

MONITOR/PIEZOMETER WELL
FILING FEE \$10.00

DEPARTMENT OF WATER RESOURCES (DWR)
NOTICE OF INTENTION TO DRILL
MONITOR/PIEZOMETER WELL

MONITOR/PIEZOMETER WELL

3 of 5

Section 45-596, Arizona Revised Statutes and Rule R12-15-817 provide: Prior to drilling a monitor or piezometer well, the well owner or lessee shall file a Notice of Intention to Drill on a form provided by the Department.

WELL/LAND LOCATION

1. Township 2N N/S
Range 2E E/W
Section 22

List 10-acre subdivision
SW 1/4, NE 1/4, SW 1/4

2. County Maricopa

3. Applicant:
Western Technologies Inc.
Name

3737 East Broadway Road
Address
Phoenix, Arizona 85036
City State Zip

4. Gabriel R. Escamillo, Jr.
NAME OF CONTACT PERSON
Phone: 437-3737
Agency: _____

5. Owner of well:
City of Phoenix
Name
2441 South 22nd Avenue
Address
Phoenix, Arizona 85009
City State Zip

6. Purpose of well drilled pursuant to this Notice:
Monitor X
Piezometer _____

7. Owner of land:
City of Phoenix
Name
2441 South 22nd Avenue
Address
Phoenix, Arizona 85036
City State Zip
256-3248
Telephone number

8. Construction will start:
7/1/86
Month Day Year

9. Period well will remain in use: 1 year months/years

DO NOT WRITE IN THIS SPACE
OFFICE RECORD
File No. A(2-2)220ac
Filed 6-27-86 By mg
Input 7-1-86 By YH
Duplicate Mailed 6-30-86 By mg
Registration No. 55-514743
AMA/INA Phoenix
W/S 07 S/B 04

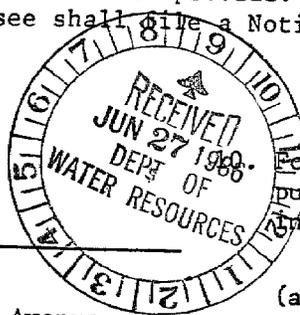
GENERAL INSTRUCTIONS

Fill out this form in duplicate and mail to Department of Water Resources, Suite 100, 99 East Virginia, Phoenix, Arizona 85004. Filing fee must accompany Notice.

I state that this Notice is filed in compliance with Rule R12-15-809 and is complete and correct to the best of my knowledge and belief and that I understand the conditions set forth on the reverse side of this form.

DATE 6/26/86

Gabriel R. Escamillo, Jr.
Signature of Applicant



For monitoring wells, is pump equipment to be installed? No

(a) If so, what will be the design pump capacity? N/A gallons per minute

(b) Type of pump (submersible, turbine, etc.) N/A

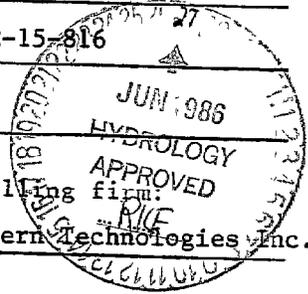
(c) What use will be made of the water? _____

Contamination determination

11. Proposed method of abandonment of well after project is completed:
Per DWR Regulation

R 12-15-816

12. Drilling firm:
Western Technologies Inc.
Name
3737 East Broadway Road
Address
Phoenix, Arizona 85036
City State Zip



263
DWR License Number

(continued on reverse)

13. Is this well to monitor existing contamination? Yes Potential contamination? Fuel
Please explain Fuel has leaked from underground fuel tanks.
-
14. If construction plans have been coordinated with Az. Dept. Health Services, Environmental Health Division, who is the agency contact? Chuck Gordon
If construction plans have been coordinated with Az. Dept. Water Resources, Hydrology/ Remedial Action Division, who is the division contact? Clay Cady
15. WELL CONSTRUCTION PLAN
- a) Drilling method (mud rotary, hollow-stem auger, etc.) Mud rotary
- b) Borehole diameters: 9-7/8 inches from 0 feet to 150 feet
 _____ inches from _____ feet to _____ feet
 _____ inches from _____ feet to _____ feet
- c) Casing materials (PVC, steel, stainless steel, etc.):
 material Threaded PVC diameter 4 inches from 0 feet to 150 feet
 material _____ diameter _____ inches from _____ feet to _____ feet
 material _____ diameter _____ inches from _____ feet to _____ feet
- d) Method of sealing at reductions No reductions expected
- e) Annular seal materials (cement, grout, etc.) and method of placement (tremied, circulated):
 material Cement grout method Tremied from 0 feet to 95 feet
 material _____ method _____ from _____ feet to _____ feet
 material _____ method _____ from _____ feet to _____ feet
- f) Gravel packs (state material, and whether natural or artificial):
 material Number 3 sand from 95 feet to 150 feet
 material _____ from _____ feet to _____ feet
- g) Perforations (if pre-manufactured, please give specs of perforations or screens):
 type PVC Screen No. .020 Slotts from 100 feet to 150 feet
 type _____ from _____ feet to _____ feet
- h) Method of well development (bail, air lift, surge) Air lift
- i) Will surface or conductor casing extending above grade be used to protect the aquifer from additional surface contaminants during drilling and construction? No - see attached.
16. Include detailed construction diagram, if available.

CONDITIONS

- I. Construction and abandonment standards for all wells shall be in accordance with DWR rules R12-15-811 and R12-15-816.
- II. Drilling of the well shall be completed within one (1) year after the date of Notice.
- III. A Well Driller Report, DWR-55-6-5/83, is required within 30 days of completion of drilling. A Completion Report, DWR-55-7-3/83, is required to be filed with the Department within 10 days after installation of pump equipment for monitor wells.
- IV. Pump equipment may not be installed on a well drilled for piezometer purposes. If a monitor well is pumped, pumping is limited to the minimum amount required for monitor purposes, but in no case may exceed 35 gallons per minute and an annual amount of 10 acre feet total.
- V. Special construction standards required pursuant to R12-15-821: _____

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



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.

- Owner City of Phoenix
2441 S. 22 AVE Name Phoenix AZ 85009
Mailing Address
- Driller MANUEL HERNANDEZ
3737 E. BROADWAY RD Phx AZ 85036
Mailing Address
- Location of well: 2 N. 2 E. SEC 22 1/4 SW, 1/4 NE 1/4 SW
- Permit No. _____
(if issued)

DESCRIPTION OF WELL

- Total depth of hole 135 ft.
- Type of casing PVC
- Diameter and length of casing 4 in. from 0 to 135, _____ in from _____ to _____
- Method of sealing at reduction points No Reduction Points
- Perforated from 95 to 135, from _____ to _____, from _____ to _____
- Size of cuts .020 Number of cuts per foot _____
- If screen was installed: Length 40 ft. Diam 4 in. Type _____
- Method of construction Rotary
drilled, dug, driven, bored, jetted, etc.
- Date started 7 26 86
Month Day Year
- Date completed 7 30 86
Month Day Year
- Depth to water 115 ft. (If flowing well, so state.)
- Describe point from which depth measurements were made, and give sea-level elevation if available Ground Level
- If flowing well, state method of flow regulation: Static
- Remarks: _____

DO NOT WRITE IN THIS SPACE
OFFICE RECORD
Registration No. 55-514743
Received _____ By _____
Entered _____ By _____
File No. A(2-2)22 cac

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Date



WATER TIGHT VAULT

WATER MONITORING WELL

- 150' FT. DEEP
- 4" P.V.C. PIPE
- WATER TIGHT STEEL VAULT
- 2'X 2'X6" CONCRETE SURFACE PAD
- LOCATION: CITY OF PHOENIX
N.W. SERVICE CENTER
43RD AVE & GLENROSA AVE.

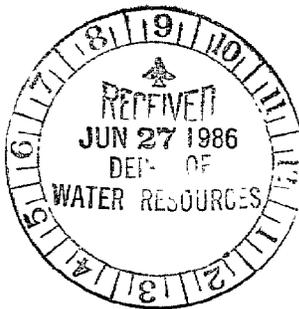
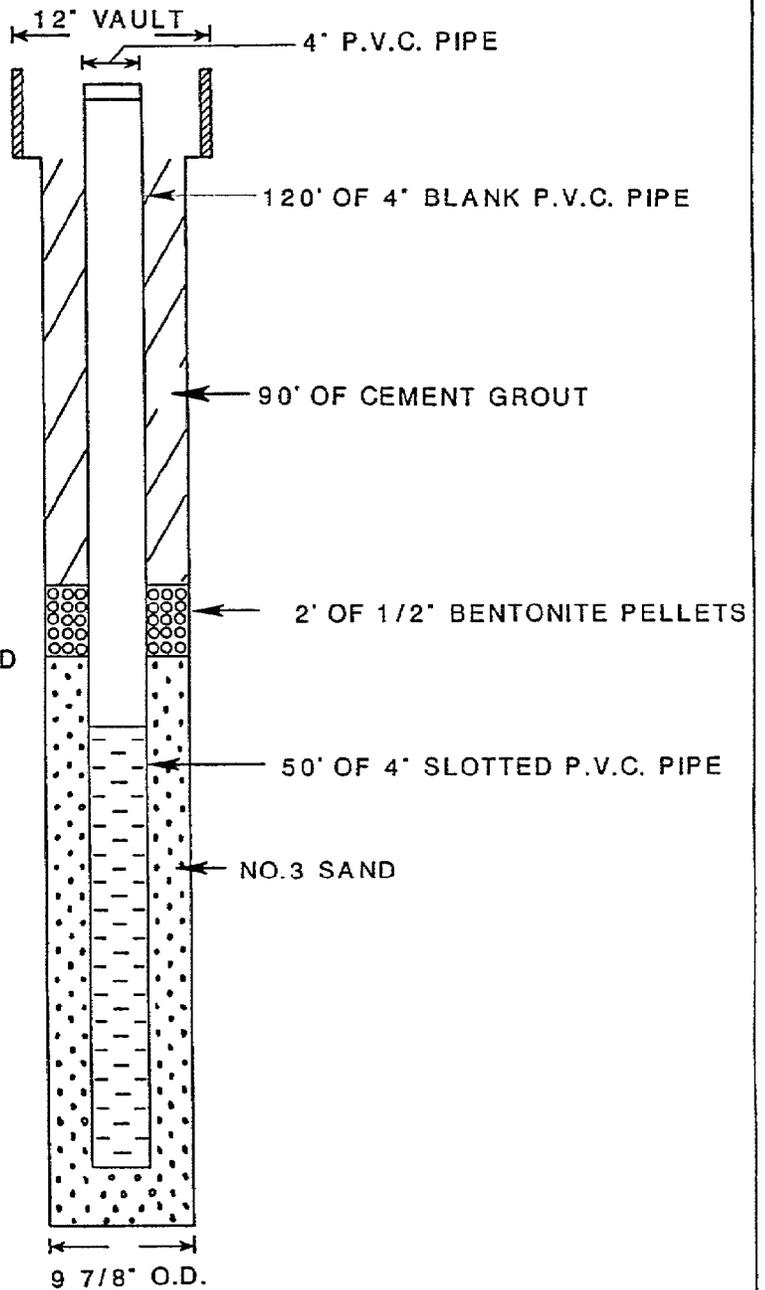
Checked By

6/26/86

Date

s.f.

Prepared By



UNRECORDED

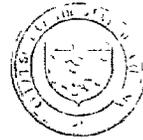


State of Arizona

DEPARTMENT OF WATER RESOURCES

99 E. Virginia Avenue, Phoenix, Arizona 85004

June 30, 1986



City of Phoenix
2441 South 22nd Ave.
Phoenix, Arizona 85009

Registration No. 55-514743 Thru 55-514747
File No. Various

BRUCE BABBITT, Governor
KATHLEEN FERRIS, Director

Dear Well Owner:

Enclosed for your records is an annotated copy of the Notice of Intention to Drill an exploration well which was recently filed with this Department. This is returned to you as evidence of compliance with A.R.S. §45-596. Your designated driller has been mailed separately a Well Drilling Card which he is required to have in his possession before commencing to drill the well.

XXX Since this well is being drilled as a monitor well, or for cathodic protection, grounding, geotechnical or piezometer purposes, our standard driller report form is also being furnished to the driller which he is required to complete and return to the Department within 30 days after the completion of drilling. A Completion Report form is being furnished for monitor wells where pump equipment is authorized to be installed as part of this packet so that you may submit the report within 30 days after the installation of pumping equipment on a monitor well as required by A.R.S. §45-600.

 This well is authorized to be drilled for mineral exploration purposes. Because of this, no pump equipment may be installed. A Project Completion Report is being furnished your designated driller for each hole to be drilled. Your driller is required to submit this Project Completion Report within 30 days after completion of drilling. You should insist that this is done.

For monitor, geotechnical, cathodic protection, grounding and piezometer wells, you should obtain the written permission of the Department of Water Resources before proceeding with the drilling in the event that you determine it necessary to change the location of the proposed well. A properly signed amended Drilling Card must be in the possession of the driller before drilling commences at a different location than originally authorized.

For your future use, a Change of Well Information form is enclosed should it become needed. Per A.R.S. §45-593, the person to whom a well is registered shall notify this Department of a change of ownership of the well and/or information pertaining to the physical characteristics of the well, including abandonment, in order to keep the well registration file current and accurate.

Sincerely,

R. A. Gessner
R. A. Gessner

Chief, Operations Division

RAG:mg

Enclosures

DWR-55-8-8/84

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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.

WESTERN TECHNOLOGIES INC
 3737 E BROADWAY
 PHOENIX ARIZONA 85040

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

CITY OF PHOENIX 85001

RECEIPT

KIND ENTRY	FILE REFERENCE NO.
55	514743
	THRU
55	514747

FUND SOURCE	ACCOUNT NO.			INT. ACCT.	ITEM DESCRIPTION	RATE	\$ AMOUNT
	AGENCY	CHAPTER	DIV.				
					FILING FEE FOR NOTICE OF INTENTION TO DRILL	10.00	50.00
					1 WELL		
					FILE NO A(2-2)22 cac REG NO 55-514743		
					A(2-2)22 cac 55-514744		
					A(2-2)22 cac 55-514745		
					A(2-2)22 cac 55-514746		
					A(2-2)22 cac 55-514747		
					WRITER PAYMENT		
					GUESTS 1		
					CHK NO 202302		
					55-1		50.00
					TAX		0.00
					TOTL		50.00
					GEN.CHEK		50.00

CHECK NO 202302
 6-30-86

TOTAL \$ 50.00

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



**WESTERN
TECHNOLOGIES
INC.**

3737 East Broadway Road
P O Box 21387
Phoenix, Arizona 85036
(602) 437-3737

Department of Water Resources
99 East Virginia
Phoenix, Arizona 85004

June 26, 1986

Attn: Mr. Placito Rosanto

Re: City of Phoenix N.W. Service Center
Monitoring Wells

Job No. 2186J015

Dear Sir:

On 5/20/86 Western Technologies Inc. applied for notice of intention to drill ten geotechnical borings at the City of Phoenix N.W. Service Center. The application was granted (Registration 55-514429). Seven of the ten borings were augered and sampled. The other three will not be required at this time. Our client requested that six of the geotechnical borings (auger) be completed as monitoring wells. Western Technologies Inc. applied for and received permits for a total of eight monitoring wells. At this time, we propose to complete eight monitoring wells. Six of the geotechnical borings have been completed as monitoring wells and two more will be drilled from the surface.

One of the original seven geotechnical borings is still open and has not been abandoned as required. This boring was advanced to 95 feet and has no water. We therefore request an extension of 30 days before either it becomes a monitoring well or we properly abandon it. We apologize for the delay in providing this information to you.

Sincerely,

WESTERN TECHNOLOGIES INC.
Geotechnical Services

Gabriel R. Escamillo, Jr.

Gabriel R. Escamillo, Jr.
Manager

jh

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**WESTERN
TECHNOLOGIES
INC.**

3737 East Broadway Road
P O Box 21387
Phoenix, Arizona 85036
(602) 437-3737

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

June 26, 1986

Re: Request for Variance

Ref. No. 2176J181

Dear Sirs:

The City of Phoenix has asked us to request notices of intention to drill for five additional monitoring wells at the N.W. Service Center. The location services City of Phoenix vehicles and has heavy traffic. We request a variance on the five wells to include the following:

- The well be completed flush with the ground surface with a water tight vault and a 2' x 2' x 6" concrete pad.
- That the requirement for a 20' steel surface casing be deleted.

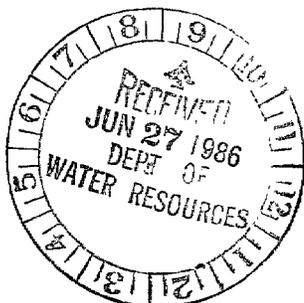
We thank you for your consideration.

Sincerely,

WESTERN TECHNOLOGIES INC.
Geotechnical Exploration

Gabriel R. Escamillo, Jr.
Manager

jh



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State of Arizona
DEPARTMENT OF WATER RESOURCES
99 E. Virginia Avenue, Phoenix, Arizona 85004



BRUCE BABBITT, Governor
KATHLEEN FERRIS, Director

June 27, 1986

Mr. Gabriel R. Escamillo, Jr.
Western Technologies, Inc.
P. O. Box 21387
Phoenix, Arizona 85036

Re: Request for Variance for 5 Monitor Wells

Dear Mr. Escamillo:

We are in receipt of your letter dated June 26, 1986 requesting a construction variance for 5 Monitor Wells. This letter constitutes our approval as described below:

The requirement to incorporate 20 feet of steel surface casing with 1 foot extending above grade is waived. Instead, 4" PVC casing may be used with the required grout seal, and the casing may terminate below ground level, with a steel water tight vault constructed around the well. Also, a water tight cap shall be provided for the 4" PVC casing.

If you have any questions please call me.

Sincerely,

Robert K. Fifield

Robert K. Fifield
Hydrologist

rk

RECORDED

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.

**WESTERN
TECHNOLOGIES
INC.**

3737 East Broadway Road
P O Box 21387
Phoenix, Arizona 85036
602-437-3737



Gabriel R. Escamillo, Jr.
Associate / Manager
Geotechnical Exploration



Quality Management
Geotechnical, Construction Materials, Chemistry & Environmental Engineering
ARIZONA • NEVADA • NEW MEXICO

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

March 16, 1987

Attn: Marge Watson

Re: Change of Legal Description

Dear Marge:

The following is a list of wells that were requested by me for the City of Phoenix North West Service Center Project. I used the wrong legal description. Please correct them for me.

<u>ADWR REGISTRATION NUMBER</u>	<u>MONITORING WELL NUMBER</u>	<u>1/4 SECTIONS</u>
-514429	8	CDB
-514559	1	CDB
-514561	2	CDB
-514562	3	CDB
-514563	4	CDB
-514564	6	CDB
-514565	7	CDB
-514566	GTP	CDB
-514743	9	CAC
-514744	10	CDB
-514745	11	CDB
-514746	12	CAC
-514747	13	CAC
-515553	14	CAC
-515554	15	CAC
-515555	16	CAC
-515556	17	CAC
-515557	18	CAC

515558 and 515979 have yet to be used.

Sincerely,

WESTERN TECHNOLOGIES INC.
Geotechnical Exploration

Gabriel R. Escamillo Jr.

Gabriel R. Escamillo, Jr.
Director



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DEPARTMENT OF WATER RESOURCES
99 East Virginia Avenue
Suite 100
Phoenix, Arizona 85004

CHANGE OF WELL INFORMATION

Registration No. 514743

I request the following information be changed in Well File Number A(2-2)22CAC

Date _____, 19____ Signature of Well Owner _____

STATEMENT OF CHANGE OF WELL OWNERSHIP

I, Groundwater Technology, Inc., state that I am (~~no longer~~) the (new) owner of the well described below:

Township 2N Range 2E Section 22, SW 1/4 NE 1/4 SW 1/4
Registration #55- 514743 File No. (A-2-2)22CAC

<u>Susan Keith, Water Quality Advisor</u> Previous Owner <u>City of Phoenix</u>	<u>Groundwater Technology, Inc.</u> New Owner
<u>1015 Central; 5th floor</u> Address <u>Barrister Place</u>	<u>607 S. 48th St, #103</u> Address
<u>Phoenix, AZ 85004</u> City State Zip	<u>Tempe, AZ 85281</u> City State Zip

NOTE: ARS §45-593 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.

NOTE: SAVE THIS FORM TO REPORT FUTURE CHANGES IN OWNERSHIP OR WELL DATA SUCH AS PUMP CAPACITY, ETC.

ENTERED NOV 25 1987

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