

REPORT OF WELL DRILLER

This report should be prepared by the driller in all detail and filed with the State Land Commissioner following completion of the well.

1. OWNER Maricopa County Parks and Recreation Dept.
Name
 4701 East Washington Street, Phoenix, AZ 85034
Address
2. Lessee or Operator
Name
Address
3. DRILLER Roscoe Moss Company
Name
 4360 Worth Street, Los Angeles, California 90063
Address
4. Location of well: Twp. 1N Ege. 7E Section 18 Spook Hill Recreation Area, AZ
SW 1/4 SW 1/4 NE 1/4
16-acre subdivision
5. Intention to Drill File No. Permit No.

DESCRIPTION OF WELL

6. Total depth of hole 1041' ft.
7. Type of casing Mild Steel
8. Diameter and length of casing 16 in. from 1060 to , in. from to , in. from to
9. Method of sealing at reduction points
10. Perforated from 650' to 1000', from to , from to , from to
11. Size of cuts 5/8" x 3" Number of cuts per foot 8
12. If screen was installed: Length ft. Diam. in. Type
13. Method of construction Drilled drilled, dug, driven, bored, jetted, etc.
14. Date started 10/27/80
Month Day Year
15. Date completed 06/18/81
Month Day Year
16. Depth of water 601' 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	
<i>P-500 permit filed 8/14</i>	
Received	by
Filed <i>2-22-82</i>	by <i>[Signature]</i>
File No. <i>A(1-7)18acc</i>	
<i>55-500714</i>	

REG. PERMIT # P-500714

(Well Log to Appear on Reverse Side)

UNRECORDED

2-22-82
[Signature]

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
0	12	Top soil
12	72	Caliche
72	116	Gravelly clay
116	180	Clay and gravel
180	200	Clay, sand, gravel
200	205	Large gravel, sand, clay
205	222	Sm. boulders, gravel, sandy clay
222	240	Boulders, gravel & clay
240	305	Boulders & clay
305	322	Boulders & clay (hard dry)
322	375	Boulders & clay (hard dry) some sandy strips
375	380	Sandy clay
380	388	Hard conglomerate
388	405	Hard conglomerate, boulders, cemented sand, clay dry
405	420	Hard boulders cemented
420	435	Hard strips 2' to 3', softer strips 3', gravelly clay
435	442	Hard cemented boulders
442	460	Hard cemented boulders
460	462	Cemented boulders
462	478	Clay, sand, boulders tight dry
478	500	Clay sml. rock
500	514	Clay trace of gravel
514	542	Clay trace of gravel, no water
542	545	Clay
545	555	Broken rock, sandy clay, soft stony form
555	586	Sandy clay hard dry
586	602	Hard dry clay, sml. boulders, sand pack hard like stone
602	615	Dry hard clay, sand like stone, sml. boulders
615	630	Hard conglomerate
630	640	Conglomerate getting harder
640	655	Conglomerated rocks
655	690	Conglomerated rocks and granite
690	710	Conglomerate rock and gravel strips
710	730	Conglomerate hard strips
730	745	Conglomerate with clay tight
745	757	Conglomerate with clay
757	765	Clay gravel some sand
765	773	Hard conglomerate rock abrasive
773	775	Hard conglomerate
775	790	Some conglomerate tight abrasive
790	805	Hard conglomerate rock abrasive
805	820	Conglomerate rock tight abrasive
820	821	Conglomerate rock tight abrasive
821	826	Gravel hard rock
826	832	Hard rock, gravel tight
832	834	Granite
834	848	Broken granite
848	865	Solid granite
865	882	Conglomerate, some sand
882	930	Conglomerate
930	943	Conglomerate broken up
943	945	Rock loose, some sand
945	948	Tight rock, some sand
948	960	Broken rock, some sand, trace of clay
960	980	Hard rock some quartz
980	1041	Hard rock

RESOURCES
WATER

82 FEB 19 P2:09

ARIZONA
DEPT OF

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.

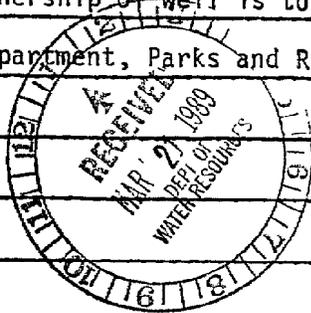
Driller Roscoe Moss Company
Name
4360 Worth Street, Los Angeles, CA
Address 90063

Date . 6-18-81

CHANGE OF WELL INFORMATION

Registration Number 55- 500714 and 59-500714

I request the following information be changed in Well File Number A(1-7)18 acc.
That the ownership of well is to be transferred to the City of Mesa, Community Services Department, Parks and Recreation Division for their use of this well.



3/21, 1989
Date

Joe J. Sharp
Signature of well owner

STATEMENT OF CHANGE OF WELL OWNERSHIP

I, Maricopa County Parks & Rec. Dept. state that I am ~~(no longer)~~ the (new) owner of the well described below:

Township 01N Range 07E Section 18, SW $\frac{1}{4}$ SW $\frac{1}{4}$ NE $\frac{1}{4}$.

Registration No. 55- 500714 File No. A(1-7) 18 acc

Maricopa County Parks & Rec. Department
Previous owner

City of Mesa
Community Services Department
Parks & Recreation Division
New Owner

3355 West Durango Street
Address

125 North Hobson
Address

Phoenix, Arizona 85009
City State Zip

Mesa Arizona 85203
City State Zip

Attention: Joseph H. Holmwood
Park & Recreation Director

NOTE: ARS 45-594 requires that the Department be notified of change of well ownership and that the well owner is required to keep the Department's well registration records current and accurate. Well data and ownership changes must be submitted within 30 days after changes take place.

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ENTERED APR 10 1989

P E R M I T

PERMIT NO. P- 500714

FILE NO. A(1-7)18 acc

REGISTRATION NO. 55-500714

STATE OF ARIZONA }
County of MARICOPA } ss.

This is to certify that I have examined the foregoing application and have determined that the applicant is entitled to withdraw groundwater in an Active Management Area pursuant to Article 7 of the Groundwater Management Act of 1980. By this examination, the Department has determined that the General Industrial Use well is necessary to meet the water requirements of the applicant for commercial purposes. Under the terms set forth in Section 45-515, Arizona Revised Statutes, I hereby grant to the applicant a permit to withdraw groundwater for General Industrial Use, subject to the following limitations and conditions:

Applicant Maricopa County Parks and Recreation Dept., 4701 E. Washington, Phoenix, AZ 85034

Active Management Area Phoenix Subbasin East Salt River Valley

Location of Well: Township 1N Range 7E Section 18, SW 1/4 SW 1/4 NE 1/4.

Depth 1060 Feet Diameter 16 Inches Type of Casing Mild Steel

Maximum pumping capacity 1450 gallons per minute.

Authorized use of groundwater A General Industrial Use for Watering Grass, Shrubs and Trees on Golf Course and Recreation Areas.

Land groundwater will be used upon:

Township 1N Range 7E Section 17, NW 1/4, NE 1/4, 18, NE 1/4, 8, S 1/2.

Total amount of groundwater to be withdrawn 1,478.59 acre feet/year.

Duration of permit: From February 19, 1982 to February 19, 2002.

Special conditions of the permit: If during the life of the permit, the Director determines that uncommitted Municipal and Industrial Central Arizona Project Water is available or other water or effluent of adequate quality is available at a cost comparable to groundwater, the Director may require the permittee to use such water in lieu of groundwater.

Witness my hand and seal of office this 19th day of February, 1982.

W. Don Maughan
W. Don Maughan
Deputy Director

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ROSCOE MOSS CO.
4360 Worth St., Los Angeles 63, Calif.

WELL TEST REPORT

Customer Maricopa County Parks and Recreation Dept. Date 06-18-81

Address 4701 E. Washington Street, Phoenix, AZ 85034

Well No. or Name Spook Hill Recreation Area

Location Spook Hill

TEST RESULTS.

Note. Pump at least one hour or until well has stabilized for each flow.

	Beginning of Development	FINAL TEST				
		High	Second	Third	Fourth	Low
GPM	290	1490	1000	585		
Pumping level	604	612	609	605		
Static level	600	600	600	600		
Draw-down	4	12	9	5		
Specific yield	72.5	124.1	111.1	117.0		
Pump RPM	1500	1830	1780	1650		

Static Level after completion of test (5 minute recovery) 600 feet.

Total pumping time 31 hours.

Pumping Equipment used: BEPP

Pump Bowls: Nominal Diam 14 inches. R. M. Co. serial no ---

Column diam 10 in. Shaft diam. 2-3/16 in. Tubing diam. 3-1/2 in.

Depth of setting to top of bowls 845 feet. Pump pulley diam. --- in.

Engine: Manufacturer GMC Model no. 6-110 & V16 R. M. Co. Serial no. 6&10

Total fuel consumed 880 gallons. Total oil consumed 3 gallons.

REMARKS Water temperature in well was 96° at 1490 GPM

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Cindy Wilson
OPERATOR.

ARIZONA DEPARTMENT OF WATER RESOURCES

C O N V E Y E D P E R M I T

PERMIT NO. 59-500714.0001

STATE OF ARIZONA)
) ss.
County of Maricopa)

This is to certify that I have examined Application No. 59-500714.0001 and have determined that it meets the requirements of Title 45, Chapter 2, Article 7, Arizona Revised Statutes, for a General Industrial Use Permit. The Department hereby grants a permit to the applicant to withdraw groundwater for a general industrial use, subject to the following limitations and conditions:

Applicant: City of Mesa, Community Services Department, Parks and Recreation Division, 125 North Hobson, Mesa, Arizona 85203

Active Management Area: Phoenix Subbasin: East Salt River Valley

Authorized Well:

Registration No. 55-500714 File No. A(1-7)18 acc
Depth: 1,060 feet Diameter: 16 inches Casing: steel
Maximum pump capacity: 1,450 gallons per minute

Total amount of groundwater to be withdrawn: 1,478.59 acre feet per annum

Authorized use of groundwater: for watering grass, shrubs and trees on golf course and recreational areas

Land groundwater will be used upon:

Within the NW $\frac{1}{4}$, Section 17; the NE $\frac{1}{4}$, Section 18; and, the S $\frac{1}{2}$, Section 8, Township 1 North, Range 7 East, G&SRB&M.

Duration of permit: From March 23, 1989 to February 19, 2002

Conditions of the permit:

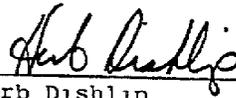
- ° If during the life of the permit, the Director determines that uncommitted municipal and industrial Central Arizona Project water is available of other water or effluent of adequate quality is available at cost comparable to groundwater, the Director may require the permittee to use such water in lieu of groundwater.
- ° The Director maintains continuing jurisdiction over this

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PERMIT NO. 59-500714.0001

permit and may modify the conditions of the permit as necessary to conform to the applicable conservation requirements and monitoring and reporting requirements prescribed in any subsequently adopted management plan for the Active Management Area in which the well used to withdraw groundwater pursuant to this permit is located.

Witness my hand and seal of office this 23rd day of March, 1989.



Herb Dishlip
Deputy Director

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ARIZONA DEPARTMENT OF WATER RESOURCES
OPERATIONS DIVISION
15 SOUTH 15TH AVENUE
PHOENIX, ARIZONA 85007

CHANGE OF WELL INFORMATION

Well Registration No. 55- 5007114 File No. A-1-7-18 ACC
(location)

I/We request the following well information be changed: The City of Mesa
requests that the registered well designation be changed from a production
well to a monitor well.

Date: 9/9/93 Signature of Current Well Owner [Signature]
City Engineer

(DO NOT CUT THIS FORM IN HALF)

STATEMENT OF CHANGE OF WELL OWNERSHIP

I, _____, state that I am (no longer) the (new)
(please print)
owner of the well described below:

1/4 1/4 1/4; Section _____ Township _____ Range _____
10 acre 40 acre 160 acre

Well Registration No. 55- _____ File No. _____
(location)

PRINT Previous Owner's Name _____

PRINT New Owner's Name _____

Address _____

Address _____

City _____ State _____ Zip _____

City _____ State _____ Zip _____

Dated: _____ Signature of New Owner _____

NOTE: A.R.S. §45-593.C. requires that the Department be notified of change of well ownership and that the well owner is required to keep the Department's Well Registration records current and accurate. Well data and ownership changes must be submitted within thirty (30) days after changes take place.

SAVE THIS FORM TO REPORT FUTURE CHANGES IN OWNERSHIP, CHANGES IN ADDRESS, OR CHANGE IN WELL DATA SUCH AS PUMP CAPACITY, CORRECTION OF LEGAL DESCRIPTION, CHANGE OF WELL DRILLER AND AMENDING INFORMATION PREVIOUSLY FILED.

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ARIZONA
DEPARTMENT
OF WATER
RESOURCES

Rose Mofford, Governor
N W Plummer
Director

15 South 15th Avenue
Phoenix, Arizona 85007

April 25, 1989

Joseph H. Holmwood, Director
Parks and Recreation
City of Mesa
Community Services Department
125 North Hobson
Mesa, Arizona 85203

Dear Mr. Holmwood:

On March 21, 1989, in conjunction with Maricopa County Parks and Recreation Department, a Change of Well Information form was filed requesting a change of well ownership on Well Registration No. 55-500714 and on General Industrial Use Groundwater Withdrawal Permit No. 59-500714.

This Department took action to honor the request on March 23, 1989 by changing the record of well ownership in our active well registry from the County to your City and by issuing a conveyed Permit No. 59-500714.0001. We sent you the conveyed permit by letter of transmittal, dated March 23, 1989. The permit authorized the withdrawal of 1,478.59 acre feet per annum for the purpose of operating a golf course and recreational areas.

In taking this action the Department erred. Pursuant to A.R.S. §45-491.A., a city in an active management area may withdraw groundwater only pursuant to Article 6, or pursuant to a poor quality or hydrologic testing permit. A city may not withdraw groundwater on the basis of a general industrial use permit. Therefore, this Department had no authority under the statutes to issue the general industrial use groundwater withdrawal permit to the City of Mesa. Mesa may not withdraw groundwater pursuant to the permit. The conveyance from Maricopa County Parks and Recreation Department is null and void.

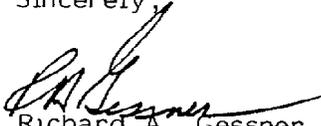
We did review the service area map of the City's service area on file in this Department, and conclude that the Spook Hill area is surrounded by the City's operating distribution system in Sections 8, 17 and 18, Township 1 North, Range 7 East. While you will be the best judge of the situation there, we see numerous water mains which may well serve the entire recreation area. You may withdraw water pursuant to your service area right for this service.

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Joseph J. Holmwood, Director
Page two
April 25, 1989

We regret this inappropriate action on our part and any inconvenience which it may cause. We request your written confirmation and acknowledgment of the above to include your understanding that the conveyance from the Parks and Recreation Department is void and that Mesa must utilize some other right to withdraw groundwater.

Sincerely,



Richard A. Gessner
Chief, Operations Division

RAG:kw

cc: Bill Bates, City of Mesa
Maricopa County Parks and Recreation
Phoenix Active Management Area

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March 23, 1989

ARIZONA
DEPARTMENT
OF WATER
RESOURCES

City of Mesa
Community Services Department
Parks and Recreation Division
125 North Hobson
Mesa, Arizona 85203

Rose Mofford, Governor
N W Plummer
Director

15 South 15th Avenue
Phoenix, Arizona 85007

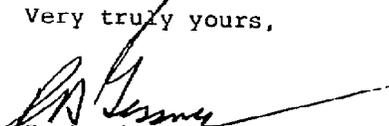
RE: Permit to Withdraw Groundwater for General Industrial Use
No. 59-500714.0001

Dear Permittee:

Enclosed for your records is your permit as referenced above.

For your future use, a Change of Well Information form is also enclosed. Under Arizona Revised Statutes §45-592, the person to whom a well is registered must notify this Department of a change in the ownership of the well and must furnish this Department with any information pertaining to the physical characteristics of the well necessary to keep the well registration records current and accurate. The permit itself may only be conveyed in accordance with A.R.S. §45-520.

Very truly yours,


Richard A. Gessner
Chief, Operations Division

RAG:kw

Enclosures

cc: Dennis Kimberlin, Phoenix AMA

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State of Arizona

DEPARTMENT OF WATER RESOURCES

99 E Virginia Avenue, Phoenix, Arizona 85004



February 19, 1982

BRUCE BABBITT, Governor
WESLEY E. STEINER, Director

Maricopa County Parks and
Recreation Department
4701 E. Washington Street
Phoenix, Arizona 85034

Registration No. 55-500714

Dear Well Owner:

Enclosed is a copy of your permit for your records. ~~Your driller has been mailed a Well Drilling Card, Well Drilling Report, and a Completion Report.~~

~~ARS 45-600 requires the driller to furnish this Department a complete and accurate log of the well within 30 days of completion of drilling, and a Completion Report within 30 days after installation of pumping equipment.~~

Also enclosed for your future use is a Change of Well Information Form. Per ARS 45-593, the person to whom a well is registered shall notify this Department of a change in ownership of the well and information pertaining to the physical aspects of the well to keep the well registration record current and accurate.

~~In the event it is necessary to change the location of the proposed well, you should obtain the written permission of the Department of Water Resources before proceeding with the drilling.~~

Sincerely,

Richard A. Gessner
Chief, Operations Branch

RAG

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Think Conservation!

Office of Director 255-1554

Administration 255 1550, Water Resources and Flood Control Planning 255 1566, Dam Safety 255-1541,
Flood Warning Office 255-1548, Water Rights Administration 255 1581, Hydrology 255-1586.

DATA ENTRY

Add _____ Change X Cancel _____

55- 500714 File # _____

Name _____

Address _____

In Care of _____

AMA _____ SB _____ Wtr Shed _____

Well Type _____ County _____

Owner _____

Water Use _____ Well Use _____

Issued _____ Driller # _____

Pump Capacity _____ Log _____

Crt _____ PQ# _____

IPQ Status 59-500714

From Kathy Date 6/15/88

Return To: Files

Input _____

REMARKS **ENTERED JUN 15 1988**

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DEPARTMENT OF WATER RESOURCES
99 East Virginia
Phoenix, Arizona 85004

Registration No. P 500714
Owner of
Well Site Maricopa County, Arizona
File No. A (1-7) 18 ACC

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

sw 1/4 sw 1/4 ne 1/4 TIN R 7 E Sect. 18

Date Well Completed 06/18/81 Depth of Well 1060'

1. Well Test:
Test Pumping Capacity 1450 Date Well Tested June 18, 1981
(Gal. per min.)

Method of Discharge Measurement ORIFICE
(weir, orifice, current meter, etc.)

Static Groundwater Level 452.4 ft. Drawdown 14.0 ft.

Total Pumping Lift 613.4 ft. Drawdown -- lbs.
(Flowing Well)

2. Equipment Installed AS FEB 10 65:00
N/A

Kind of Pump _____
(turbine, centrifugal, etc.)

Kind of Power VEB H.P. Rating of Motor _____
(Elec., Nat. Gas, Etc.)

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

Joe J. Sharp
Signature Joe J. Sharp, L. A.
Address 4701 E. Washington Street
Phoenix, Arizona 85034
City State Zip

*sent CRT
2-24-84 - m*

Feb. 19, _____, 19 82
Date

* For additional well data see final well report prepared by Manera, Inc. dated August 28, 1981 on file with Arizona State Water Resources Department.

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*2-22-82
71*