesa, AZ 85201
City State Zip

5. DESCRIPTION OF THE WELL:
Diameter 16 inches
Depth 1,198 feet
Type of casing steel

6 Estimate of total annual pumping
900 acre feet per year

7. Estimated amount of groundwater withdrawn from the original well 1,500 acre feet per year.

8. Principal use of water: (be specific)
To be used as source water for deionized water production.

9. Other uses intended: (be specific)
none

10 Construction will start:
June 17, 1994
Month Year

DO NOT WRITE IN THIS SPACE
Office Record
File No: A(1-5)19 dcc
Filed 6-24-94 By SV
Input ENTERED By AUG 9 1994
DUPLICATE
Mailed 7-1-94 By SV
Registration 55 087443
AMA/INA Phx
W/S 07 S/B 06

11. This notice is filed by:
Check one: Owner ____ Lessee X
Motorola, Inc., M. Chait
Name
2200 W. Broadway Road
Address
Mesa, AZ 85202
City State Zip

12. Claim of entitlement to withdraw groundwater:
Permit 59- 507503.0000

13. Action requested: see diagram
Drill ____ Deepen ____
Replace ____ Modify X
For a replacement well give distance from original well ____ feet:

14. Will the well replaced be abandoned. N/A
____ Yes ____ No

15 Well Registration No. 55- 87443

16. The Weber Group, Inc.
Drilling Firm
16825 S. Weber Drive
Address
Chandler, AZ 85226-4112
City State Zip
215
DWR License Number
B, B-01, A-04, A-16, C-11,
Type of Contractors License
C-53, L-05, L-11

17 Is the proposed well within 100 feet of a septic tank system, sewage area, landfill, hazardous waste facility or storage area of hazardous materials or a petroleum storage area and tanks? Yes X No ____

MICROFILMED

GENERAL INSTRUCTIONS

1 Fill out this form in DUPLICATE and send WITH $10.00 FEE to 15 South 15th Avenue, Phoenix, Az 85007.
2 For specific instructions, limitations and conditions, see the reverse side of this form
3 State the registration number of the existing well and legal basis of entitlement to withdraw groundwater
4 Construction standards for replacement wells and the deepening and abandonment of existing wells shall be in accordance with Department Rules and Regulations.
5. Section §45 596(D), provides that the Director shall determine that all information required on form has been submitted. If not, the person filing will be notified, and the drilling, deepening, or modification of the well may not proceed.

I state that this Notice is filed in compliance with A.R.S. § 45-596 and is complete and correct to the best of my knowledge and belief and that I understand the limitations and conditions set forth on the reverse side of this form.

10 JUN 94
Date

Signature of Land owner or lessee

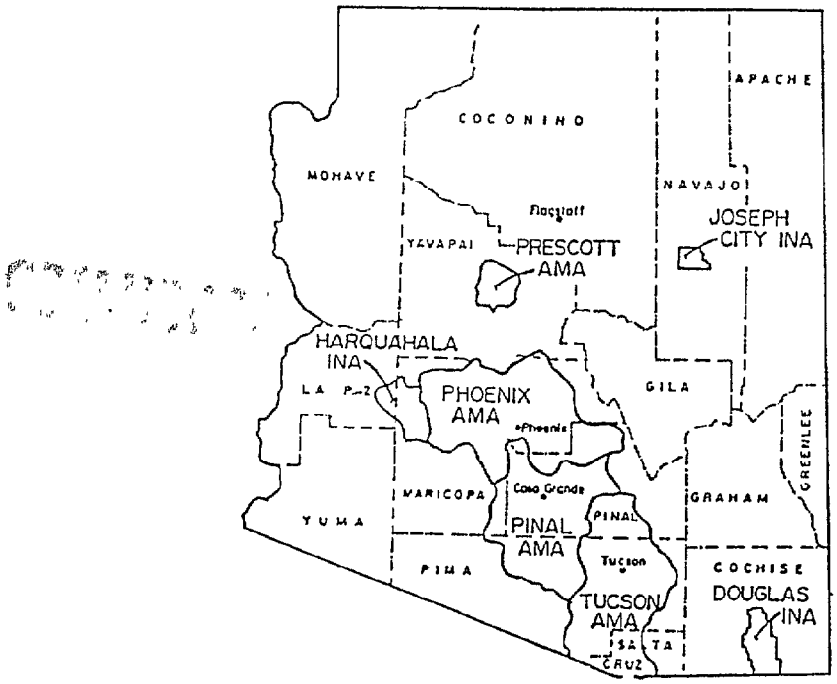
SPECIFIC INSTRUCTIONS, LIMITATIONS AND CONDITIONS

1. Upon the return of this annotated Notice, the owner will be provided with specific instructions relating to site verification requirements.

2. The drilling or deepening of this well shall be completed within one (1) year of the date of this Notice.

3. Under this authority, a replacement well must be drilled within 660 feet of the original well.

4. A sketch map depicting the four designated Active Management Areas is shown below. Greater detail maps of these AMAs are available on request.



ARIZONA DEPARTMENT OF WATER RESOURCES

OPERATIONS DIVISION

15 South 15th Avenue
Phoenix, Arizona 85007-3223
Phone (602) 542-1581

DUPLICATE

THIS AUTHORIZATION SHALL BE IN POSSESSION OF THE DRILLER DURING ALL DRILL OPERATIONS

WELL REGISTRATION NO. 55-087443

AUTHORIZED DRILLER: THE WEBER GROUP, INC. LICENSE NO. 215

NOTICE OF INTENTION TO MODIFY A NON-EXEMPT WELL HAS BEEN FILED WITH THE DEPARTMENT BY:

Owner of Well(s)
CITY OF MESA P.O. BOX 1466 MESA AZ 85201

The well(s) is/are to be located in:

SW 1/4	SW1/4	SE 1/4	Section 19	Township 1.0 NORTH	Range 5.0 EAST
10 acre	40 acre	160 acre			

ASSOCIATED RIGHT NUMBER: 59-507503.0000

THIS AUTHORIZATION EXPIRES AT MIDNIGHT ON JUN 30TH, 1995

THE DRILLER SHALL FILE A LOG OF THE WELL WITHIN 30 DAYS OF COMPLETION OF DRILLING.

GREAT SEAL OF THE STATE OF ARIZONA
DITAT DEUS
1912

CHIEF, OPERATIONS DIVISION

DR C3D-0193

DEPARTMENT OF WATER RESOURCES
99 East Virginia
Phoenix, Arizona 85004

RECEIVED
JAN 14 1983
DEPT OF
WATER RESOURCES

Registration No. 55-87443Q
Owner of
Well Site CITY OF MESA

File No. A(1-5)19dcc

COMPLETION REPORT

1. Completion Report to be filed with the Department within 30 days after installation of pump equipment.

2. The tested pumping capacity of the well in gallons per minute for a non-flowing well should be determined by measuring the discharge of the pump after continuous operation for at least 4 hours and for a flowing well by measuring the natural flow at the land surface.

3. Drawdown of the water level for a non-flowing well should be measured in feet after not less than 4 hours of continuous operation and while still in operation and for a flowing well the shut-in pressure should be measured in feet above the land or in pounds per square inch at the land surface.

4. The static groundwater level should be measured in feet from the land surface immediately prior to the well capacity test.

LOCATION OF THE WELL

T.1N., R.5E., Sec. 19, SW-1/4, SW-1/4, SE-1/4

Date Well Completed October, 1981 Depth of Well 1,207 feet

1. Well Test:
Test Pumping Capacity 3,200 (Gal. per min.) Date Well Tested October 12, 1981

Method of Discharge Measurement Orifice and Manometer
(weir, orifice, current meter, etc.)

Static Groundwater Level 220 ft. Drawdown 51 ft.
Total Pumping Lift 271 ft. Drawdown N/A lbs.
(Flowing Well)

2. Equipment Installed:

Kind of Pump Turbine, 342 ft. - 12" x 3" x 1-15/16" - Design: 2,600 g.p.m. @ 405' TDH
(turbine, centrifugal, etc.)

(1) Kind of Power Electric (Elec., Nat. Gas, Etc.) H.P. Rating of Motor 350

I HEREBY CERTIFY that the above statements are true to the best of my knowledge and belief.

Marion E. Miller
Signature

MICROFILMED

MARION E. MILLER, Vice President
Address

GILBERT PUMP & EQUIPMENT CO., INC.
4532 E. Washington Street, Phoenix, AZ 85034
City State Zip

January 6, 19 83
Date

(1) This pump was extended 300 ft. in 4/82 for experimental purposes.

2nd copy

3-1-83

REPORT OF WELL DRILLER

OCT 1981
DEPARTMENT OF WATER RESOURCES

1. OWNER Motorola Inc. (CITY OF MESA)
Name
2200 West Broadway Mesa, Arizona 85202
Address

2. Lessee or Operator
Name
Address

3. DRILLER B C & M Drilling, Inc.
Name
1128 South Lewis Mesa, Arizona 85202
Address

4. Location of well Twp. 1N Rge. 5E Section 19 SW ¼ SW ¼ SE ¼
10-acre subdivision

5. Intention to Drill File No. A(1-5) 19 dcc Permit No. Q-87443

DESCRIPTION OF WELL

6. Total depth of hole 1203 ft. ft.

7. Type of casing mild steel

8. Diameter and length of casing 16 in. from 0 to 1203, in. from to , in. from to

9. Method of sealing at reduction points

10. Perforated from 290 to 535, from 615 to 655, from 735 to 835, from 855 to 975
From 995 to 1195

11. Size of cuts 1/8 x 3 Number of cuts per foot 30 rows

12. If screen was installed Length 200 ft. Diam. 16 in. Type U.O.P. Johnson

13. Method of construction Drilled by reverse circulation Rotary
drilled, dug, driven, bored, jetted, etc.

14. Date started 8 (Month) 8 (Day) 81 (Year)

15. Date completed 9 (Month) 23 (Day) 81 (Year)

16. Depth of water 213 ft.
If flowing well, so state

17. Describe point from which depth measurements were made, and give sea level elevation if available from ground level approx. 1,200' above sea level

18. If flowing well, state method of flow regulation

19. REMARKS

(Well Log to Appear on Reverse Side)

File No. A(1-5)19 dcc
Registration - 55-87443

MICROFILMED

INPUT 10-27-81 gr

Re-entry 1-21-83

LOG OF WELL

Indicate depth at which water was first encountered, and the depth and thickness of water bearing beds. If water is artesian, indicate depth at which encountered, and depth to which it rose in well.

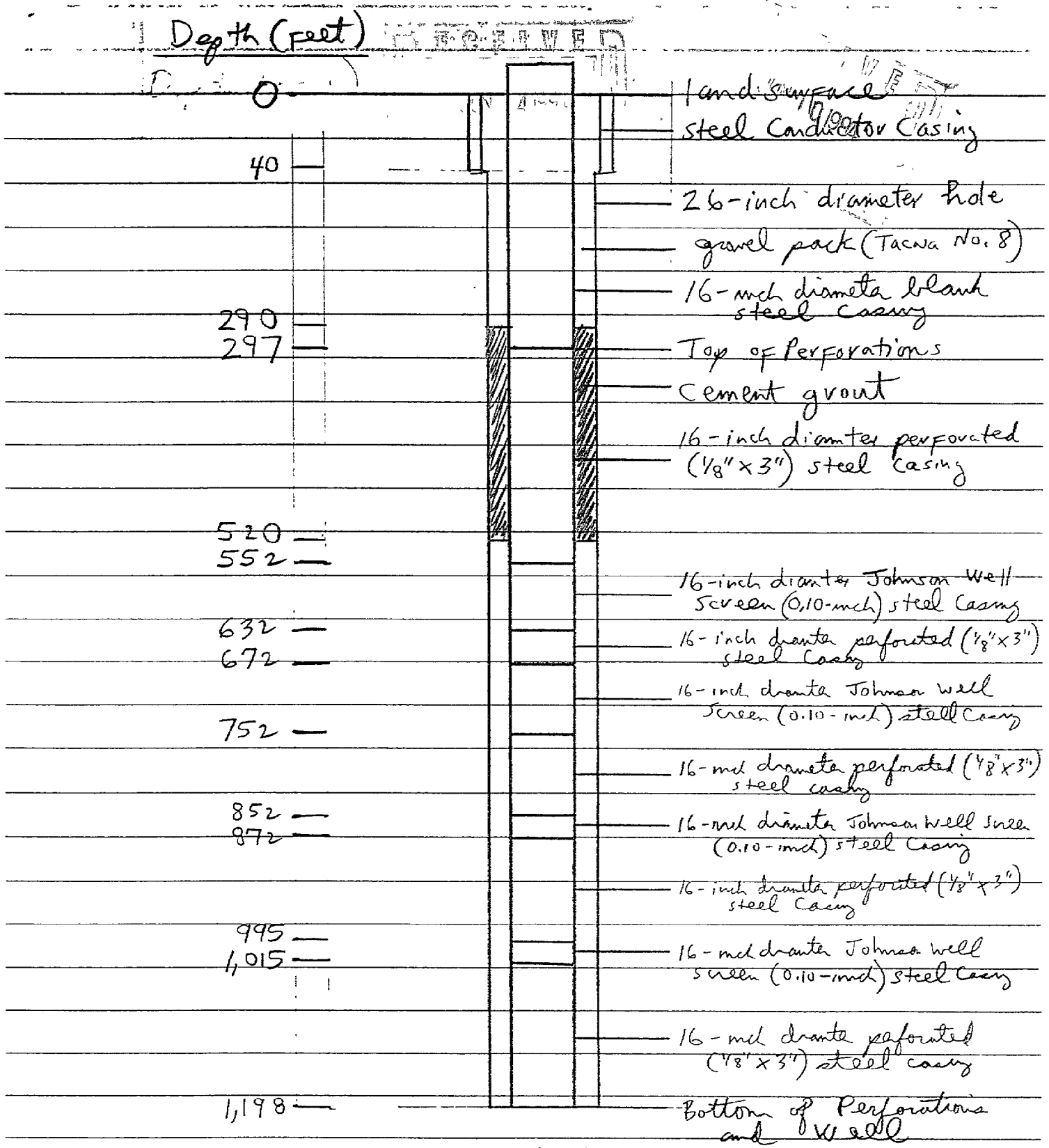
FROM (FEET)	TO (FEET)	DESCRIPTION OF FORMATION MATERIAL

I hereby certify that this well was drilled by me (or under my supervision), and that each and all of the statements herein contained are true to the best of my knowledge and belief.

Driller [illegible]
Name

B. C. & M. DRILLING, INC.
1128 S. Lewis
Mesa, Arizona 85202
Tel. 602-834-8756

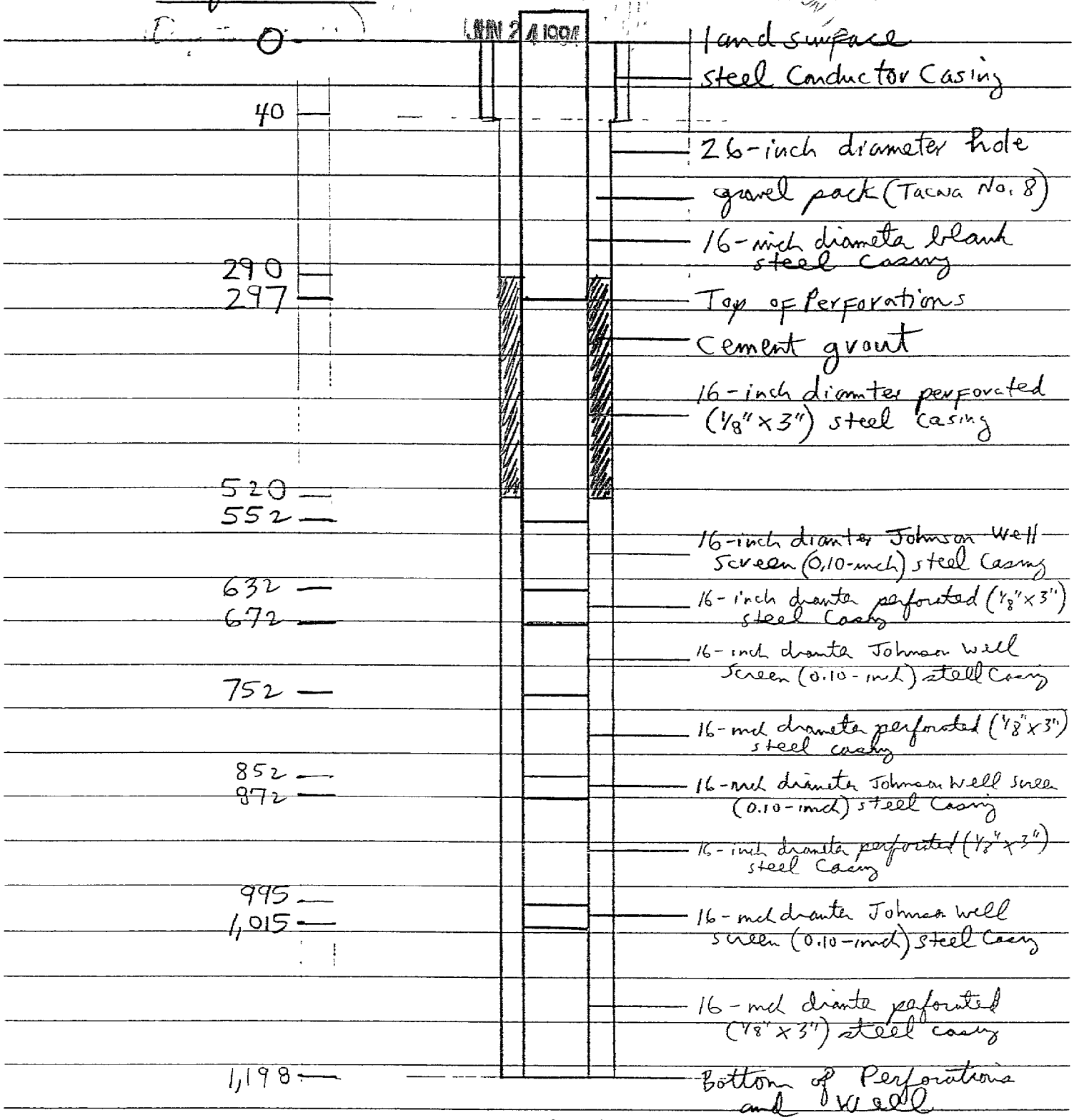
Date October 19 1981



Repaired

Schematic Diagram of Supply Well No. 2

RECEIVED
JAN 2 1 1997



Repaired

Schematic Diagram of A Supply Well No. 2

ARIZONA DEPARTMENT OF WATER RESOURCES
15 South 15th Avenue, Phoenix, Arizona 85007
Telephone (602) 542-1581
Fax (602) 256-0506

RECEIVED
JUN 24 1994

June 21, 1994

FIFE SYMINGTON
Governor

ELIZABETH ANN RIEKE
Director

City of Mesa
Maurice Chait
2200 W. Broadway Rd.
Mesa, AZ 85202

Dear Mr. Chait:

We are recently in receipt of your filing to modify well registration no. 55-087443. However, our review indicates that the filing(s) is incomplete under the Groundwater Management Act for the following reason(s):

1. Our records show that the ownership of this well belongs to City of Mesa. Please see computer printout. Enclosed is a Change of Ownership form if needed.

Upon clarification, or correction, no further action can be taken by this Department pending receipt of information that completes the application, as indicated above.

For further assistance, please feel free to call me at 542-1581.

Sincerely,

Sylvia Valdez
Water Resource Tech II

hs
Enclosures

RECEIPT

13776

KENNETH SCHMIDT & ASSOCIATES
1540 E. MARYLAND STE 100
PHOENIX, AZ 85014

STATE OF ARIZONA
DEPARTMENT OF WATER RESOURCES
OPERATIONS DIVISION
15 SOUTH 15TH AVENUE
PHOENIX, ARIZONA 85007
(602) 542-1581

ENTRY CODE 55

FILE NO. THRU

ITEM DESCRIPTION	RATE	AMOUNT
FILING FEE FOR NOI TO MODIFY A WELL		10.00
55-087443 A(1-5)19 DCC		
7-1-94 CK #5322 SV		10.00

CHECK NO. _____ FEE ACCOUNT NO. _____ TOTAL $ _____

CHIT NO _____ RECEIVED BY _____ DATE _____

IPS 1821 – Rev 4/91

MANERA & ASSOCIATES, INC.
CONSULTANTS IN WATER RESOURCES

PAUL A. MANERA, P.E.
GEOLOGIST • GEOPHYSICIST

April 2, 1981

Department of Water Resources
Water Right Division
99 East Virginia 85004

Re: Application for Permit to Drill

Gentlemen:

The name and address of the driller have been omitted from this application form. Specifications have been issued with a request for bids to construct the well. The name of the driller will be submitted as soon as the contract has been awarded.

Sincerely,

Paul A. Manera

Paul A. Manera

PAM/aw

MICROFILMED

TELEPHONE (602) 263 0356 • 5251 NORTH 16TH STREET, SUITE 302 • PHOENIX, ARIZONA 85016

DEPARTMENT OF WATER RESOURCES
222 N. Central Ave., Suite 850
Phoenix, Arizona 85004

APPLICATION FOR A PERMIT FOR A NON-EXEMPT NEW WELL OR REPLACEMENT WELL IN A NEW LOCATION IN ACTIVE MANAGEMENT AREAS

I. GENERAL INSTRUCTIONS:

1. COMPLETE ALL APPROPRIATE ITEMS ON THIS APPLICATION AND SIGN ON BACK. MAIL TO P. O. BOX 2600, PHOENIX, ARIZONA 85002.
2. Application must be filed in duplicate.
3. Application fee is ~~$10.00~~. 8.00
4. Permit fee of ~~$20.00~~ will be requested prior to issue of permit.
5. A replacement well shall not increase irrigated acreage.
6. A new well constructed by a city, town, private water company or an irrigation district shall comply with appropriate limitations cited in Article 6, A.R.S. 45-493 and 45-494 of the Groundwater Management Act of 1980.
7. Use explanatory on back for clarification, if necessary.

Bill McNatty 834-2251

NAME OF APPLICANT City of Mesa

P.O. Box 1466 MESA AZ 85201 8342273
(Mailing Address, City, State, Zip Code) Telephone Number

Applicant is: X Owner ___ Lessee Proposed Well is X New Well ___ Replacement Well in new location

II. GENERAL DATA ON PROPOSED WELL:

1. Location of well SW ¼ SW ¼ SE ¼ of Sec. 19 Twp. 1N Rge. 5E

2. Owner of well:
CITY OF MESA
Name
P.O. Box 1466
Address
MESA AZ 85201
City State Zip
8342273
Telephone No.

3. Owner of Land:
Motorola Inc.
Name
2200 W. Braodway Rd.
Address
Mesa, AZ 85202
City State Zip

4. Place of use of withdrawn water:
S½ ~~¼~~ SE ¼ ___ ¼ of Sec. 19
Twp. 1N Rge. 5E
(Legal Subdivision Description)

5. Diameter 16 inches

6. Depth 1500±

7. Type of casing:
Steel

8. Principle use of water:
Domestic & Industrial

9. Other intended uses:
None

10. Name and address of drill.
B C & M Drilling
Name
1128 S. Lewis
Address
Mesa, Az 85202
Department License No. T-19

11. Construction will start about:
May 1981

12. Design pump capacity:
2000 gpm

13. Claim of entitlement to withdraw groundwater pursuant to Ariticle 5 or 6 of the Code is based on the following facts: the right of Cities to withdraw as much ground water as is needed from within their service area (Article 6)

III. SPECIFIC DATA FOR NEW WELL:

1. New well is located in the East Salt River Valley sub-basin of the Phoenix Active Management Area.
2. Withdrawn groundwater will be used in the East Salt River Valley sub-basin of the Phoenix Active Management Area.
3. Will groundwater be withdrawn in your Service Area? Yes
4. Will withdrawn groundwater be used in your Service Area? Yes
5. Who will use this groundwater? City of Mesa
6. Has current map of Service Area been furnished the Department as required by A.R.S. 45-498? YES (If no, enclose as part of this application).

IV. SPECIFIC DATA FOR REPLACEMENT WELL:

1. Location of original well:
___ ¼ ___ ¼ ___ ¼ of Sec. ___ Twp. ___ Rge. ___
(10 acre subdivision)

2. Owner of land of original well:

Name

Mailing Address

MISCELLANEOUS

DO NOT WRITE IN THIS SPACE
OFFICE RECORD
Application No. 55-87443
(Registration)
Permit No. Q-87443
File No. A(1-5)19dcc
Filed 4-3-81 By m
Input 4-7-81 By Pat
Duplicate Mailed 4-14-81 By jc
AMA Phoenix

Re-extn 1-21-83

3. Diameter _____

4. Depth _____

5. Original Well File Number _____

6. Original well withdrawal _____
(acre feet per year)

7. Plan of abandonment of original well _____

_____

8. Place of use of withdrawn groundwater:

Twp. _____ Rge. _____ Sec. _____

_____ ¼ _____ ¼ _____ ¼ _____
(Acres)

9. Distance in feet between original well and replacement well _____

10. Proposed withdrawal of replacement well _____
(Must not be more consumptive than original well). (Acre feet per year)

EXPLANATORY:

_____

_____

_____

ARIZONA '81 APR -3 P1:06 RESOURCES

It is understood that the permit, if granted, will be in accordance with the Groundwater Management Act of 1980, and that the permittee will be bound by the provisions of such law and the provisions of the permit issued herefor. The above described well shall be completed within one year of receipt of the permit. If the well is not completed within one year, the applicant shall file a new application for a permit.

I, CITY OF MESA (KARL KOHLHOFF), state that the construction will be
(print name of applicant)
under the direct and personal supervision of the well driller designated on this form and that the designated driller holds a contractors license pursuant to Title 32, Chapter 10, Article 2, and holds a well driller's license pursuant to A.R.S. 45-595.

4-3 81
Date

Karl J Kohlhoff
Signature of Applicant

ENDORSEMENT NO. 1

Application is

☐ Rejected

☐ Returned for: Completion _____

Correction _____

Other _____

☒ Approved for Receipt

Marge Walter 4.3.81

ENDORSEMENT NO. 2

Application is

☐ Rejected

☐ Returned for: Completion _____

Correction _____

Other _____

☐ Approved for Receipt

_____

Page 1

B C & M DRILLING, INC.

1128 SOUTH LEWIS
MESA, ARIZONA 85202

966-5178

DATE 9/2/81

COMPANY Motorola

NUMBER OF WELL A-81-4

NAME OF WELL

NUMBER OF BITS USED 1

BIT SIZE BCFM. 14 3/4 - 2

TYPE AND FEET PER BIT

REPLICA

DEPTH FROM	DEPTH TO	FORMATION	START	END	TOTAL MIN	AIR PSI COMPRES	ROTARY RPM	WEIGHT ON BIT
		30.20						
35	40	Boulders						
40	45	"						
45	50	"						
50	55	"						
55	60	"						
60	65	"						
65	68	"		4:00	—	100	45	18000
		Con 30.15						
68	70	Boulders	4:00	5:10	70	100	45	18000
70	75	Boulders	5:10	7:10	2:00	100	45	18000
75	80	Boulders	7:10	11:08	2:58	100	45	18000
80	85	Boulders	11.08	1:20	2:15	100	50	18000
85	90	Boulders	1:30	8:07	1:37	[illegible]	55	[illegible]
90	95	Boulders	8:07	9:18	[illegible]	[illegible]	[illegible]	10000
95	100	Boulders	9:18	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
100	104	Boulders	9:55	10:30	[illegible]	[illegible]	[illegible]	[illegible]
		Con 30.15	10:30	11:15				
104	105	Boulders	11:15	11:25	10	110	55	12000
105	110	Boulders	11:25	11:48	23	110	55	12000
110	115	Boulders	11:48	12:13	25	110	55	12000
115	120	Boulders	12:13	12:35	22	110	55	12000
120	125	Boulders	12:35	12:55	20	110	55	12000
125	130	Boulders	12:55	1:20	25	110	55	12000
130	134	Boulders	1:20	1:39	19	110	55	12000
		Con 30.15	1:41	2:08				
134	135	Boulders	2:08	2:13	5	110	55	15000
135	140	Boulders	2:13	2:32	19	110	55	15000
140	145	Boulders	2:32	2:49	17	110	55	15000
145	150	Rock/Boulders	2:49	3:30	LOST WATER 41	110	55	15000
150	155	Rocks	3.30	4:12	42	110	55	15000
155	160	Rocks	4:12	4.30	18	110	55	15000
160	164	Rocks	4:30	6:45	LOST CIRCULATION 2:15	110	55	15000

REMARKS ~~70'~~ Air line
90' " "

MICROFILMED

Page 2

B C & M DRILLING, INC.

1128 SOUTH LEWIS
MESA, ARIZONA 85202

DATE [illegible]

COMPANY [illegible]

NAME OF WELL

BIT SIZE BC&M 17 [illegible]

NUMBER OF WELL B-81-4

NUMBER OF BITS USED

TYPE AND FEET PER BIT

DEPTH FROM	DEPTH TO	FORMATION	TIME START	TIME END	TOTAL MIN	AIR PSI COMPRES	ROTARY RPM	WEIGHT ON BIT
[illegible]	[illegible]	Con. [illegible]	[illegible]	[illegible]	[illegible]	110	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	1:16	1:30	14	110	60	15000
[illegible]	[illegible]	[illegible]	[illegible]	1:40	[illegible]	110	60	15000
[illegible]	[illegible]	[illegible]	1:40	1:52	12	110	60	[illegible]
[illegible]	[illegible]	[illegible]	1:52	1:58	6	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	1:58	[illegible]	5	110	60	15000
[illegible]	[illegible]	[illegible]	2:05	[illegible]	2	110	60	[illegible]
		Con 30-30	2:02	[illegible]				
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	5	110	60	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	4	110	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	2:54	3:00	6	110	60	[illegible]
[illegible]	[illegible]	[illegible]	3:00	[illegible]	[illegible]	110	60	[illegible]
[illegible]	[illegible]	[illegible]	3:03	3:15	[illegible]	[illegible]		
[illegible]	[illegible]	[illegible]	3:15	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	3:30	5	110	60	15000
			3:30	[illegible]				
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	230	110	60	[illegible]
[illegible]			[illegible]	[illegible]	12	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	6:42	[illegible]	10	110	60	15000
[illegible]	[illegible]	[illegible]	6:52	7:02	10	110	60	[illegible]
[illegible]	[illegible]	[illegible]	7:02	7:12	10	110	60	[illegible]
	[illegible]		7:12	7:18	6	110	60	[illegible]
		Con 30-30	7:18	[illegible]				
[illegible]	[illegible]	[illegible]	7:33	7:37	4	110	60	15000
[illegible]	[illegible]	[illegible]	7:37	7:45	[illegible]	110	60	[illegible]
[illegible]	[illegible]	[illegible]	7:45	7:52	7	110	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	7:52	[illegible]	[illegible]	110	60	15000
[illegible]	[illegible]	[illegible]	[illegible]	8:10	10	110	60	15000
[illegible]	[illegible]	[illegible]	8:10	8:15	5	110	60	[illegible]
[illegible]	[illegible]	[illegible]	8:15	8:18	3	110	[illegible]	[illegible]
		Con 30-45	8:18	[illegible]				

REMARKS: 130' [illegible]

MICROFILMED

Page 3

B C & M DRILLING, INC.

1128 SOUTH LEWIS
MESA, ARIZONA 85202

DATE 9/14/81

COMPANY Motorola

NUMBER OF WELL A-81-1

NAME OF WELL

NUMBER OF BITS USED

BIT SIZE B.C.S.M. 17½ with [illegible]

TYPE AND FEET PER BIT

DEPTH FROM	DEPTH TO	FORMATION	TIME START	TIME END	TOTAL MIN	AIR PSI COMPRES	ROTARY RPM	WEIGHT ON BIT
289	290	Clay/Gravel/Rock	6:00	6:08	8	125	40	8000
290	295	Light Conglomerate	6:08	7:05	57	125	55	8000
295	300	Sand/Gravel	7:05	8:04	59	125	55	12000
300	305	Gravel/Sand	10:08	[illegible]	[illegible]		50	15000
305	310	Gravel Clay	10:08	12:15	2:13	125	50	15000
310	314	Gravel Clay	12:15	12:40	35	125	50	15000
			12:40	12:55				
		Con 28-55						
314	315	Gravel Clay	12:55	1:00	5	125	50	15000
315	320	Clay Sand	1:00	1:07	7	125	50	[illegible]
320	325	Gravel Clay	1:07	1:15	8	125	50	15000
325	330	Gravel Clay	1:15	1:23	8	125	50	15000
330	335	Sand Clay	1:23	1:32	9	125	55	15000
335	340	Sand Clay	1:32	1:40	8	125	55	15000
340	343	Sand Clay	1:40	1:42	2	125	55	15000
		Con 30-60	1:42	1:52				
343	345	Sand Clay	1:52	2:00	8	125	55	15000
345	350	Sand Clay	2:00	2:14	14	125	55	15000
350	355	[illegible]	2:14	2:25	11	125	55	15000
355	360	[illegible]	2:25	2:32	7	125	55	15000
360	365	Sand Clay	2:32	2:35	3	125	55	15000
365	370	Sand Clay	2:35	2:37	2	125	55	15000
370	374	Sand Clay	2:37	2:40	3	125	55	15000
		Con 30-20	2:40	2:55				
374	375	Gravel Clay	2:55	2:58	3	125	55	15000
375	380	Gravel Clay	2:58	3:05	7	125	55	15000
380	385	Gravel Clay	3:05	3:13	8	125	55	15000
385	390	Clay	3:13	3:20	8	125	55	15000
390	395	Clay	3:20	3:30	10	125	55	15000
395	400	Clay	3:30	3:36	6	125	55	15000
400	404	Clay	3:35	3:42	7	125	55	15000
		Con 28-20	3:42	3:55				

REMARKS. ~~Air Line 160'~~ - 160' Air Line

3015

MICROFILMED

Page 4

B C & M DRILLING, INC.

1128 SOUTH LEWIS
MESA, ARIZONA 85202

DATE 9/1[illegible]/5[illegible]

COMPANY Motorola

NAME OF WELL [illegible]

BIT SIZE BC & M 26-3

NUMBER OF WELL A-21-4

NUMBER OF BITS USED

TYPE AND FEET PER BIT 301

DEPTH FROM	DEPTH TO	FORMATION	TIME START	TIME END	TOTAL MIN	AIR PSI COMPRES	ROTARY RPM	WEIGHT ON BIT
[illegible]	[illegible]	Clay	3:55	3:57	2	125	55	15000
[illegible]	[illegible]	Clay	3:57	4:07	10	125	[illegible]	[illegible]
[illegible]	[illegible]	Sand Clay	4:07	4:16	9	125	55	15000
[illegible]	[illegible]	[illegible]	4:16	4:25	10	125	55	[illegible]
420	425	Clay	4:25	4:35	10	125	55	15000
425	430	Clay	4:35	4:43	8	125	55	[illegible]
[illegible]	433	Clay	4:43	4:50	7	125	55	15000
		Gm 30-35	4:50	5:02				
[illegible]	435	Clay	5:02	5:06	4	125	55	15000
435	[illegible]	[illegible]	5:06	5:13	7	125	55	15000
440	[illegible]	[illegible]	5:13	5:23	10	125	55	[illegible]
445	[illegible]	[illegible]	5:23	[illegible]	9	125	55	[illegible]
450	[illegible]	[illegible]	5:32	5:40	8	125	55	[illegible]
455	[illegible]	[illegible]	5:40	5:47	7	125	55	[illegible]
[illegible]	[illegible]	[illegible]	5:45	[illegible]	3	125	55	15000
		[illegible]-20	5:50	6:10	[illegible]	[illegible]	[illegible]	
463	[illegible]	Clay	[illegible]	[illegible]	18	125	55	[illegible]
[illegible]		[illegible]	[illegible]	[illegible]	14	125	55	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	7	125	55	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		125	55	[illegible]
[illegible]	[illegible]	Clay	6:44	[illegible]	1	125	55	[illegible]
[illegible]	[illegible]	[illegible]	6:50	7:00	10	125	55	[illegible]
[illegible]	[illegible]	[illegible]	7:00	7:02	[illegible]	125	55	[illegible]
		[illegible] 30-40	7:02	7:13				
494	[illegible]	[illegible]	7:13	7:14	1	125	55	15000
[illegible]	500	[illegible]	7:14	7:22	8	125	55	15000
[illegible]	[illegible]	[illegible]	7:22	7:37	5	125	55	15000
[illegible]	[illegible]	[illegible]	7:37	7:35	8	125	55	[illegible]
[illegible]	[illegible]	Travel	7:35	7:42	7	125	55	15000
[illegible]	[illegible]	Clay	[illegible]	7:55	13	125	55	15000
[illegible]	[illegible]	[illegible]	7:55	8:04	9	125	55	15000
		[illegible] 30-35	8:04	8:15				

REMARKS:

MICROFILMED

Page 5

B C & M DRILLING, INC.

1128 SOUTH LEWIS
MESA, ARIZONA 85202

DATE [illegible]

COMPANY [illegible]

NUMBER OF WELL [illegible]

NAME OF WELL [illegible]

NUMBER OF BITS USED

BIT SIZE [illegible]

TYPE AND FEET PER BIT

DEPTH FROM	DEPTH TO	FORMATION	TIME START	TIME END	TOTAL MIN	AIR PSI COMPRES	ROTARY RPM	WEIGHT ON BIT
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
525	530	[illegible]	[illegible]	8:[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
530	535	[illegible]	[illegible]	[illegible]	10	[illegible]	[illegible]	[illegible]
535	540	Gravel	9:[illegible]	[illegible]	5	125	[illegible]	15000
540	545	Gravel	[illegible]	8:55	12	125	55	15000
545	550	Gravel	8:55	9:06	11	125	55	15000
550	554		9:06	9:15	9	125	55	15000
		30-35	9:15	9:28				
554	555	[illegible]	9:28	[illegible]	30	125	55	[illegible]
555	560	[illegible]	9:58	10:08	10	125	55	15000
560	565	Gravel	10:08	[illegible]	7	[illegible]	[illegible]	[illegible]
565	570	Gravel	[illegible]	10:30	15	125	55	15000
570	575	[illegible]	10:30	[illegible]	6	[illegible]	55	[illegible]
575	580	Gravel	[illegible]	10:46	6	125	55	15000
580	585	Gravel	10:46	10:50	4	125	55	15000
		Con 30-35	10:50	[illegible]				
585	590	Gravel	11:00	11:17	17	125	55	15000
590	595	Gravel	11:17	11:25	8	125	55	15000
595	600	Gravel	11:25	11:37	12	125	55	15000
600	605	Gravel	11:37	11:45	8	125	55	15000
605	610	Gravel	11:45	11:52	7	125	55	15000
610	615	Gravel	11:52	12:00	8	125	55	15000
		Con 30.30	12:00					
615	620	Gravel/Sand	12:14	12:25	11	125	55	15000
620	625	Gravel/Sand/Clay	12:25	12:34	9	125	55	15000
625	630	" " "	12:34	12:47	13	125	55	15000
630	635	" " "	12:47	12:58	11	125	55	15000
635	640	" " "	12:58	1:11	13	125	55	15000
640	645	" " "	1:11	1:25	14	125	55	15000
		CON. 29-90	1:25	REPAIR EQUIPMENT/OILS				
645	650	Gravel/Sand	2:25	2:33	8	125	55	20000
650	655	" / "	2:33	2:50	17	125	55	20000

REMARKS

MICROFILMED

Page 6

B C & M DRILLING, INC.

1128 SOUTH LEWIS
MESA, ARIZONA 85202

DATE 9/19/81

COMPANY Motorola

NAME OF WELL MESA AP[illegible]

BIT SIZE 26" - 3 CONE

NUMBER OF WELL [illegible]

NUMBER OF BITS USED

TYPE AND FEET PER BIT

DEPTH FROM	DEPTH TO	FORMATION	TIME START	TIME END	TOTAL MIN	AIR PSI COMPRES	ROTARY RPM	WEIGHT ON BIT
655	660	Gravel	[illegible]	3:07	17	125	55	20[illegible]
660	665	GRAVEL	3:07	3:17	10	125	55	20000
665	670	GRAVEL/CLAY 5%	3:17	3:27	10	125	55	20000
670	675	GRAVEL/CLAY 5%	3:27	3:43	16	125	55	20000
		CON 29.35	3:45	3:57				
675	680	GRAVEL	3:57	4:07	10	125	55	20000
680	685	GRAVEL	4:07	4:18	11	125	55	20000
685	690	GRAVEL/CLAY 5%	4:18	4:29	11	125	55	20000
690	695	GRAVEL/CLAY 5%	4:29	4:40	11	125	55	20000
695	700	GRAVEL/CLAY 5%	4:40	4:50	10	125	55	20000
700	705	GRAVEL/CLAY 5%	4:50	5:02	12	125	55	20000
		CON. 30.15	5:04	5:17				
[illegible]05	710	GRAVEL/CLAY 5%	5:17	5:27	10	125	55	25000
[illegible]	[illegible]5	GRAVEL/CLAY 5%	5:27	5:37	10	125	[illegible]	[illegible]
[illegible]	[illegible]	GRAVEL/CLAY 5%	5:37	5:45	8	125	55	[illegible]
[illegible]	[illegible]5	GRAVEL/CLAY 5%	5:45	5:51	6	125	55	25000
	[illegible]	GRAVEL/CLAY 5%	5:51	6:04	13	125	55	[illegible]
[illegible]	[illegible]	GRAVEL/CLAY 5%	6:04	[illegible]	11	125	55	[illegible]
		CON. 28.25	6:17	6:30				
735	740	GRAVEL/CLAY 15%	6:30	6:39	9	125	55	25000
[illegible]	745	GRAVEL	6:39	6:55	16	125	55	[illegible]
[illegible]	750	GRAVEL/CLAY 40%	6:55	7:11	16	125	55	25000
[illegible]	[illegible]	GRAVEL/CLAY 20%	7:11	7:29	18	125	55	[illegible]
[illegible]	[illegible]	[illegible]	7:29	7:43	14	125	55	[illegible]
[illegible]	763		7:43	7:55	12	125	55	[illegible]
		CON 29.80	7:56	8:12				
763	765	GRAVEL/CLAY 5%	8:12	8:14	2	125	55	[illegible]
765	770	[illegible]	[illegible]	8:[illegible]	14	125	55	[illegible]
[illegible]	[illegible]	GRAVEL/ROCK/CLAY	8:[illegible]	8:43	15	125	55	25000
[illegible]	[illegible]	GRAVEL/ROCK/CLAY	8:43	9:00	17	125	55	25000
[illegible]	[illegible]	GRAVEL/CLAY	9:[illegible]	9:15	15	125	55	[illegible]
[illegible]	[illegible]	GRAVEL/ROCK/CLAY	9:15	9:30	15	125	55	[illegible]

REMARKS

MICROFILMED

b C & M DRILLING, INC.

1128 SOUTH LEWIS
MESA, ARIZONA 85202

DATE 9/15/[illegible]

COMPANY Motorola

NUMBER OF WELL A-81-4

NAME OF WELL Mesa Ariz

NUMBER OF BITS USED

BIT SIZE 26" - 3 Cone

TYPE AND FEET PER BIT

DEPTH FROM	DEPTH TO	FORMATION	TIME START	TIME END	TOTAL MIN	AIR PSI COMPRES	ROTARY RPM	WEIGHT ON BIT
[illegible]	[illegible]	[illegible]	9 30	[illegible] 40	10	[illegible]	[illegible]	[illegible]
		Con 30-25	[illegible]	12:50				
792	795	[illegible]	12:50	1:00	10	125	55	[illegible]
795	800	Gravel	1:00	1:20	20	125	55	25[illegible]
[illegible]	[illegible]	Gravel	1:20	1:35	15	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	Gravel & Rock	1:35	2:15	40	125	55	25 300
[illegible]	[illegible]	Gravel & Rock	2:15	2:32	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	Gravel & [illegible]	2:32	[illegible] 58	[illegible]	125	[illegible]	[illegible]
[illegible]	[illegible]	[illegible] Rock	2:38	[illegible] 46	[illegible]	[illegible]	[illegible]	[illegible]
		Con. 30-40	2.41					
823	825	[illegible]	3:07	3:15	[illegible]	[illegible]		[illegible]
825	[illegible]	Gravel Rock	3:15	[illegible]	[illegible]	[illegible]	55	[illegible]
[illegible]	[illegible]	Gravel Rock	3:51	4:25	35	[illegible]	55	25 300
[illegible]		Gravel	4:25	[illegible] 38	13	[illegible]	[illegible]	[illegible]
			[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible] 50		[illegible]	[illegible]	55	25000
850	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
		[illegible]	[illegible]	[illegible]				
[illegible]			[illegible]		[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	125	55	[illegible]
[illegible]		[illegible]	5:45	6:25	40	125	55	[illegible]
[illegible]		[illegible]	6:25	[illegible]	[illegible]	125	50	[illegible]
[illegible]	[illegible]	[illegible]	7:[illegible]	7:[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]		[illegible]	7:35	[illegible]	110	125	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]		7:[illegible]	[illegible]	[illegible]		
		Con [illegible]	[illegible]	[illegible]		[illegible]		
[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	125	[illegible]	[illegible]
[illegible]	[illegible]	Rock [illegible]	[illegible]	7:30	[illegible]	[illegible]	[illegible]	[illegible]
	[illegible]	Dry Gravel [illegible]	7:30	[illegible]	[illegible]	125	50	30000
	[illegible]	[illegible] Gravel	[illegible]			12	[illegible]	[illegible]
		Rock / Gravel		11:20	2:14	125	50	30000
		Rock Gravel	11:20	12:45	1:25	125	50	30000

REMARKS: 150 [illegible]

MICROFILMED

Page [illegible]

B C & M DRILLING, INC.

1128 SOUTH LEWIS
MESA, ARIZONA 85202

DATE [illegible]

COMPANY [illegible]

NAME OF WELL [illegible]

BIT SIZE 26" 2

NUMBER OF WELL [illegible]

NUMBER OF BITS USED [illegible]

TYPE AND FEET PER BIT [illegible]

DEPTH FROM	DEPTH TO	FORMATION	TIME START	TIME END	TOTAL MIN	AIR PSI COMPRES	ROTARY RPM	WEIGHT ON BIT
	[illegible]	very Hard	12:45	[illegible]		[illegible]	55	[illegible]
		[illegible]	[illegible]	1:30				
[illegible]	[illegible]	[illegible]	1:30	[illegible]	[illegible]	125	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	2:15	[illegible]	[illegible]	[illegible]	[illegible]	
[illegible]	[illegible]	Rock	[illegible]	5:10	1:35	125	50	25000
9[illegible]	[illegible]	Rock	5:10	7:00	1:50	125	50	[illegible]
[illegible]	[illegible]	Rock	7:00	8:27	1:27	125	50	25000
[illegible]	[illegible]	Rock	8:27	9:25	58	125	50	25000
[illegible]		Rock	9:25	[illegible]	60	125	50	2500
		30-35	10:25	11:54				
943	945	Cement Sand [illegible]	11:54	12:26	32	125	45	30000
945	950	Cement [illegible]	12:26	1:54	1:28	125	45	30000
[illegible]	955	Cement Sand Gravel	1:[illegible]	2:50	1:56	125	45	30000
[illegible]	960	Cement Sand Gravel	12:00 [illegible] 50	12:25	125	125	55	30000
[illegible]	[illegible]	Cement Sand Gravel	12:25	12:40	15	125	55	30000
[illegible]	[illegible]	Cement Sand Gravel	12:40	12:58	18	125	55	30000
970	[illegible]	Cement Sand Gravel	12:58	1:12	14	125	55	30000
		[illegible] 30-45	1:12	1:26				
974	975	Rock	1:26	1:30	4	125	55	30000
975	980	Rock Gravel	1:30	1:52	22	125	55	30000
980	985	Rock	1:52	2:30	38	125	55	30000
985	990	Cement Sand Gravel	2:30	2:52	22	125	55	30000
990	995	Cement Sand Gravel	2:52	3:18	26	125	55	30000
[illegible]	1000	Cement Sand Gravel	3:18	4:25	67	125	55	30000
1000	1004	Cement Sand Gravel	4:25	5:00	35	125	55	30000
		Con 29-55	5:00	5:16				
1004	1005	Cement Sand Gravel	5:16	5:30	14	125	55	30000
1005	1010	Cement Sand Gravel	5:30	5:55	25	125	55	30000
1010	1015	Cement Sand Gravel	5:55	6:50	55	125	55	30000
1015	1020	Cement Sand Gravel	6:50	7:08	18	125	55	30000
1020	1025	Cement Sand Gravel	7:08	7:26	18	125	55	30000
1025	1030	Coarse Sand Clay	7:26	8:00	34	125	55	30000

Blown and Gravel
Cement Sand Gravel

Fall 1/2

REMARKS: Compressor Time Fueled up — 1:10 —

MICROFILMED

Page 9

B C & M DRILLING, INC.

1128 SOUTH LEWIS
MESA, ARIZONA 85202

DATE 9/2/[illegible]

COMPANY Motorola

NUMBER OF WELL A-81-4

NAME OF WELL Mesa Arizona

NUMBER OF BITS USED 7

BIT SIZE 26" 3 Cone

TYPE AND FEET PER BIT 956 [illegible]

DEPTH FROM	DEPTH TO	FORMATION	TIME START	TIME END	TOTAL MIN	AIR PSI COMPRES	ROTARY RPM	WEIGHT ON BIT
1030	1034	Red. Fine course with sand	8:00	8:18	18	125	55	30000
		con 30-55	8:18	8:27	Check oil and Drill			
1034	1035	Red fine course with	8:27	8:35	8	125	55	30000
1035	1040	" " " "	8:35	9:00	25	125	55	30000
1040	1045	Red fine Sand	9:00	9:25	25	125	55	30000
1045	1050	Red fine Sand	9:25	9:45	20	125	55	30000
1050	1055	Red fine Sand	9:45	10:05	20	125	55	30000
1055	1060	Red fine Sand	10:05	10:30	25	125	55	30000
1060	1064	Red fine Sand	10:30	10:50	20	125	55	30000
		con 30-75	10:50	11:08				
1064	1065	[illegible]	11:08	11:10	2	125	[illegible]	[illegible]
1065	1070	[illegible]	11:10	12:15	1:05	125	50	30000
1070	1075	Grey Sand / Gravel	12:15	1:28	1:13	125	50	[illegible]
1075	1080	Gray Hard Gravel	1:28	2:34	1:06	[illegible]		[illegible]
1080	"	Gray Hard Gravel	[illegible]	[illegible]	[illegible]	125	[illegible]	[illegible]
1085	"	Gray Hard Gravel	[illegible]	[illegible]	2:30	125	[illegible]	[illegible]
1090	" "	Gray Hard Gravel	[illegible]	[illegible]	2:00	[illegible]	[illegible]	[illegible]
		con 75-5						
1095	1100	[illegible]	[illegible]	[illegible]	[illegible]	125	[illegible]	[illegible]

REMARKS: Connection for fuel 11:45 A.M. - Formation change. 1072' Grey Sand & Gravel

MICROFILMED

Page 7

B C & M DRILLING, INC.

1128 SOUTH LEWIS
MESA, ARIZONA 85202

DATE 9/21/81

COMPANY Motorola

NAME OF WELL MESA AL

BIT SIZE 26' 3 cone

NUMBER OF WELL A-81-4

NUMBER OF BITS USED 7

TYPE AND FEET PER BIT 956'

DEPTH FROM	DEPTH TO	FORMATION	TIME START	TIME END	TOTAL MIN	AIR PSI COMPRES	ROTARY RPM	WEIGHT ON BIT
		Con. 30.75						
1064	1065	[illegible] Rock						
1065	1070	[illegible] Sand Fill						
1070	1075	[illegible] Sand/Gravel	12:15	1:28	1:13	125	50	[illegible]
1075	1080	Gray Sand/Gravel	1:28	2:34	1:06	125	50	30[illegible]
1080	1085	Gray Sand/Gravel	2:34	4:30	1:56	125	50	30[illegible]
1085	1090	Gray Sand/Gravel	4:30	7:00	2:30	125	50	30000
1090	1095	[illegible]	7:00	9:00	2:00	125	50	[illegible]
		Con. [illegible]		debating bit change				
1095	[illegible]	[illegible]	10:20	11:50	1:30	125	50	30[illegible]
11[illegible]	[illegible]	[illegible]	6:30	7:[illegible]	3[illegible]	125	50	30[illegible]
[illegible]	[illegible]	[illegible]	7:[illegible]	7:[illegible]	24	125	50	30[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	7:[illegible]	25	125	50	30[illegible]
1115	1120	[illegible]	7:[illegible]	[illegible]	20	125	50	30[illegible]
1120	1124	[illegible]	[illegible]	[illegible]	10	125	50	[illegible]
		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
[illegible]	[illegible]	[illegible] Gravel	[illegible]	9:20	5	125	50	30[illegible]
[illegible]	[illegible]	[illegible] Sand	[illegible]	9:45	25	125	50	[illegible]
[illegible]	[illegible]	[illegible]	9:15	10:[illegible]	31	125	50	30[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	11:00	44	125	50	[illegible]
[illegible]	[illegible]	[illegible]	11:00	11:35	38	125	50	[illegible]
[illegible]	[illegible]	Red Sand Rock	11:38	12:14	36	125	50	30000
1150	11[illegible]	[illegible]	12:14	12:35	21	125	50	30000
		Con. 30.15 + Sub 2.10 Red Box-Full Pin + Sub 1.10 Full Box-Reg Pin						
1154	1155	Red Sand [illegible]	2:05	2:19	14	125	50	30000
1155	1160	[illegible]	2:19	3:03	44	125	50	30000
1160	1165	[illegible]	3:03	3:44	41	125	50	30000
1165	1170	[illegible] Gravel Clay	[illegible]	4:30	46	125	50	30000
1170	1175	[illegible]	4:30	5:15	45	125	50	[illegible]
1175	1180	[illegible] Sand [illegible]	[illegible]	5:58	43	125	50	[illegible]
1180	1185	Red Sand [illegible]	5:58	6:39	41	125	50	30000
2 Subs	1187	[illegible]	[illegible]	[illegible]	10	125	50	[illegible]
		Con. 31.20	[illegible]	6:30				

REMARKS. Com[illegible] fuel - 11:40

Formation change

1155' Red Sand + Red clay Formation [illegible]

1165 [illegible]

1180 [illegible]

MICROFILMED

Page 10

b C & M DRILLING, INC.

1128 SOUTH LEWIS
MESA, ARIZONA 85202

DATE 9/22/81

COMPANY MOTOROLA

NUMBER OF WELL A-81-4

NAME OF WELL MEZA AK

NUMBER OF BITS USED 8

BIT SIZE 26" 3 CONE

TYPE AND FEET PER BIT

DEPTH FROM	DEPTH TO	FORMATION	TIME START	TIME END	TOTAL MIN	AIR PSI COMPRES	ROTARY RPM	WEIGHT ON BIT
	11							
	[illegible]			[illegible]	[illegible]	[illegible]		
[illegible]	[illegible]	[illegible]		[illegible]				
[illegible]	[illegible]	TD		[illegible]				
[illegible]	[illegible]		12:55					
[illegible]	215							
[illegible]	[illegible]							

REMARKS

MICROFILMED

File number A(1-5)19 dca Reference number 55-87443-Q

No Service Area Map

SEC. 19 TWP. 1 N RGE. 5 E

N

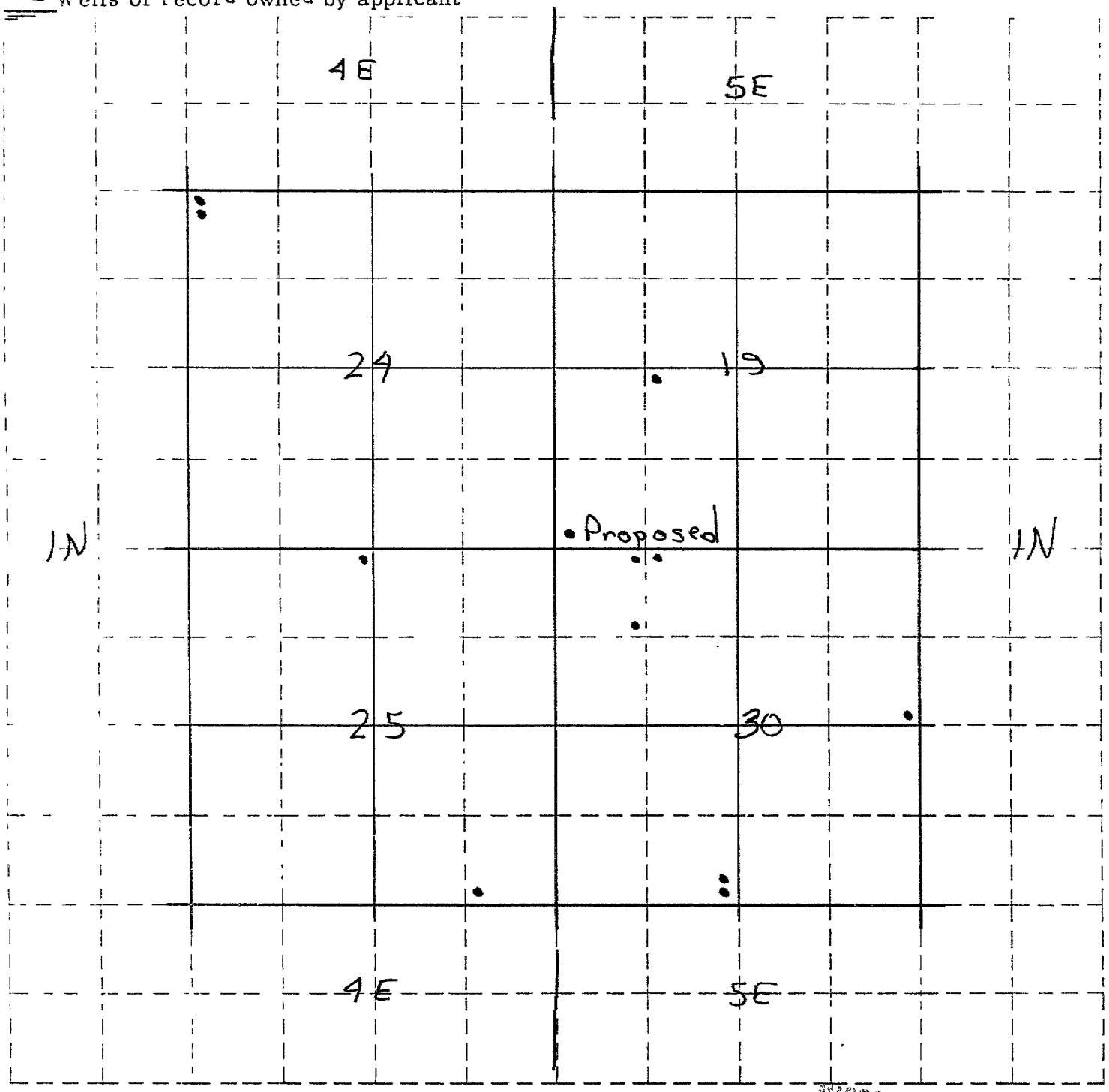
— Existing well to be replaced or suplemented

— Service area or area to be irrigated

• Wells of record owned by other than applicant

— Wells of record owned by applicant

DEPT. OF WATER RESOURCES



MICROFILMED

1 Mi = 5280'

2640' 1/2 MI | 1320' 1/4 MI | 660' 1/8 MI | 660' 1/8 MI

1 MILE -
5280 FEET
80 CHAINS
320 RODS
1760 YARDS
1609.3 METERS

1 ROD 16½ FEET
1 CHAIN = 66 FEET
1 ACRE 43560 SQ.FT.

CHAINS 0 10 20 30 40 50 60 70 80

FEET 0 1000 2000 3000 4000 5000 6000 7000 8000

File

MOTOROLA INC. Integrated Circuit Division

RECEIVED JAN 11 1982 DEP'T OF WATER RESOURCES

JANUARY 6, 1982

MR. W. DON MAUGHAN
ARIZONA DEPARTMENT OF WATER RESOURCES
99 EAST VIRGINIA AVENUE
PHOENIX, ARIZONA 85004

DEAR MR. MAUGHAN:

THIS LETTER IS TO INFORM THE DEPARTMENT OF THE CURRENT STATUS OF THE WELLS ON THE MOTOROLA MESA SITE.

AS OF 1:00 P.M. ON DECEMBER 23, 1981 . . . .

1.) WELL NO. 2 HAS BEEN COMPLETED AND MOTOROLA'S MESA PLANT BEGAN RECEIVING ITS PROCESS WATER FROM WELL NO. 2.

2.) WITHDRAWAL OF WATER FROM WELL NO. 1 HAS BEEN SUSPENDED.

SINCERELY,

Maurice Chait

MAURICE CHAIT, MANAGER
ENVIRONMENTAL COMPLIANCE

MC/DKM

CC: KARL KOHLHOFF
CITY OF MESA
55 NORTH CENTER
MESA, AZ 85201

TED WERNER
BEN FERNANDEZ
HENRI JARRAT

MICROFILMED

A(1-6)16 cab 55-500589

A(1-6)15 acd 55-500994

2200 WEST BROADWAY MESA ARIZONA 85202 - P O BOX 20906 PHOENIX ARIZONA 85036 /(602) 962 2011

011450018-1

DEPARTMENT OF WATER RESOURCES
99 East Virginia
Phoenix, Arizona 85004

JAN 1983
DEPARTMENT OF WATER RESOURCES

Registration No. 55-87443Q
Owner of
Well Site CITY OF MESA

File No. A(1-5)19dcc

COMPLETION REPORT

1. Completion Report to be filed with the Department within 30 days after installation of pump equipment.

2. The tested pumping capacity of the well in gallons per minute for a non-flowing well should be determined by measuring the discharge of the pump after continuous operation for at least 4 hours and for a flowing well by measuring the natural flow at the land surface.

3. Drawdown of the water level for a non-flowing well should be measured in feet after not less than 4 hours of continuous operation and while still in operation and for a flowing well the shut-in pressure should be measured in feet above the land or in pounds per square inch at the land surface.

4. The static groundwater level should be measured in feet from the land surface immediately prior to the well capacity test.

LOCATION OF THE WELL

T.1N., R.5E., Sec. 19, SW-1/4, SW-1/4, SE-1/4

Date Well Completed October, 1981 Depth of Well 1,207 feet

1. Well Test:
Test Pumping Capacity 3,200 (Gal. per min.) Date Well Tested October 12, 1981

Method of Discharge Measurement Orifice and Manometer
(weir, orifice, current meter, etc.)

Static Groundwater Level 220 ft. Drawdown 51 ft.
Total Pumping Lift 271 ft. Drawdown N/A lbs.
(Flowing Well)

2. Equipment Installed:

Kind of Pump Turbine, 342 ft. - 12" x 3" x 1-15/16" - Design: 2,600 g.p.m. @ 405' TDH
(turbine, centrifugal, etc.)

(1) Kind of Power Electric (Elec., Nat. Gas, Etc.) H.P. Rating of Motor 350

I HEREBY CERTIFY that the above statements are true to the best of my knowledge and belief.

Marion E. Miller
Signature
MARION E. MILLER, Vice President
Address
GILBERT PUMP & EQUIPMENT CO., INC.
4532 E. Washington Street, Phoenix, AZ 85034
City State Zip

January 6, 19 83
Date

(1) This pump was extended 300 ft. in 4/82 for experimental purposes.

DICHOFILMED

1-31-83

5-27-83

FILE # A(1-5)19 dcc 55- 87443-Q

SEC. 19 TWP. 1 N RGE. 5 E

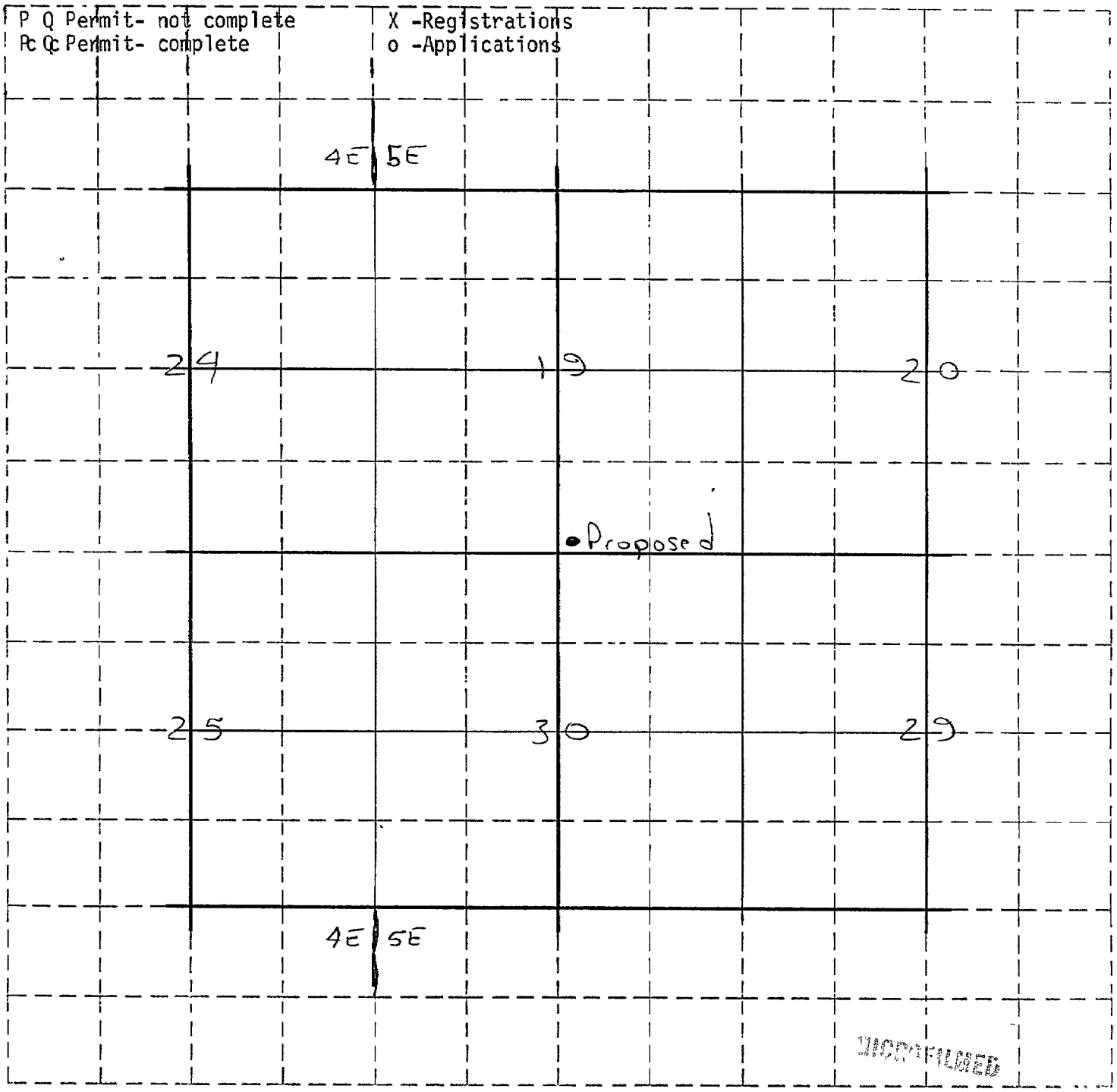
N

DEPT. OF WATER RESOURCES

____ Existing Well to be replaced or supplemented
____ Wells of record owned by applicant
____ Wells of record owned by other than applicant
____ Service area or area to be irrigated
____ (Within) (Not Within) service area

P Q Permit- not complete
Pc Qc Permit- complete

X -Registrations
o -Applications



1 MI = 5280'

2640' 1/2 MI | 1320' 1/4 MI | 660' 1/8 MI | 660' 1/8 MI

0 CHAINS 10 20 30 40 50 60 70 80

80 70 60 50 40 30 20 10 0 CHAINS

1 ROD = $16\frac{1}{2}$ FEET
1 CHAIN = 66 FEET
1 ACRE = 43560 SQ. FT.

1 MILE -
5280 FEET
80 CHAINS
320 RODS
1760 YARDS
1609.3 METERS

0 1000 2000 3000 4000 5000 6000 7000 8000 FEET

8000 7000 6000 5000 4000 3000 2000 1000 0 FEET

Karl Kohlhoff
City of Mesa
P.O. Box 1466
Mesa, Arizona 85201

STATE OF ARIZONA
ARIZONA WATER COMMISSION
WATER RIGHTS ADMINISTRATION
222 N. CENTRAL AVE — SUITE 550
PHOENIX, ARIZONA 85004

MICROFILMED

RECEIPT — FILE

KIND ENTRY	FILE REFERENCE NO.
55	87443 Q
	THRU

№ 7753

FUND SOURCE	ACCOUNT NO. AGENCY	CHAPTER	DIV.	INT. ACCT.	ITEM DESCRIPTION	RATE	$ AMOUNT
					Filing Fee for Application for A Permit for a Non-Exempt New Well in a Active Management Area Water Rights (GW)		8.00 ~~10.00~~ XXXXX
					File No: A(1-5)19 dcc		
					Registration No: 55-87443		
					Permit No: Q-87443		
					Cash		

WRITER PAYMENT

GUESTS	1
CHK NO	0
55-P	8.00
TAX	0.00
TOTL	8.00
GEN.CASH	8.00

29 A 13:17

4/3/81

TOTAL $ 8.00 ~~XXXXX~~

mw