

P E R M I T

PERMIT NO. Q- 500994

STATE OF ARIZONA )  
 )  
COUNTY OF MARICOPA )

FILE NO A(1-6)15 acd  
REGISTRATION NO. 55-500994

This is to certify that I have examined the foregoing application and have determined that the well described will not unreasonably damage the surrounding land or other water users due to a concentration of wells. I grant to the applicant a permit to construct a new well by a city, town, private water company or an irrigation district, or to construct a replacement well in a new location. This permit does not grant to Applicant the right to irrigate any acres which are not so eligible pursuant to A.R.S. §45-452(A). 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 the well is abandoned, it shall be abandoned 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 1 N Range 6 E Section 15, SE 1/4 SW 1/4 NE 1/4

Depth 1,000 Feet Diameter 20 Inches Casing Type Perforated Steel

Maximum pumping capacity 2,000 gallons per minute

Authorized use of groundwater Municipal Use. The increased need of the City to supply its growing number of customers.

\*Land that withdrawn water will be used upon:

Township 1 N Range 6 E Within the Service Area of the City.

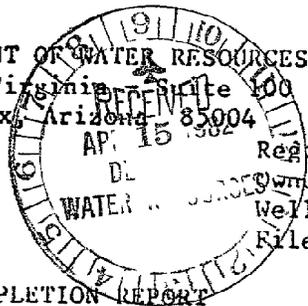
Witness my hand and seal of office this day of 29<sup>th</sup> of Sept, 1981

*W. Don Maughan*  
W. Don Maughan Deputy Director

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~~The granting of this permit represents a determination only that the well herein described is located so as not to unreasonably damage surrounding land or water users. The 1980 Groundwater Management Act (Title 45, Chapter 2, Arizona Revised Statutes) strictly regulates all withdrawals and uses of groundwater within Active Management Areas. The Applicant is expressly put on notice that should he not be issued a certificate of grandfathered right pursuant to A.R.S. §45-481 for the lands herein described, that the irrigation of these lands by Applicant will be in violation of A.R.S. §45-451(A) and §45-452(A).~~

DEPARTMENT OF WATER RESOURCES  
99 East Virginia Avenue  
Phoenix, Arizona 85004



Registration No. 55-500589  
City of Mesa  
File No. A(1-6)10-ecb  
15 acd

COMPLETION REPORT

1. A Completion Report is 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 four 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 four hours of continuous operation and while still in operation and for a flowing well the shutin 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 surface immediately prior to the well capacity test.

LOCATION OF THE WELL:

SE SW NE  
15  
Sec. 10, Twp 1N, Rge 6E

Date well completed \_\_\_\_\_ Depth of well 1200'

1. Well Test:

Test pumping capacity 2,021 Date well tested November 16, 17, 18, 1981  
(Gallons per minute)

Method of discharge measurement Orifice  
(Weir, orifice, current meter, et cetera)

Static groundwater level 483' Feet drawdown 40.8 feet

Total pumping lift 533.8' Feet drawdown 94.2 pounds

2. Equipment Installed: (flowing well)

Kind of pump \_\_\_\_\_  
(Turbine, centrifugal, et cetera)

Kind of power \_\_\_\_\_ Horse power rating of motor \_\_\_\_\_  
(Electric, natural gas, et cetera)

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

David Bowen  
Signature David Bowen, District Manager  
9002 S. Hardy Drive  
Tempe, AZ 85284  
Address \_\_\_\_\_

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November 23, 19 81  
Date \_\_\_\_\_

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

DEPARTMENT OF WATER RESOURCES  
222 N. Central Ave., Suite 550  
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.
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.

NAME OF APPLICANT City of Mesa  
P.O. Box 1466, Mesa, Arizona 85201 834-2011  
(Mailing Address, City, State, Zip Code) Telephone Number

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

II. GENERAL DATA ON PROPOSED WELL:

1. Location of well SE 1/4 SW 1/4 NE 1/4 of Sec. 15 Twp. 1 N Rge. 6E  
2. Owner of well: City of Mesa  
Name City of Mesa  
Address 55 North Center Street  
Mesa, Arizona 85201  
City Mesa State Arizona Zip 85201  
Telephone No. 834-2257  
3. Owner of Land: City of Mesa  
Name City of Mesa  
Address 55 North Center Street  
Mesa, Arizona 85201  
City Mesa State Arizona Zip 85201  
4. Place of use of withdrawn water: None  
-- 1/4 -- 1/4 -- 1/4 of Sec. --  
-- Twp. 1N Rge. 6E  
(Legal Subdivision Description)  
5. Diameter 20-Inch  
6. Depth 1,000 Feet  
7. Type of casing: Perforated Steel  
8. Principle use of water: Municipal Use  
9. Other intended uses: None  
10. Name and address of drill: Layne-Western  
Name 9002 S. Hardy Dr.  
Tempe, AZ 85284  
Address 034348-001 C53  
Department License No. 11. Construction will start about: October, 1981  
12. Design pump capacity: 2,000 G.P.M.  
13. Claim of entitlement to withdraw groundwater pursuant to Article 5 or 6 of the Code is based on the following facts: The increased need of the City to supply its growing number of customers.

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? Municipal Customers  
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: 1/4 1/4 1/4 of Sec. --- Twp. --- Rge. ---  
(10 acre subdivision)  
2. Owner of land of original well: N/A  
Name N/A  
Mailing Address N/A

DO NOT WRITE IN THIS SPACE  
OFFICE RECORD  
Application No. 55-500994 Q  
(Registration)  
Permit No. Q-500994  
File No. AC1-6215 add  
Filed 9/16/81 By m  
Input 9-22-81 By Pat  
Duplicate Mailed 9/29/81 By PAK  
AMA Phoenix

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1. 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. \_\_\_\_\_  
\_\_\_\_\_  $\frac{1}{4}$  \_\_\_\_\_  $\frac{1}{4}$  \_\_\_\_\_  $\frac{1}{4}$  \_\_\_\_\_  
(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:

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

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, Peter L. Peterson, 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. 45-505.

September 15, 1981  
 Date

*Peter L. Peterson*  
 Signature of Applicant

ENDORSEMENT NO. 1

Application is

- Rejected
- Returned for: Completion \_\_\_\_\_
- Correction \_\_\_\_\_
- Other \_\_\_\_\_
- Approved for Receipt

81 SEP 16 P1 4  
 REC  
*P. Peterson*  
 9/21/81

ENDORSEMENT NO. 2

Application is

- Rejected
- Returned for: Completion \_\_\_\_\_
- Correction \_\_\_\_\_
- Other \_\_\_\_\_
- Approved for Receipt

STATE OF ARIZONA

DEPARTMENT OF WATER RESOURCES

WELL DRILLER REPORT



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

1. Owner CITY OF MESA Name P.O. Box 1466 Mesa, AZ 85201 Address

2. Lessee or Operator Layne-Western Company, Inc. Name Address

3. Driller Layne-Western Company, Inc. Name 9002 S. Hardy Drive, Tempe, AZ 85284 Address

4. Location of well: SE SW NE NW, SW, SW of Sec. 15, Twp 1N, Rge 6E

5. Permit No. Q-500589 (if issued)

DESCRIPTION OF WELL

6. Total depth of hole 1202.1 ft.

7. Type of Casing Steel

8. Diameter and length of casing 18 in. from 0 to 1202.1, in from to

9. Method of sealing at reduction points

10. Perforated from 1198.1 to 1157.8, from 1097.8 to 1057.5, from 912.5 to 698

11. Size of cuts 1/8 X 3 Number of cuts per foot 40

12. If screen was installed: Length 200 ft. Diam 18 in. Type #100 Hvcap

13. Method of construction Drilled drilled, dug, driven, bored, jetted, etc.

14. Date started 10 21 81 Month day year

15. Date completed 11 02 81 Month day year

16. Depth to water 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:

DO NOT WRITE IN THIS SPACE OFFICE RECORD Registration No. 55-500589 500994 Received By Entered By File No. A(1-6)10 ccb 15 acd

(Well log to appear on Reverse side)

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File number A(1-6) 15 a c d

Reference number 55-500994-Q

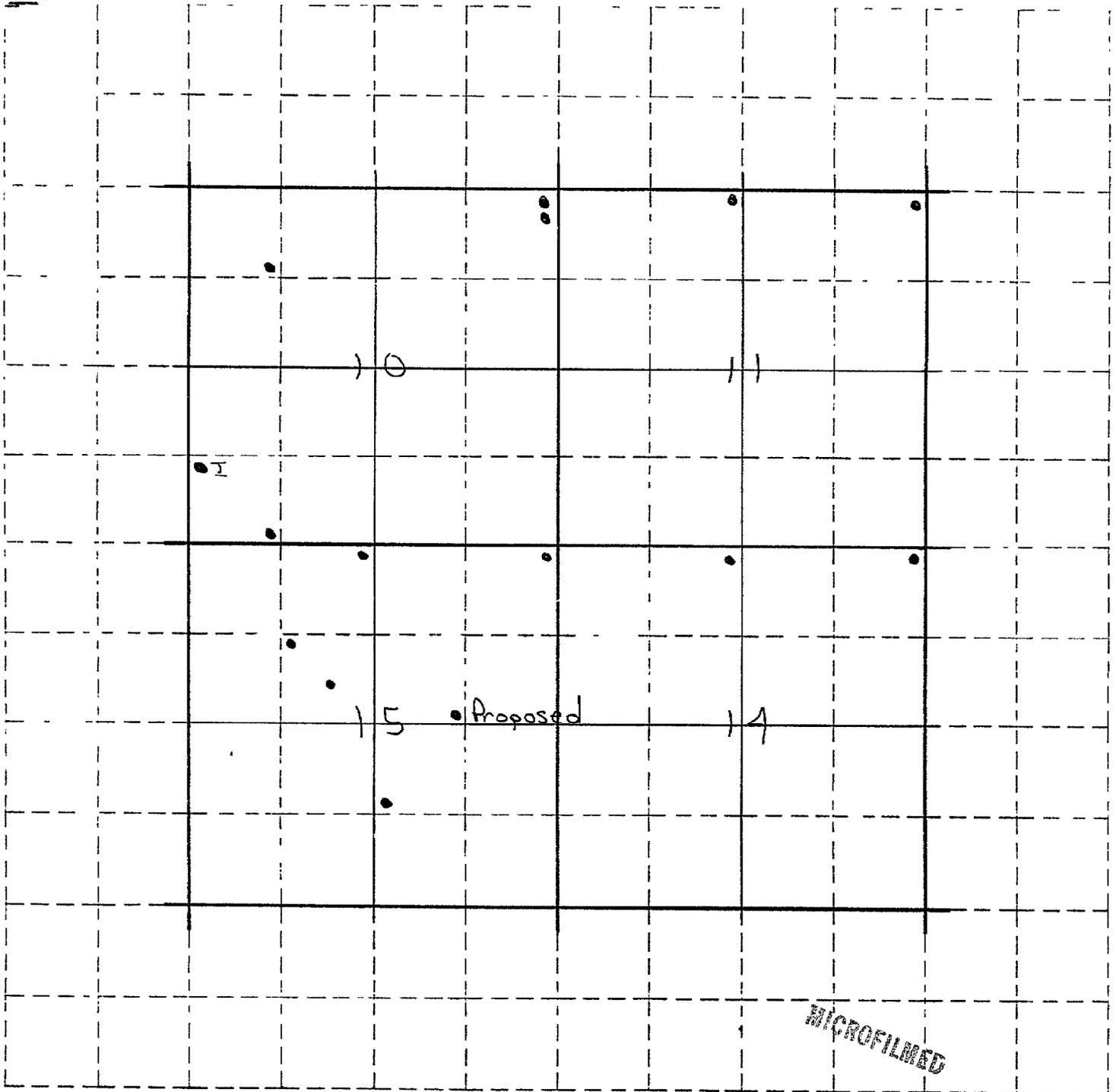
SEC. 15 | TWP. 1N  
| RGE. 6E  
N

Existing well to be replaced or supplemented

Service area or area to be irrigated

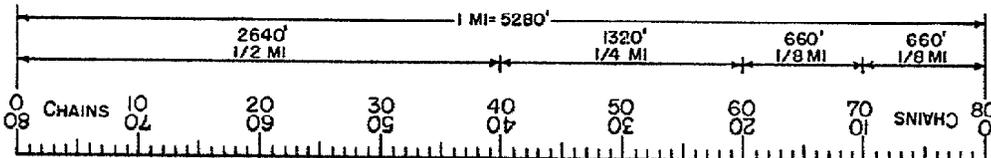
- Wells of record owned by other than applicant
- Wells of record owned by applicant

DEPT. OF WATER RESOURCES

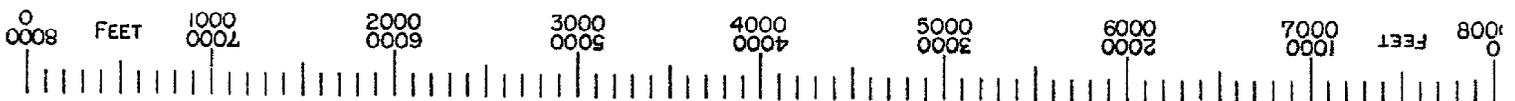


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1-ROD = 16 1/2 FEET  
 1-CHAIN = 66 FEET  
 1-ACRE = 43560 SQ.FT.



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





CITY OF MESA  
ARIZONA

September 14, 1981

Department of Water Resources  
Suite 850  
222 North Central Avenue  
Phoenix, Arizona 85004

Attention Mr. Vern Doyle

Subject: City of Mesa Well; Section 15, Township One North, Range Six East

Gentlemen:

Last February I sent you a letter requesting information on the possibility of drilling a well in the above area. You sent us a favorable response a month later, but I informed you that we had decided to acquire a site a mile to the north.

We have recently obtained a site in Section 15 and we are now applying for the permit to drill a well.

Hopefully, this is not too confusing, but if any questions arise I would be pleased if you would call.

Sincerely,

  
WILLIAM F. MCCARTHY  
Engineer

jh

Enclosure

1. Well Permit Application
2. Check for \$8.00

xc: Harry Kent  
Pete Peterson  
Jim Gaetjens  
Ralph Wisz  
Bruce Crandall

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*Thomas*



**Layne-Western Company, Inc.**

A Muley Company

9002 South Hardy/Tempe, Arizona 85284/Telephone 602/893 3664

December 3, 1981

Department of Water Resources  
99 E. Virginia, Suite 100  
Phoenix, AZ 85004

Attention: Ron Thomas

Reference: City of Mesa - Permit #500589 and #500994

Dear Mr. Thomas:

This is to advise the log for the above captioned well was put on the wrong file number and registration number. Permit #500994 is correct and the information should be transferred to that permit number and #500589 should be cancelled.

If you should have any questions, please call our office.

Very truly yours,

LAYNE-WESTERN COMPANY, INC.

*David Bowen*

David Bowen  
District Manager

DB/lt

cc: Bill McCarthy  
City of Mesa

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WATER SUPPLY SERVICES

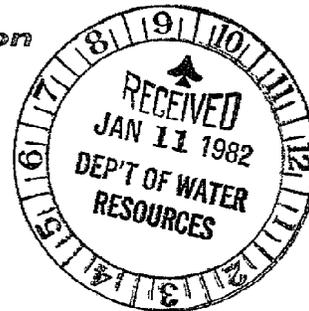
244 6900 file

MOTOROLA INC.



Integrated Circuit Division

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

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*AC(1-6)10 cab  
- 5-15-89*

*AC(1-6)15 cab  
55 - 5-15-89*



CITY OF MESA

ARIZONA



April 13, 1982

Department of Water Resources  
Water Rights Administration  
99 E. Virginia Ave.  
Phoenix, AZ 85004  
Attn: Mr. Gessner

Subject: Falcon Well #7  
Project No. 80-41  
D.W.R. No. A 010 060 15 A C D WR 500994

Gentlemen:

The log for this well is attached. The file number which this was sent under is inaccurate. The correct number is the one above. The other registration number (55-500589) is for a location (NW 1/4, SW 1/4, SW 1/4, Sec. 10, Twp 1N, Rge 6E) of a well which the City has not drilled and has no intention of drilling for awhile. The City has labled that well Falcon Well #6.

When the equipment is installed and Well #7 is complete the City will furnish a complete and accurate description of the pump equipment. The problem the City is presently encountering is filling the well to the 1000 foot level and then retesting. As soon as this has been completed the report will be filed.

Yours truly,

William F. McCarthy  
Project Engineer

WFM:id

Enc: Well Driller Report

xc: Ralph Wisz  
Jim Gaetjens  
Layne Western  
Paul Manera

UNRECORDED





CITY OF MESA  
ARIZONA



April 14, 1983

Department of Water Resources  
99 East Virginia Avenue  
Phoenix, Arizona 85004

ATTN: Mr. Richard A. Gessner

SUBJECT: City of Mesa, Falcon Well No. 7  
Number A 010 060 15 ACD WR 500994

Gentlemen:

The City of Mesa has not submitted a completion report because we basically have not determined what we are going to do with the well.

The reason no equipment has been installed is due to a quality problem with the water in the well. It is above the limits in fluoride. For this reason the City has not determined whether to abandon the well, attempt to plug the fluoride bearing strata, or to exchange this well with an irrigation well with better water quality.

When the City makes the final determination we will inform the Department.

Yours truly,

  
William F. McCarthy  
Engineer

WM:jh

xc: Harry Kent  
Ralph Wisz  
Jim Gaetjens  
George Small

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CITY OF MESA  
ARIZONA



October 7, 1982

Department of Water Resources  
99 East Virginia Avenue  
Phoenix, Arizona 85004

Attention Mr. Richard A. Gessner

Subject: City of Mesa, Falcon Well No. 7  
Number A 010 060 15 ACD WR 500994

Gentlemen:

The City of Mesa has not submitted a completion report because we basically have not determined what we are going to do with the well. The enclosed report shows essentially everything filled out, but the equipment installed.

The reason no equipment has been installed is due to a quality problem with the water in the well. It is above the limits in fluoride. For this reason the City has not determined whether to abandon the well, attempt to plug the fluoride bearing strata, or to exchange this well with an irrigation well with better water quality.

When the City makes the final determination we will inform the Department.

Yours truly,

*William F. McCarthy*  
WILLIAM F. MCCARTHY  
Engineer

jh

Enclosure

1. Completion Report

xc: Harry Kent  
Ralph Wisz  
Jim Gaetjens  
George Small

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Section Chief Marge Watson

Date \_\_\_\_\_ C.E. \_\_\_\_\_

Routed to Branch on \_\_\_\_\_ by \_\_\_\_\_

Date \_\_\_\_\_ C.E. \_\_\_\_\_

Date \_\_\_\_\_ C.E. \_\_\_\_\_

Date \_\_\_\_\_ C.E. \_\_\_\_\_

APPLICATION A(1-6)15 acd FOR New Well FILED 9/16/81  
55-500994 (Surface Water, Replacement Well  
C.of Mesa Groundwater Withdrawal Permit)

1. FACTS: Use: Municipal  
c No apparent concentration of wells  
GPM: 2,000

2. SECTION CHIEF COMMENTS: Ready for IPR

3. I have referred this application to the following divisions and branches for coordination:  
 Hearing Branch by \_\_\_\_\_ on \_\_\_\_\_  AMA Division by \_\_\_\_\_ on \_\_\_\_\_  
 Legal Section by \_\_\_\_\_ on \_\_\_\_\_  Hydrology Division by \_\_\_\_\_ on \_\_\_\_\_

4. I, Dick Homer, have studied the foregoing application and find the following facts favorable and unfavorable to the approval of that application:

<u>Favorable and for approval</u>	<u>Unfavorable and against approval</u>
<u>New well by City of Mesa</u>	_____
<u>No apparent well concentration</u>	_____
<u>Proposed well in service area of City of Mesa</u>	_____
_____	_____
_____	_____
_____	_____

5. I recommend this application be: AS  
a. Approved  for a period of N/A years with the following conditions:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

b. Denied  because \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

6. IPR Committee Findings:  
a. We agree with recommendations in No. 5 except: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

B. We disagree with recommendations in No. 5 because: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

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Review Chairman: [Signature] Date 9/16/81 Members Present: \_\_\_\_\_

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

STATE OF ARIZONA  
DEPARTMENT OF WATER RESOURCES  
WATER RIGHTS ADMINISTRATION  
99 EAST VIRGINIA  
PHOENIX, ARIZONA 85004

RECEIPT - FILE

No 10396

KIND ENTRY	FILE REFERENCE NO
55	500994 Q
	THRU

FUND SOURCE	ACCOUNT NO.			INT. ACCT.	ITEM DESCRIPTION	RATE	\$ AMOUNT
	AGENCY	CHAPTER	DIV.				
					Filing Fee for Application for a Permit for a New Well in a New Location in Active Management Area		8.00
					Water Rights (GW)	WATER PAYMENT GUESTS 1 CHK NO 68885 55-P 8.00 TAX 0.00 TOTL 8.00 GEN.CHEK 8.00	
					File No:	# 6140 A	8.00
					Registration No: 55-500994		
					Check # MC 68885		

9/16/81

TOTAL

\$

8.00

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HW