Arizona Department of Water Resources
Groundwater Permitting and Wells
PO Box 36020 • Phoenix, Arizona 85067-3602(
(602) 771-8527 • 1-800-352-8488

Well Abandonment Completion Report

RECEIVED
JUN 30 2016
ARIZONA DEPARTMENT OF WATER RESOURCES

FILE NUMBER
A(2-2) 26 CBD

WELL REGISTRATION NUMBER
55 - 547462

❖ 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 **

SECTION 1. ABANDONMENT AUTHORIZATION

Drilling Firm

Mail To:		
	NAME YELLOW JACKET DRILLING SERVICES, LLC	DWR LICENSE NUMBER 78
	ADDRESS P.O. BOX 801	TELEPHONE NUMBER 602-453-3252
	CITY / STATE / ZIP GILBERT, AZ 85299-0801	FAX 602-453-3258

SECTION 2. REGISTRY INFORMATION

Well Owner Information

FULL NAME OF COMPANY, ORGANIZATION, OR INDIVIDUAL ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY	CONTACT PERSON NAME AND TITLE Kevin Snyder, Hydrologist
MAILING ADDRESS 1110 W WASHINGTON ST 4415B-1	TELEPHONE NUMBER 602-771-4186
CITY / STATE / ZIP PHOENIX, AZ 85007	FAX 602-771-4272

Location of Well

WELL LOCATION ADDRESS (IF ANY)
City of Phoenix Right of Way

TOWNSHIP (N/S)	RANGE (E/W)	SECTION	160 ACRE	40 ACRE	10 ACRE
2N	2E	26	SW 1/4	NW 1/4	SE 1/4

COUNTY ASSESSOR'S PARCEL ID NUMBER

BOOK	MAP	PARCEL
108	3	101A

LATITUDE: 33 ° (Degrees) | 29 ' (Minutes) | 4 " N (Seconds)
LONGITUDE: 112 ° (Degrees) | 7 ' (Minutes) | 50 " W (Seconds)

LAND SURFACE ELEVATION AT WELL
1109 Feet Above Sea Level

METHOD OF LATITIDE / LONGITUDE (Check One) ☒ *GPS: Hand-Held ☐ USGS Quad Map ☐ Conventional Survey ☐ *GPS: Survey-Grade

*If GPS WAS USED, GEOGRAPHIC COORDINATE DATUM (Check One)
☒ NAD-83 ☐ Other *(please specify):*

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 nesessary) West Grand Ave. WQARF site concentrations have decreased below Aquifer Water Quality Standards.
2. Is there another well name or identification number associated with this well? (e.g., MW-1, PZ-4, Lot 29 Well, Smith Well, etc.)	X		IF YES, PLEASE STATE WCP-10
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?
Reduction of contaminants assoc. w/ the WQARF site below AWQS and in anticipation of delisting of WQARF site.

Well Abandonment Completion Report

WELL REGISTRATION NUMBER
55 - 547462

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

Existing Borehole

DEPTH FROM SURFACE FROM (feet)	DEPTH FROM SURFACE TO (feet)	BOREHOLE DIAMETER (inches)
0	130	10

Existing Casing (to the best of your knowledge)

DEPTH FROM SURFACE FROM (feet)	DEPTH FROM SURFACE TO (feet)	OUTER DIAMETER (inches)	MATERIAL TYPE (T): STEEL	PVC	ABS	IF OTHER TYPE, DESCRIBE	PERFORATION TYPE (T): BLANK OR NONE	WIRE WRAP	SHUTTER SCREEN	MILLS KNIFE	SLOTTED	IF OTHER TYPE, DESCRIBE	SLOT SIZE IF ANY (inches)
0	90	4		X			X						
90	130	4		X							X		.020

Condition of casing: ☐ Good ☐ Fair ☐ Poor unknown

Existing Annular Material (to the best of your knowledge)

DEPTH FROM SURFACE FROM (feet)	DEPTH FROM SURFACE TO (feet)	ANNULAR MATERIAL TYPE (T): NONE	CONCRETE	NEAT CEMENT OR CEMENT GROUT	CEMENT-BENTONITE GROUT	BENTONITE: GROUT	CHIPS	PELLETS	IF OTHER TYPE OF ANNULAR MATERIAL DESCRIBE	FILTER PACK: SAND	GRAVEL	SIZE
0	85				X							
85	88						X					
88	130									X		#3

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

Refer to ADWR's Well Abandonment Hanbook for additional information

DEPTH TO WATER N/A Feet Below Land Surface

DATE ABANDOMENT COMPLETED 6/23/16

Casing Treatment

DEPTH FROM SURFACE FROM (feet)	DEPTH FROM SURFACE TO (feet)	TREATMENT TYPE (T): SONAR JET	BRUSH OR SCRAPE	MILLS KNIFE	CASING REMOVAL (explain in Remarks)	IF OTHER TYPE, DESCRIBE OR IF CASING WAS PERFORATED, DESCRIBE SPACING AND PERFORATIONS THAT WERE ADDED
			N/A			

Sealing or Fill Material

DEPTH FROM SURFACE FROM (feet)	DEPTH FROM SURFACE TO (feet)	MATERIAL TYPE (T): NEAT CEMENT	CONCRETE	SAND-CEMENT GROUT	CEMENT-BENTONITE GROUT	SAND-BENTONITE GROUT	HIGH SOLIDS: GROUT	CHIPS	PELLETS	SAND	MIXING RATIO by (check one) ☐ Weight ☒ Volume	VOLUME OF MATERIAL USED (cubic feet)
0	130				X							

Actual 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)*

Emplacement Method of Sealing or Fill Material

CHECK ONE

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

REMARKS

I state that this 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

TYPE OR PRINT NAME AND TITLE	SIGNATURE OF QUALIFYING PARTY	DATE
ERIC BRUE		6/20/16

Arizona Department of Water Resources
Groundwater Permitting and Wells Section
P.O. Box 36020 Phoenix, Arizona 85067-6020
(602) 771-8527 • (602) 771-8690 fax
• www.azwater.gov •

Notice of Intention to Abandon a Well

FEE $150.00

- 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.
- Authority for fee: A.R.S. § 45-113 and A.A.C. R12-15-104

RECEIVED JUN 6 2016 ARIZONA DEPARTMENT OF WATER RESOURCES

TO BE COMPLETED BY ADWR			FILE NUMBER
AMA/INA	BASIN	SUBBASIN	AQ-2)26 CBD
RECEIVED DATE 6/6/16	WATERSHED		WELL REGISTRATION NUMBER
ISSUED DATE 6/6/16	REMEDIAL ACTION SITE XXX		55-547462

SECTION 1. REGISTRY INFORMATION

To determine the location of well, please refer to the Well Registry Map (https://gisweb.azwater.gov/WellRegistry/Default.aspx) and Google Earth (http://www.earthpoint.us/Townships.aspx)

Well Type

CHECK ONE

- ☐ Domestic
- ☐ Stock
- ☐ Irrigation
- ☐ Municipal
- ☒ Monitor / Piezometer
- ☐ Geotechnical
- ☐ Mineral Exploration
- ☐ Other (*please specify*):

ORIGINAL WELL OWNER (IF KNOWN): Arizona Department of Environmental Quality (ADEQ)

ORIGINAL WELL DRILLING FIRM (IF KNOWN): Heber Mining and Exploration Co.

DRILL DATE (IF KNOWN): February 7, 1995

Location of Well

WELL LOCATION ADDRESS (IF ANY) OR CROSS STREETS: City of Phoenix Right of Way

TOWNSHIP (N/S)	RANGE (E/W)	SECTION	160 ACRE	40 ACRE	10 ACRE
2.0 N	2.0 E	26	SW ¼	NW ¼	SE ¼

COUNTY ASSESSOR'S PARCEL ID NUMBER BOOK	MAP	PARCEL	COUNTY WHERE WELL IS LOCATED
108	3	101A	MARICOPA

LATITUDE			LONGITUDE		
33 °	29 '	4.00 "N	112 °	7 '	50.00" W
Degrees	Minutes	Seconds	Degrees	Minutes	Seconds

METHOD OF LATITUDE/LONGITUDE (*check one*): ☐ Google Earth ☐ Conventional Survey ☐ *GPS: Hand-Held ☒ *GPS: Survey-Grade

*IF GPS WAS USED, GEOGRAPHIC COORDINATE DATUM (*check one*): ☒ NAD-83 ☐ Other (*please specify*):

SECTION 2. OWNER INFORMATION

Land Owner	Well Owner (*check this box if Land Owner and Well Owner are same*) ☐
FULL NAME OF COMPANY, ORGANIZATION, OR INDIVIDUAL: City of Phoenix (COP)	FULL NAME OF COMPANY, GOVERNMENT AGENCY, OR INDIVIDUAL: Arizona Department of Environmental Quality (ADEQ)
MAILING ADDRESS: 200 West Washington Street	MAILING ADDRESS: 1110 West Washington Street
CITY / STATE / ZIP CODE: Phoenix / Arizona / 85003	CITY / STATE / ZIP CODE: Phoenix / Arizona / 85007
CONTACT PERSON NAME AND TITLE: Street Transportation Department	CONTACT PERSON NAME AND TITLE: Kevin Snyder, Hydrologist
TELEPHONE NUMBER: (602) 262-4980 FAX NUMBER: (602) 495-2016	TELEPHONE NUMBER: (602) 771-4186 FAX NUMBER: (602) 771-4272

SECTION 3. ABANDONMENT AUTHORIZATION

Drilling Firm		Consultant (*if applicable*)	
NAME: Yellow Jacket Drilling Services		CONSULTING FIRM: URS Corporation	
DWR LICENSE NUMBER: 78	ROC LICENSE CATEGORY: A-4	CONTACT PERSON NAME: Janet Workman	
TELEPHONE NUMBER: (602) 453-3252	EMAIL ADDRESS: beau@yjdrilling.com	TELEPHONE NUMBER: (602) 371-1100	EMAIL ADDRESS: janet.workman@aecom.com

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?	☒	☐	EXPLAIN (*attach additional page if necessary*) West Grand Avenue WQARF Site concentrations have decreased below Aquifer Water Quality Standards (AWQS).
2. Is there another well name or identification number associated with this well? (*e.g., Lot 3 Well, MW-1, etc.*)	☒	☐	(*please state*) WCP-10
3. Was the well casing video logged?	☐	☒	INCLUDE CD OR DVD OF VIDEO LOG WITH NOTICE OF INTENT
4. Why is the well being abandoned?	Reduction of contaminants associated with the WQARF site to below AWQS and in anticipation of delisting of WQARF Site.		

Notice of Intent to Abandon a Well

WELL REGISTRATION NUMBER
55 - 547462

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				PERFORATION TYPE						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	
0	130	10	0	90	4	☐	☒	☐		☒	☐	☐	☐	☐		
			90	130	4	☐	☒	☐		☐	☐	☐	☐	☒		0.02
						☐	☐	☐		☐	☐	☐	☐	☐		

Condition of casing: (good, fair, poor, unknown) UNKNOWN

DEPTH FROM SURFACE		ANNULAR MATERIAL TYPE								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	85	☐	☐	☐	☒	☐	☐	☐		☐	☐	
85	88	☐	☐	☐	☐	☐	☒	☐		☐	☐	
88	130	☐	☐	☐	☐	☐	☐	☐		☒	☐	#3 Sand

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

DATE ABANDONMENT IS TO BEGIN
After 06/10/2016

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

Casing Treatment

DEPTH FROM SURFACE		TREATMENT TYPE				
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
		☐	☐	☐	☐	
		☐	☐	☐	☐	
		☐	☐	☐	☐	

Sealing or Fill Material

DEPTH FROM SURFACE		MATERIAL TYPE									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		
0	1	☐	☒	☐	☐	☐	☐	☐	☐	☐		
1	130	☐	☐	☐	☒	☐	☐	☐	☐	☐		
		☐	☐	☐	☐	☐	☐	☐	☐	☐		

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)*:

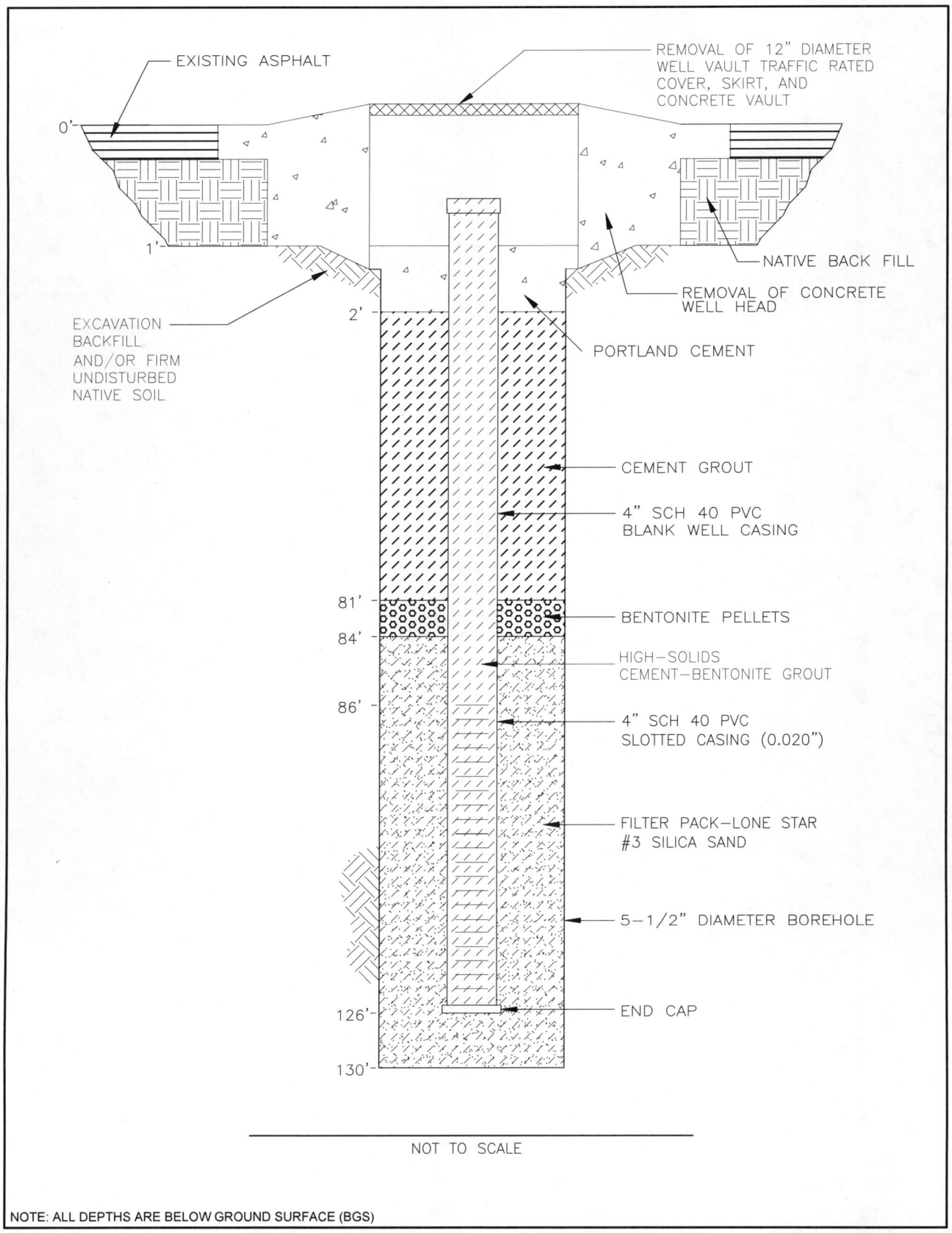
* requires a letter requesting a variance

Emplacement Method of Sealing or Fill Material

CHECK ONE

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

APPLICATION CONTINUES ON PAGE 3



NOTE: ALL DEPTHS ARE BELOW GROUND SURFACE (BGS)

Proposed Well Abandonment Diagram - WCP-10

West Central Phoenix - West Grand Avenue WQARF Site

URS

Figure 2

P:\Projects\ADEQ\60444929_FY16WGRAND\5_Technical\ROW Permit_WCP-235\Proposed Well Abandonment Diagram - WCP-10_abandonment.dwg

Notice of Intent to Abandon a Well

WELL REGISTRATION NUMBER
55 - 547462

SECTION 7. Well Abandonment Diagram

Please use the space below to provide a well abandonment diagram showing all existing well construction features listed in Section 5 and the proposed abandonment specifications listed in Section 6.

See previous page

SECTION 8. LAND OWNER AND WELL OWNER SIGNATURE

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.

Land Owner	Well Owner *(complete if Land Owner/Well Owner are NOT the same)*
PRINT NAME AND TITLE Access Agreement Attached	PRINT NAME AND TITLE Kevin Snyder, Hydrologist
SIGNATURE OF LAND OWNER	SIGNATURE OF WELL OWNER
DATE	DATE 5/28/16
☐ By checking this box, you agree to allow ADWR to contact you via electronic mail.	☒ By checking this box, you agree to allow ADWR to contact you via electronic mail.
EMAIL ADDRESS	EMAIL ADDRESS KCS@AZADEQ.GOV

NOTICE

A.R.S. § 41-1030(B), (D), (E) and (F) provide as follows:

B. An agency shall not base a licensing decision in whole or in part on a licensing requirement or condition that is not specifically authorized by statute, rule or state tribal gaming compact. A general grant of authority in statute does not constitute a basis for imposing a licensing requirement or condition unless a rule is made pursuant to that general grant of authority that specifically authorizes the requirement or condition.

D. This section may be enforced in a private civil action and relief may be awarded against the state. The court may award reasonable attorney fees, damages and all fees associated with the license application to a party that prevails in an action against the state for a violation of this section.

E. A state employee may not intentionally or knowingly violate this section. A violation of this section is cause for disciplinary action or dismissal pursuant to the agency's adopted personnel policy.

F. This section does not abrogate the immunity provided by section 12-820.01 or 12-820.02.

RETURN TO CITY OF PHOENIX
ACCOUNT #34

OFFICIAL RECORDS OF
MARICOPA COUNTY RECORDER
HELEN PURCELL

Recording Number
92-0029404

01/17/92 04:17

11 of 15 CATHY

AGREEMENT NO. RP-91011

Folder No. 91011 **61388**

The City of Phoenix Street Transportation Department, as authorized by the City Council, hereby issues a Revocable Permit to STATE of ARIZONA for the DEPARTMENT OF ENVIRONMENTAL QUALITY (herein called permittee) for the maintenance and use of ground water monitoring wells within various City of Phoenix right-of-ways citywide.

The monitoring wells authorized by this permit will have exhibit drawings submitted to the City of Phoenix Streets Transportation Department.

THE PERMIT IS SUBJECT TO THE FOLLOWING CONDITIONS:

GENERAL CONDITIONS:

1. The right-of-ways shall be used according to plans approved by the City of Phoenix. Any future modifications and/or additions shall be done according to amended plans submitted to and approved by the City. All work done in the right-of-ways requires construction permits from the City of Phoenix.

2. This Revocable Permit is not a construction permit. This permit is limited to subsurface rights for the maintenance, and use of the encroachment; otherwise, the City of Phoenix retains full rights to the right-of-ways.

3. The permittee shall through The Arizona Department of Administration, Risk Management Division and pursuant to Section 41-621 of the Arizona Revised Statutes provide liability insurance with a minimum of $1,000,000.00 combined single limit of coverage per person, per occurrence against bodily injury or death, and damage to property, explosion and collapse hazards, underground hazards, products/completed operations hazards. Said liability insurance shall continue in effect for as long as the permit is in effect. The permittee shall file with the City of Phoenix a Certificate of Insurance covering the permittee's liability under this permit and name the City of Phoenix as an additionally insured for the permitted encroachments. The policy shall provide that is shall not be cancelled or amended without prior written notice to the City of any proposed cancellation or amendment. A current Certificate of Insurance must be posted with the City each time the Certificate expires.

4. Neither party to this agreement agrees to indemnify the other party or hold harmless the other party from liability hereunder. However, if the common law or a statute provides for either a right to indemnity and/or a right to contribution to any party to this agreement, then the right to pursue one or both of these remedies is preserved.

5. The right granted by this Revocable Permit shall not be assigned, nor shall any of the rights or privileges (herein granted or authorized) be leased, assigned, sold or transferred, either in whole or in part, without the expressed written consent of the City.

   The permittee shall notify the City of Phoenix Street Transportation Department within 30 days of any change in mailing address, proposed lease, assignment, sale or transfer of the permit. The approval of any change of any assignment or transfer of the permit of any kind, shall be evidenced by a supplemental Assignment of Revocable Permit document to be signed by the assignor, the assignee, and the City as grantor of the rights, privileges, and obligations of this Revocable Permit as limited by the terms and conditions of this permit.

6. This Revocable Permit shall not be deemed to be a franchise, an easement, a covenant running with the land, a lease, nor a grant of any kind. This permit allows use of various City of Phoenix public right-of-ways for an indefinite period of time.

7. This permit may be revoked at any time if any of the conditions of the permit are violated or it may be revoked at any time in the discretion of the City Council or by the Street Transportation Director with the ratification of the City Council as such authority is granted to the Street Transportation Director by Ordinance.

   This permit is subject to revocation pursuant to the following:

   a. pursuant to the provisions of Arizona Revised Statutes, Section 38-511; the Immigration Reform and Control Act of 1986.

   b. failure to execute permit within 6 months after permit is issued upon signature by the City of Phoenix.

   c. failure to comply with the terms of the permit.

   d. eviction due to the area is required for a City Project or for one of the City's licensed or franchised users.

   e. use of right-of-ways is not as authorized by the city of Phoenix.

f. pursuant of laws, ordinances, or codes of the State or any one of its political divisions to the City level governing the use of the public right-of-ways.

g. use of right-of-ways determined no longer an acceptable use by the City of Phoenix.

h. use has become hazardous to the health, safety or the general welfare of the public.

Upon revocation of this permit the approved improvements will be abandoned in place to the satisfaction of the Street Transportation Director at no cost to City of Phoenix within 180 days of written notice to vacate the right-of-way, or within 30 days for realignments of streets or construction in streets by the City or by their permittees, or upon notice in an emergency.

The improvements that have been made and to be abandoned will be abandoned in place in accordance with the City of Phoenix requirements and also with Arizona Department of Water Resources abandoning requirements. Any property of the permittee to be abandoned in place shall be abandoned in such a manner as the City may prescribe. Upon permanent abandonment of the property the permittee shall submit to the City an instrument to be approved by the City transferring to the City ownership of the property to be abandoned in place.

8. The permittee shall have no recourse whatsoever against the City of its officials, boards, agents or employees for any loss, costs, expenses or damage arising out of any of the conditions of provisions of this Revocable Permit or because of any defects in the Revocable Permit, or should the permittee be lawfully deprived of the use and possession of the encroachment.

9. The Annual Renewal Fee required by the City of Phoenix City Code Article VII, Section 31-80 has been waived by City Council at its [November 6, 1991] meeting.

10. This Revocable Permit shall be subject to general ordinance provisions now in effect or hereafter made effective. Except as specifically provided herein, nothing in this Revocable Permit shall be deemed to waive the requirement of the various codes and ordinances of the City regarding permits or manner of construction in the City's right-of-way.

SPECIAL CONDITIONS:

A. CONSTRUCTION PERMITS

1. The permittee or permittee's contractor shall obtain a construction permit to perform the work in the right-of ways or public easements.

2. The permittee of permittee's contractor shall notify the City of Phoenix, Development Services Department, Project Engineering Division, Project Inspection Team, a minimum of 48 hours in advance of construction, 495-3731. The permittee shall comply with construction permit requirements and agrees to protect, at its expense, any existing facilities in or near the permitted area. The permittee or permittee's contractor shall call for Blue Stake before securing the City inspector's approval to begin construction.

3. The permittee shall provide the City of Phoenix Development Service Department, Project Engineering Division, with final Record Drawings through the Project Inspection Team for final of plans as as-built Record Drawings. A copy of these Record Drawings are then filed with the Street Transportation Department.

B. RECORDS

1. The permittee is required to keep as-built records of facilities in the public right-of-ways and participate as a member in Blue Stake Center; and shall comply with A.R.S. Sec 40-360.21 et seq. regarding Underground Facilities. A copy of agreement or proof of participation shall be submitted to the Street Transportation Department.

C. MAINTENANCE

1. The permittee shall maintain the encroachment in a manner satisfactory to the Street Transportation Director. Failure to provide satisfactory maintenance can result in revocation of this permit pursuant to item 7 of the General Conditions.
2. Whenever the permittee disturbs the surface or subsurface of any street right-of-ways, alley, public highways, street easement, or public utility easement for any reason as a result of construction or due to failure of any of its facilities or subsequent right-of-way restoration work the permittee shall restore the same to the satisfaction of the City of Phoenix with the appropriate construction permits.

   In the case of negligence by the permittee the City of Phoenix may refill and/or repave the street of affected right-of-way, or easement. The cost thereof, including the cost of inspection and supervision, shall be paid by the permittee. All excavations made by the permittee shall be maintained in a safe manner for the prevention of accidents. Barricading will be in accordance to the City of Phoenix latest Traffic Barricade Manual.

D. EMERGENCY WORK

1. Emergency work in the right-of-ways must be barricaded according to the City of Phoenix latest Traffic Barricade Manual available in the Street Transportation Department. Barricading shall be followed immediately by contacting all affected utility companies and the Street Transportation Department. A construction permit from the Development Services Department must follow before backfilling facilities and restoring the street, right-or-way or easement back to conditions as approved by the City. The permittee shall follow emergency procedures set forth by Street Transportation Department.

2. The permittee shall provide the City of Phoenix with proof of ability to perform emergency work in the right-of-ways, including restoration of right-of-ways to the satisfaction of the City of Phoenix inspections by means of a construction permit. Maintenance contracts with another party are to be filed with the Street Transportation Department. The permittee or their maintenance contractor, must be able to: post proper liability insurance; post Workman's Compensation; and perform work in a manner and according to plans as approved by the City of Phoenix.

E. USERS CONFLICTS

1. Nothing in the Revocable Permit shall be construed to prevent the City of Phoenix or its permittee from constructing facilities, grading, paving, and/or altering any facilities, street, alley, or constructing any other public work or private facility permitted by the City of Phoenix in the public right-of-ways. If any property of the permittee herein shall interfere with the construction, laceration, or repair of any facility, street, alley, or easement the permittee herein and any of their assigns shall relocate, remove, or replace their facilities according to plans submitted to and approved by the City of Phoenix at their expense.

2. The City of Phoenix does not assume any maintenance responsibility for private encroachments; nor does the City assure protection of the facilities from damage by others permitted to construct in the right-of-way over or under the facilities herein permitted; neither can the City guarantee protection from failure due to underground seepage, or failure of soil materials and movements.

3. The State of Arizona hereby enters into agreement with the City of Phoenix to make use of arbitration at such time a dispute arises according to State Statutes 12-122 and 12-1515.

92 029404

S I G N A T U R E S

DATED THIS 23rd DAY OF December, 1991

CITY OF PHOENIX
A Municipal Corporation

FRANK A. FAIRBANKS, City Manager
By Thomas E Callow

THOMAS E. CALLOW, P.E.
Assistant Street
Transportation Director

ATTEST:

Steve F Kozall
DEPUTY City Clerk

APPROVED AS TO FORM:

ACTING City Attorney

I the undersigned hereby agree to the conditions set forth in this permit and understand that the work must be done in conformity with the laws of the City of Phoenix and the State of Arizona.

DATED: 12/23/91

By: Al Brown

PERMITTEE: STATE OF ARIZONA

The signature of Permittee is acknowledged by me this 23rd day of December, 1991; signed by AL BROWN

of Dept of Env. Quality

By: Vicki Maggard
Notary Public

My Commission Expires:

My Commission Expires May 9, 1994, 19____

CITY CLERK DEPT
1992 JAN 13 PM 2:48

61388

Transaction Receipt - Success

Arizona Water Resources
Arizona Water Resources
MID:347501639533
1700 W Washington St
Phoenix , AZ 85012
602-771-8454

06/06/2016 12:32PM
Remittance ID
Arizona060616153018953Mon
Transaction ID:
165387067

BEAU BURGESS
po box 801
GILBERT, Arizona 85299
United States
Visa - 1009
Approval Code: 070803

Sale
Amount: $300.00

55-547462, 55-908753
n/a
0
time tracking
symontoya@azwater.gov

Cardmember acknowledges receipt of goods and/or services in the amount of the total shown hereon and agrees to perform the obligations set forth by the cardmember's agreement with the issuer.

Signature _____
click here to continue.

Printed: 6/6/2016 1:15:28 PM

Arizona Department of Water Resources

3550 N Central Ave.
Phoenix AZ 85012

Customer:
BEAU BURGESS
YELLOW JACKET DRILLING
PO BOX 801
GILBERT, AZ 85299

Receipt #: 16-45558
Office: MAIN OFFICE
Receipt Date: 06/06/2016
Sale Type: IN_PERSON
Cashier: WRSYM

Item No.	Index	AOBJ	Description	Ref ID	Qty	Unit Price	Ext Price
67487	15239	4439-TT	Notice of intention to abandon a well	547462	1	150.00	150.00
						RECEIPT TOTAL:	**150.00**

Payment type: CREDIT CARD
Amount Paid: $150.00
Payment Received Date: 06/06/2016

Authorization 165387067

Notes: FROM TTA.

No refund without valid receipt

City of Phoenix
Planning And Development Department

RIGHT-OF-WAY PERMIT

To find out about Phoenix construction code adoption news and to research your permits or projects, please visit http://www.phoenix.gov/PDD

200 West Washington Street
Phoenix, Arizona 85003
General Information 602-262-7811

STATUS: OPEN

POST THIS PERMIT ON JOB SITE

Before you start to dig, call Blue Stake 602-263-1100

Permit # **CMW 16014254** ***Bond #*** 16633 ***Issued*** 19-MAY-2016 ***Expires*** 19-MAY-2018

Permit Description MONITORING WELL ABANDONMENT- WCP-235

Project ***16-1132*** MONITORING WELLS 2016

Address 3335 W FLOWER ST PHOENIX AZ 85017 ***Zoning***

L 2 B * PHOENIX BUSINESS PARK EXPANSION ***Q S*** Q15-21 ***APN*** 108-03-101A ***Suite*** ***Dist*** 04

Description/Scope of Work: MONITORING WELL

DESCRIPTION OF WORK: ABANDON MONITORING WELL IN PUBLIC ROW PER APPROVED PLAN. MONITORING WELL ABANDONMENT: WCP-235
LOCATION: APPROX 528'E/O 34TH DR ON FLOWER ST Q.S. 15-33
STREETS TRANSPORTATION REVOCABLE PERMIT # RP-9101 AZ DEPT OF WATER RESOURCES WELL ID # 55-547462

NOTE: PERMIT FEE BASED ON 2 HOUR INSPECTION TIME. PDD FIELD INSPECTION STAFF MAY CHARGE FOR ADDITIONAL INSPECTION TIME AS NEEDED
NOTE: A FULL COPY (24" X 36") OF THE EPR (add Plan type) PLAN IS REQUIRED TO BE GIVEN TO THE AREA CIVIL INSPECTOR PRIOR TO STARTING WORK UNDER THIS PERMIT.

Pavement replacement thickness and type are to be per M.A.G. and city of Phoenix Supplement Section 336 and city of Phoenix Detail P1200 - Type B. Curb and gutter replacement shall be a minimum of one (1) full section, per M.A.G. Standard Detail 220. Sidewalk replacement shall be a minimum of one (1) full panel per city of Phoenix Detail P1230. At the discretion of the city Of Phoenix Planning & Development Civil/Site Inspector, tunneling under existing curb and gutter, in city Of Phoenix R.O.W., will be allowed. Tunneling under existing sidewalk will not be allowed in the city Of Phoenix R.O.W.

The city of Phoenix Planning & Development Civil/Site Inspection Group, 602-262-7811 Voice or 602-534-5500 TTY, shall be notified 48 hours prior to any construction work within the public right-of-way.

Existing or newly damaged and/or displaced concrete curb, gutter, sidewalk, or driveway slab that is within the right-of-way shall be repaired or replaced, as noted by city inspectors, before final acceptance of the work.

Valuation: $500

Owner Information Email
Name ACADEMY OF MATHEMATICS AND SCIENCE SOUTI Fax
Address 3448 N FIRST AVE TUCSON AZ 85719 Phone

Certificate of Occupancy Type: **COFC**

Contractor Information Type Contact Phone 602-453-3252
Name YELLOW JACKET DRILLING SERVICES Ins ASPEN SPECIALTY INSU ERAF70J15 Exp 01-APR-17
Address P O BOX 801 City/St/Zip GILBERT AZ 85299 Phone 602-453-3252

Instructions and Comments Web Insp Key 2268674 Permit Issued By LMU Entered By AFL

Permit Categories:

Inspections Required: PEI

Call 48 hours before beginning work 602-262-7811

NOTICE - This permit authorizes the above described work to be done in accordance with the approved plans and all applicable City codes and ordinances. Plan approval and permit issuance does not authorize violation of any city code or ordinance. The contractor(s) doing the work and the property owner or tenant/occupant authorizing the work are all legally responsible for complying with all codes and ordinances. By applying for this permit, I am requesting and hereby consent to periodic inspections of the above referenced project in accordance with Arizona Revised Statutes, Title 9, Chapter 7, Article 4. This permit expires by limitation and is null and void if work has not started within or ceased for any reason for 180 days, or if work is not completed by the expiration date printed above. Work after this time or beyond the scope of this permit requires a new supplemental permit. This permit can be suspended or revoked for failing to follow the approved plans or for violation of any City code or ordinance. Work within the public right-of-way shall comply with all City standard details and specifications. The contractor is responsible for maintaining streets and sidewalks safe and usable at all times. All barricades shall be approved in advance and shall comply with the City Traffic Barricade Manual.

City Of Phoenix

Planning And Development Department

200 W. Washington St.
Phoenix, Arizona 85003

To find out about Phoenix construction code adoption news and to research your permits or projects, please visit http://www.phoenix.gov/PDD

Receipt # **16-0032061** **Payment Receipt**

Permit # **CMW 16014254** Date Paid 19-MAY-16 Print Date 19-MAY-16

Name: **MONITORING WELL ABANDONMENT- WCP-235**

Permit Address	3335 W FLOWER ST. PHOENIX AZ 85017

Project 16-1132
MONITORING WELLS 2016

Fee/Payment Detail

PEOTHPMT*	CIVIL OTHER PERMIT	$300.00
M/C/VISA	DARLA J HAREZA 047080 7	$300.00

Payment Totals

Fees Remaining on This Item:	$0.00	Fees:	$300.00
Web Inspection Key:	2268674	Amount Received:	$300.00
Cashier:	LMU	Change Due:	$0.00

BPRP02 - Rev: 10.1.0 11/23/09 bk

ARIZONA DEPARTMENT *of* WATER RESOURCES
3550 North Central Avenue, Second Floor
Phoenix, AZ 85012
602-771-8500
azwater.gov

June 6, 2016

ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY
1110 W WASHINGTON ST 4415B-1
ATTN:KEVIN SNYDER, PROJECT MANAGER
PHOENIX, AZ 85007

DOUGLAS A. DUCEY
Governor

THOMAS BUSCHATZKE
Director

Registration No. 55- 547462
File Number: A(2-2) 26 CBD

Dear Well Owner:

Enclosed is a copy of the Notice of Intent to Abandon a Well (NOI) which you or your driller recently filed with the Department of Water Resources. This letter is to inform you that the Department has approved the NOI and has mailed an abandonment authorization card to your designated well drilling contractor. The driller may not begin abandonment until he/she has received the authorization, and must keep it in their possession at the well site during the abandonment.

The well abandonment authorization card and a blank Well Abandonment Completion Report form (form 55-58) have been sent to your driller. Arizona statute [A.R.S. § 45-594] requires the driller to furnish the Department with a complete and accurate Well Abandonment Completion Report within thirty (30) days after completion of abandonment. Arizona statute also requires a well owner to submit a Well Owner's Notification of Abandonment form (form 55-36) within thirty (30) days after the well has been properly abandoned. A copy of the form is enclosed for your convenience. An electronic copy (compact disc or electronic file) of all video logs, if performed, must be included with the well owner's notification or Well Abandonment Completion Report. You should insist, and ensure, all of this is done.

If you change drillers, you must supply the Department with the new driller's identity on a Request to Change Well Information form (form 55-71A). Well abandonments shall be performed only by a licensed well drilling contractor or single well licensee.

Sincerely,

Groundwater Permitting and Wells Section

ARIZONA DEPARTMENT OF WATER RESOURCES
3550 North Central Avenue, Second Floor
Phoenix, Arizona 85012

ABANDON

NOTICE! This well is located in or near an area of groundwater contamination (WQARF/CERCLA/DOD or Other). Be advised that **special requirements may apply**.

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

WELL REGISTRATION NO: **55-547462**

AUTHORIZED DRILLER: **YELLOW JACKET DRILLING SERVICES, LLC** LICENSE NO: **78**

NOTICE OF INTENTION TO ABANDON ENV - MONITOR OR PIEZOMETER WELL(S) HAS BEEN FILED WITH THE DEPARTMENT BY:

WELL OWNER: **ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY 1110 W WASHINGTON ST 4415B-1 ATTN:KEVIN SNYDER, PROJECT MANAGER PHOENIX, AZ, 85007**

THE WELL(S) IS/ARE TO BE LOCATED IN THE:

SE 1/4 of the **NW** 1/4 of the **SW** 1/4 Section **26** Township **2.0** **NORTH** Range **2.0** **EAST**

NO. OF WELLS IN THIS PROJECT:

THIS AUTHORIZATION EXPIRES AT MIDNIGHT ON THE DAY OF

GROUNDWATER PERMITTING AND WELLS

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

ARIZONA DEPARTMENT OF WATER RESOURCES
Operations Division
500 North 3rd Street
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.

1. Owner Name: ADEQ
   Address: 3033 N. Central Ave. Phx., Az. 85012
   Street City State Zip

2. Driller Name: HEBER MINING & EXPLORATION CO.
   Address: 22010 N. 21st Ave. Phx., Az. 85027
   Street City State Zip

3. Location: 2 (N)S 2 (E)W 26 ¼ SE ¼ NW ¼ SW
   Township Range Section 10-acre 40-acre 160-acre

4. Well Registration No. 55- 547462 (Required)

5. Permit No. NA (If issued)

DESCRIPTION OF WELL

6. Total depth of hole 130 ft.
7. Type of casing PVC
8. Diameter and length of casing 4 in. from 0 to 125', _____ in from _____ to _____
9. Method of sealing at reduction points NA
10. Perforated from 85' to 125', from _____ to _____ from _____ to _____
11. Size of cuts .020 Number of cuts per foot 125
12. If screen was installed: Length 40 ft. Diam 4 in. Type PVC
13. Method of construction drilled w/ 6¼" I.D. hollow stem auger
    (drilled, dug, driven, bored, jetted, etc)
14. Date started Feb 6 1995
    Month Day Year
15. Date completed Feb 7 1995
    Month Day Year
16. Depth to water 95ft @ 12 hours ft. (If flowing well, so state)

17. Describe point from which depth measurements were made, and give sea-level elevation if available
    Existing ground near wells

18. If flowing well, state method of flow regulation: NA

19. Remarks: Set casing & screen to 125ft., filter pack to 82ft., bent. seal to 78 ft., grouted to the surface w/ approved vault @ surface.

DEPARTMENT OF WR
FEB 17 1995
OPERATIONS DIV

DO NOT WRITE IN THIS SPACE
OFFICE RECORD

Registration No. 55-547462
File No. A(2-2)26 cbd
Received _____ By _____
Entered ENTERED MAR 3 1995 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 wate is artesian, indicate depth at which encountered, and depth to which it rose in well.

From (feet)	To (feet)	Description of formation material
0	40'	Brn. Sandy Silty CLAY
40'	94'	Brn. Stratified SILT & SAND w/ Some Caliche & Gravel Lenses
94'	99'	Brn. SAND
99'	106'	Brn. Silty CLAY
106'	128'	Brn. SAND
128'	130'	Brn. Silty CLAY
		Bottom of Boring @ 130'
		Groundwater @ 95' @ 12 hrs.

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: P. Dan Ulses #269
Heber Mining & Explor. Co.

Street: 22010 N. 21st Ave

City: Phx., State: Az. Zip: 85027 Phone No.: 602-780-0023

Date: Feb 13, 1995

MONITOR/PIEZOMETER WELL

FILING FEE $10.00

WCP-10
95-6133-0203

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

RECEIVED 1995

MONITOR/PIEZOMETER WELL

FILING FEE $10.00

MR

NOTICE OF INTENTION TO DRILL MONITOR/PIEZOMETER WELL

Section § 45-596, Arizona Revised Statutes provide: Prior to drilling a monitor or piezometer well, a Notice of Intention to Drill shall be filed with the Department on a prescribed form.

1. WELL LOCATION:

2 N/~~S~~	2 E/~~W~~	26
Township	Range	Section

10 Acre Subdivision

SE 1/4 (10 ACRE) NW 1/4 (40 ACRE) SW 1/4 (160 ACRE)

2. Position location of the well on the land:

Latitude 33 0 29' 04"

Longitude 112 0 07' 50"

3. County: Maricopa

4. Owner of the land of wellsite:
City of Phoenix
Name
125 E Washington St
Address
Phoenix AZ 85004
City State Zip

5. Lessee of the land of wellsite:
N/A
Name
Address
City State Zip

6. Owner of well:
AZ Dept. of Env. Quality
Name
3033 N Central Ave
Address
Phoenix AZ 85012
City State Zip

7. Consulting Firm: EARTH TECH

Contact Person: Gary Bender

Phone: (602) 894-8482

8. Purpose of well drilled pursuant to this notice

Monitor X

Piezometer

9. If for deepening or modifying, Well Registration Number

55-

DO NOT WRITE IN THIS SPACE
OFFICE RECORD

File No. A(2-2)26CBD

Filed 1-10-95 By ek

Input ENTERED By FEB - 1 1995

DUPLICATE

Mailed 1-20-95 By ek

Registration 55- 547462

AMA/INA Phy

W/S 07 S/B 04

10. Construction will start:
02 06 95
Month Day Year

11. Period well will remain in use 10 ~~Months~~/Years

12. For monitoring wells, is pump equipment to be installed?

Yes ____ No XX

(a) If yes, design pump capacity

(b) What use will be made of the water water quality

13. Drilling firm:
Heber Drilling
Name
2210 N 21st Ave
Address
Phoenix AZ 85027
City State Zip

DWR License No. 269

073350
ROC Category

14. Will this proposed well pump Colorado River water? Yes ____ No X
(See condition VI on reverse)

15. Is the proposed wellsite within 100 feet of a septic tank system, sewage disposal area, landfill, hazardous waste facility, storage area of hazardous material or petroleum storage areas and tanks?
Yes ____ No X

VARIANCE GRANTED SPECIAL REQUIREMENT

16. Proposed method of abandonment of well after project is completed: Well will be backfilled with cement grout per R-12-15-816

17. Is this well to monitor existing contamination? ____ Potential contamination X Please explain: Installation for West Central Phoenix WQARF investigation being conducted by ADEQ

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. **Must be signed by land owner or lessee.**
4. 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.

THIS WELL IS TO BE DRILLED PURSUANT TO ARS 49.203.B.1 OR 49-287.J

I state that Notice is filed in compliance with Section § 45-596 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.

1-10-95

Michele I. Robertson, Rene D. Invest Supr Hydrologist
Signature of Land Owner or Lessee

18. If construction plans have been coordinated with Arizona Department of Environmental Qualtiy, who is the agency contact? Ms. Ana Vargas (207-4178)

If construction plans have been coordinated with Arizona Department of Water Resources, Hydrology/Water Quality Division, who is the division contact? N/A

19. WELL CONSTRUCTION PLAN

a) Drilling method (mud rotary, hollow-stem auger, etc.) Hollow - stem Auger

b) Borehole diameters: 10 inches from 0 feet to 130 feet.

____ inches from ____ feet to ____ feet.

c) Casing materials (PVC, steel, hollow-stem auger, etc.)

material Schedule 40 PVC diameter 4" inches from 0 feet to 130 feet

material ____ diameter ____ inches from ____ feet to ____ feet

d) Method of sealing at reductions N/A

e) Annular seal materials (cement, grout, etc.); method of placement (tremied, circulated)

material Grout method tremied from 0 feet to 85 feet

material Bentonite method tremied from 85 feet to 88 feet

f) Filter packs (state material):

material #3 Sand from 88 feet to 130 feet

material ____ from ____ feet to ____ feet

g) Perforations or screen specifications:

type Schedule 40 PVC 0.02 slotted from 90 feet to 130 feet

type ____ from ____ feet to ____ feet

h) Method of well development (bail, air lift, surge) Bail and surge

i) Will surface or conductor casing extend above grade: Yes ____ No X

20. Include detailed construction diagram showing expected water depth in feet below land surface, and details of vault, if specified.

CONDITIONS

I. Construction and abandonment standards for all wells shall be in accordance with A.A.C. 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, is required within 30 days of completion of drilling. A completion Report, is required to be filed with the Department within 30 days after installation of pump equipment for monitor wells.

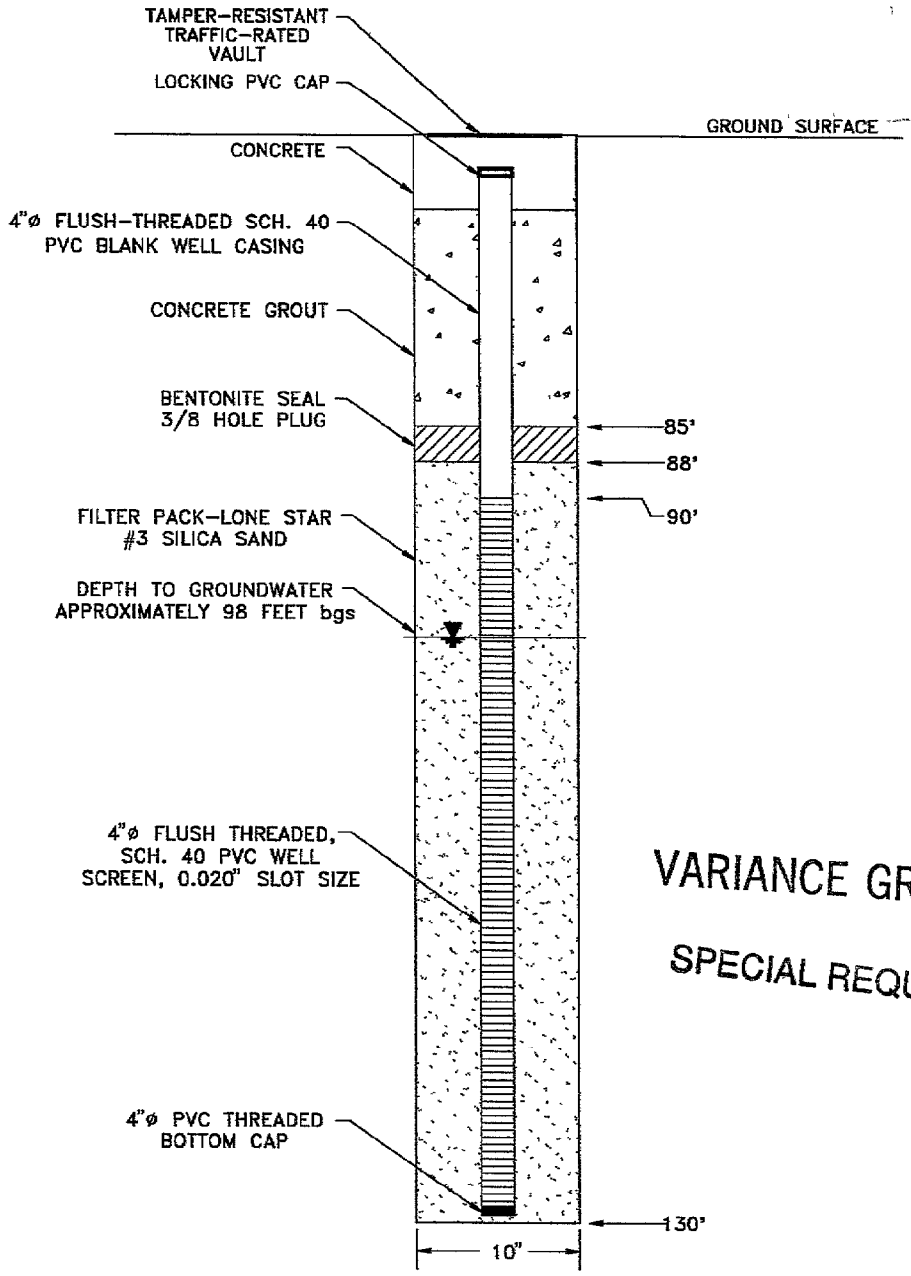
IV. Pump equipment may not be installed on a well drilled for piezometer purposes. If a monitor well is pumped, pumping is limited to the maximum amount required for monitor purposes, but in no case may exceed 35 gallons per minute and an annual volume of 10 acre feet total.

V. A.A.C. Rule R12-15-811.H.2, requires that: "A monitor well shall be identified as such on the vault cover or at the top of the steel casing. Identification information will include well registration number."

VI. If the proposed well is located near the Colorado River and if the proposed well may pump Colorado River Water, proof must be submitted with this notice that the applicant has the legal right to use Colorado River Water. Alternately, evidence needs to be submitted that supports the contention that Colorado River water will not be withdrawn by the well. Persons near the Colorado River may wish to contact the Colorado River Management Division, Department of Water Resources at (602) 542-1960 to determine those Townships and Ranges which will be affected by these requirements or with questions regarding the proof of right.

VII. Special construction standards required pursuant to A.A.C. Rule R12-15-821: ____

RECEIVED
U 1995



VARIANCE GRANTED

SPECIAL REQUIREMENT

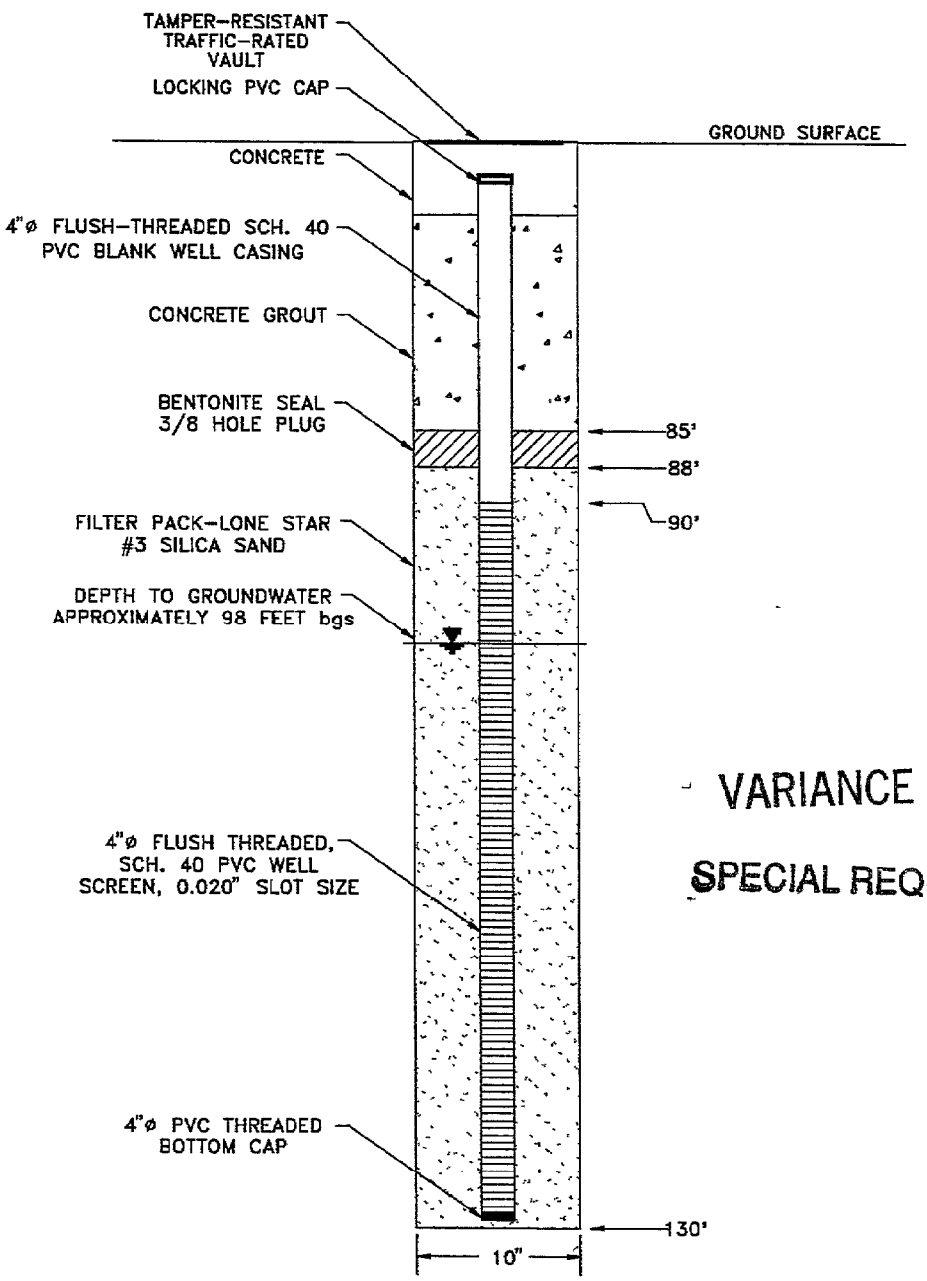
NOT TO SCALE

EARTH TECH	PROJECT NO. 95-6133-02 ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY

WEST CENTRAL PHOENIX PROJECT AREA
WQARF
PHOENIX, ARIZONA
MONITOR WELL DESIGN DETAIL WCP-10

1/95 FIGURE 1

Drawn By: TJT Last Date Revised: 1-5-95 File Name: C:\ET\956133\0203\MWELL.DWG Plot Scale: 1=1



VARIANCE GRANTED

SPECIAL REQUIREMENT

NOT TO SCALE

EARTH TECH

PROJECT NO. 95-6133-02
ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY

WEST CENTRAL PHOENIX PROJECT AREA
WQARF
PHOENIX, ARIZONA
MONITOR WELL DESIGN DETAIL WCP-10

1/95

FIGURE 1

Drawn By: TJT Last Date Revised 1-5-95 File Name: C:\ET\956133\0203\MWELL.DWG Plot Scale: 1=1

HEBER MINING & EXPLORATION COMPANY

multi-purpose drill rigs for geotechnical & mineral exploration
monitoring wells • hazardous waste studies

Service Since 1981

January 17, 1995

7 95

Ms. Ellen Kane
Arizona Department of Water Resources
500 North Third Street
Phoenix, AZ 85007

RE: **REQUEST FOR VARIANCE FOR A MONITORING WELL PROPOSED AT:**
T2N R2E SECTION 26 SW SW NW

Dear Ms. Kane:

We have been requested by our client for this project, The Earth Technology Corp., to request a variance for the above referenced well.

The variance desired is for the use of PVC casing to the ground surface in lieu of the specified steel casing.

This request is made as this well will be completed in an approved vault, flush at the ground surface and therefore, not subject to potential traffic related damage associated with an above ground completion.

Thank you in advance for your assistance in this matter. Should there by any questions concerning the design of this well, please contact Mr. Gary Bender, TETC, at 602-894-8482 directly.

Respectfully submitted,

HEBER MINING & EXPLORATION COMPANY

P. Don Ulses

P. Don Ulses, C.E.T.
President

PDU/ljp

F:\wp51\adwr\tetc112.ljp

22010 North 21st Avenue • Phoenix, Arizona 85027
(602) 780-0023 - Phoenix • (602) 535-4084 - Heber • (602) 780-0026 - Fax

HEBER MINING & EXPLORATION COMPANY

multi-purpose drill rigs for geotechnical & mineral exploration
monitoring wells • hazardous waste studies

Service Since 1981

January 17, 1995

Ms. Ellen Kane
Arizona Department of Water Resources
500 North Third Street
Phoenix, AZ 85007

RE: **REQUEST FOR VARIANCE FOR A MONITORING WELL PROPOSED AT:**
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Thank you in advance for your assistance in this matter. Should there by any questions concerning the design of this well, please contact Mr. Gary Bender, TETC, at 602-894-8482 directly.

Respectfully submitted,

HEBER MINING & EXPLORATION COMPANY

P. Don Ulses, C.E.T.
President

PDU/ljp

F:\wp51\adwr\tetc112.ljp

22010 North 21st Avenue • Phoenix, Arizona 85027
(602) 780-0023 - Phoenix • (602) 535-4084 - Heber • (602) 780-0026 - Fax

MONITOR/PIEZOMETER WELL

FILING FEE $10.00

WCP-11
95-6133-0303

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

MONITOR/PIEZOMETER WELL

FILING FEE $10.00

NOTICE OF INTENTION TO DRILL MONITOR/PIEZOMETER WELL

Section § 45-596, Arizona Revised Statutes provide: Prior to drilling a monitor or piezometer well, a Notice of Intention to Drill shall be filed with the Department on a prescribed form.

1. WELL LOCATION:
   2 N/~~S~~ | 2 E/~~W~~ | 26
   Township | Range | Section

   10 Acre Subdivision

   SW 1/4 (10 ACRE) SW 1/4 (40 ACRE) NW 1/4 (160 ACRE)

2. Position location of the well on the land:

   Latitude 33 0 29' 13 "

   Longitude 112 0 07' 57 "

3. County: Maricopa

4. Owner of the land of wellsite:
   City of Phoenix
   Name
   125 E Washington St
   Address
   Phoenix AZ 85004
   City State Zip

5. Lessee of the land of wellsite:
   N/A
   Name

   Address

   City State Zip

6. Owner of well:
   AZ Dept. of Env. Quality
   Name
   3033 N Central Ave
   Address
   Phoenix AZ 85012
   City State Zip

7. Consulting Firm: EARTH TECH

   Contact Person: Gary Bender

   Phone: (602) 894-8482

8. Purpose of well drilled pursuant to this notice

   Monitor X

   Piezometer

9. If for deepening or modifying, Well Registration Number

   55-

DO NOT WRITE IN THIS SPACE
OFFICE RECORD

File No.

Filed By

Input By

DUPLICATE

Mailed By

Registration 55-

AMA/INA

W/S S/B

10. Construction will start:
    02 06 95
    Month Day Year

11. Period well will remain in use 10 ~~MXXXX~~/Years

12. For monitoring wells, is pump equipment to be installed?

    Yes ____ No XX

    (a) If yes, design pump capacity

    (b) What use will be made of the water water quality

13. Drilling firm:
    Heber Drilling
    Name
    2210 N 21st Ave
    Address
    Phoenix AZ 85027
    City State Zip

    DWR License No. 269

    073350
    ROC Category

14. Will this proposed well pump Colorado River water? Yes ____ No X
    (See condition VI on reverse)

15. Is the proposed wellsite within 100 feet of a septic tank system, sewage disposal area, landfill, hazardous waste facility, storage area of hazardous material or petroleum storage areas and tanks?
    Yes ____ No X

16. Proposed method of abandonment of well after project is completed Well will be backfilled with cement grout per R-12-15-816

17. Is this well to monitor existing contamination? ____ Potential contamination X. Please explain: Installation for West Central Phoenix WQARF investigation being conducted by ADEQ

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. **Must be signed by land owner or lessee.**
4. 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 Notice is filed in compliance with Section § 45-596 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.

18. If construction plans have been coordinated with Arizona Department of Environmental Qualtiy, who is the agency contact? Ms. Ana Vargas (207-4178)
If construction plans have been coordinated with Arizona Department of Water Resources, Hydrology/Water Quality Division, who is the division contact? N/A

19. WELL CONSTRUCTION PLAN
a) Drilling method (mud rotary, hollow-stem auger, etc.) Hollow - stem Auger
b) Borehole diameters: 10 inches from 0 feet to 130 feet.
_____ inches from _____ feet to _____ feet.
c) Casing materials (PVC, steel, hollow-stem auger, etc.)
material Schedule 40 PVC diameter 4" inches from 0 feet to 130 feet
material _____ diameter _____ inches from _____ feet to _____ feet
d) Method of sealing at reductions N/A
e) Annular seal materials (cement, grout, etc.); method of placement (tremied, circulated)
material Grout method tremied from 0 feet to 85 feet
material Bentonite method tremied from 85 feet to 88 feet
f) Filter packs (state material):
material #3 Sand from 88 feet to 130 feet
material _____ from _____ feet to _____ feet
g) Perforations or screen specifications:
type Schedule 40 PVC 0.02 slotted from 90 feet to 130 feet
type _____ from _____ feet to _____ feet
h) Method of well development (bail, air lift, surge) Bail and surge
i) Will surface or conductor casing extend above grade: Yes ____ No X

20. Include detailed construction diagram showing expected water depth in feet below land surface, and details of vault, if specified.

CONDITIONS

I. Construction and abandonment standards for all wells shall be in accordance with A.A.C. 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, is required within 30 days of completion of drilling. A completion Report, is required to be filed with the Department within 30 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 maximum amount required for monitor purposes, but in no case may exceed 35 gallons per minute and an annual volume of 10 acre feet total.

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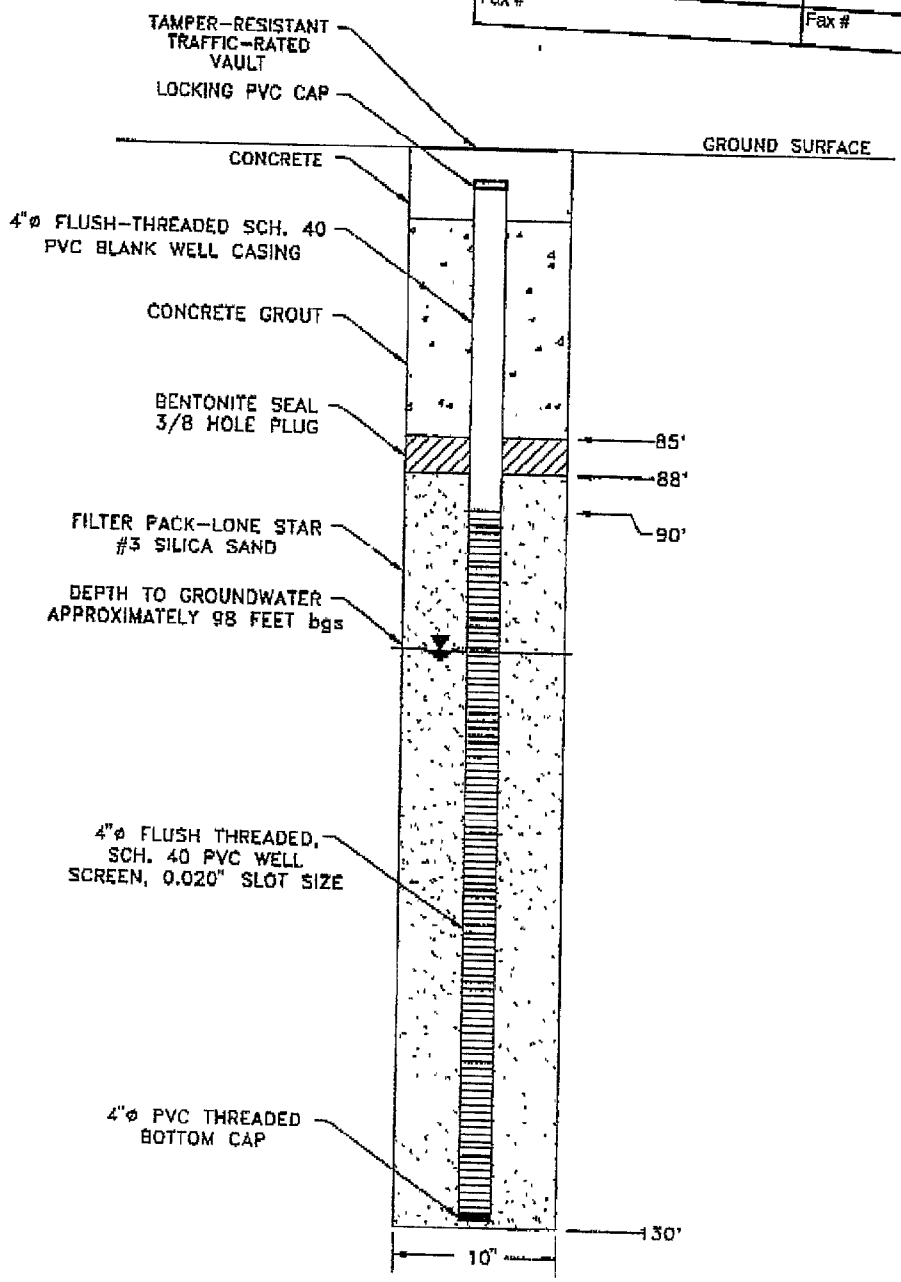
VI. If the proposed well is located near the Colorado River and if the proposed well may pump Colorado River Water, proof must be submitted with this notice that the applicant has the legal right to use Colorado River Water. Alternately, evidence needs to be submitted that supports the contention that Colorado River water will not be withdrawn by the well. Persons near the Colorado River may wish to contact the Colorado River Management Division, Department of Water Resources at (602) 542-1960 to determine those Townships and Ranges which will be affected by these requirements or with questions regarding the proof of right.

VII. Special construction standards required pursuant to A.A.C. Rule R12-15-821: _____

Post-it® Fax Note 7671

To Don Ulsses	Date 1/11/95 # of pages ▶ 6
Co./Dept	From Gary Bender
Phone #	Co
Fax #	Phone #
	Fax #



EARTH TECH

PROJECT NO. 95-6133-03
ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY

WEST CENTRAL PHOENIX PROJECT AREA
WQARF

TJF Last Date Revised: 1-5-95 File Name: C:\ET\956133\0303\MWELL.DWG Plot Scale: 1=1

HEBER MINING & EXPLORATION COMPANY

multi-purpose drill rigs for geotechnical & mineral exploration
monitoring wells • hazardous waste studies

Service Since 1981

January 17, 1995

Ms. Ellen Kane
Arizona Department of Water Resources
500 North Third Street
Phoenix, AZ 85007

RE: **REQUEST FOR VARIANCE FOR A MONITORING WELL PROPOSED AT:**
T2N R2E SECTION 26 SE NW SW

Dear Ms. Kane:

We have been requested by our client for this project, The Earth Technology Corp., to request a variance for the above referenced well.

The variance desired is for the use of PVC casing to the ground surface in lieu of the specified steel casing.

This request is made as this well will be completed in an approved vault, flush at the ground surface and therefore, not subject to potential traffic related damage associated with an above ground completion.

Thank you in advance for your assistance in this matter. Should there by any questions concerning the design of this well, please contact Mr. Gary Bender, TETC, at 602-894-8482 directly.

Respectfully submitted,

HEBER MINING & EXPLORATION COMPANY

P. Don Ulses, C.E.T.
President - ADWR 269

PDU/ljp

F\wp51\adwr\tetc#2 ljp

22010 North 21st Avenue • Phoenix, Arizona 85027
(602) 780-0023 - Phoenix • (602) 535-4084 - Heber • (602) 780-0026 - Fax

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multi-purpose drill rigs for geotechnical & mineral exploration
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PDU/ljp

F\wp51\adwr\teto#2 ljp

22010 North 21st Avenue • Phoenix, Arizona 85027
(602) 780-0023 - Phoenix • (602) 535-4084 - Heber • (602) 780-0026 - Fax

MONITOR/PIEZOMETER WELL

FILING FEE $10.00

WCP-10
95-6133-0203

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

NOTICE OF INTENTION TO DRILL MONITOR/PIEZOMETER WELL

MONITOR/PIEZOMETER WELL

FILING FEE $10.00

Section § 45-596, Arizona Revised Statutes provide: Prior to drilling a monitor or piezometer well, a Notice of Intention to Drill shall be filed with the Department on a prescribed form.

1. WELL LOCATION:

   2 N/S | 2 E/W | 26
   Township | Range | Section

   10 Acre Subdivision

   SE 1/4 NW 1/4 SW 1/4
   10 ACRE 40 ACRE 160 ACRE

2. Position location of the well on the land:

   Latitude 33 0 29' 04 "

   Longitude 112 0 07' 50 "

3. County: Maricopa

4. Owner of the land of wellsite:
   City of Phoenix
   Name
   125 E Washington St
   Address
   Phoenix AZ 85004
   City State Zip

5. Lessee of the land of wellsite:
   N/A
   Name
   Address
   City State Zip

6. Owner of well:
   AZ Dept. of Env. Quality
   Name
   3033 N Central Ave
   Address
   Phoenix AZ 85012
   City State Zip

7. Consulting Firm: EARTH TECH

   Contact Person: Gary Bender

   Phone: (602) 894-8482

8. Purpose of well drilled pursuant to this notice

   Monitor X

   Piezometer

9. If for deepening or modifying, Well Registration Number

   55-

DO NOT WRITE IN THIS SPACE
OFFICE RECORD

File No.

Filed By

Input By

DUPLICATE

Mailed By

Registration 55-

AMA/INA

W/S S/B

10. Construction will start:
    02 06 95
    Month Day Year

11. Period well will remain in use 10 ~~MONTHS~~/Years

12. For monitoring wells, is pump equipment to be installed?

    Yes No XX

    (a) If yes, design pump capacity

    (b) What use will be made of the water water quality

13. Drilling firm:
    Heber Drilling
    Name
    2210 N 21st Ave
    Address
    Phoenix AZ 85027
    City State Zip

    DWR License No. 269

    073350
    ROC Category

14. Will this proposed well pump Colorado River water? Yes No X
    (See condition VI on reverse)

15. Is the proposed wellsite within 100 feet of a septic tank system, sewage disposal area, landfill, hazardous waste facility, storage area of hazardous material or petroleum storage areas and tanks?
    Yes No X

16. Proposed method of abandonment of well after project is completed: Well will be backfilled with cement grout per R-12-15-816

17. Is this well to monitor existing contamination? Potential contamination X Please explain: Installation for West Central Phoenix WQARF investigation being conducted by ADEQ

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. Must be signed by land owner or lessee.
4. 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 Notice is filed in compliance with Section § 45-596 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.

18. If construction plans have been coordinated with Arizona Department of Environmental Qualtiy, who is the agency contact? Ms. Ana Vargas (207-4178)

If construction plans have been coordinated with Arizona Department of Water Resources, Hydrology/Water Quality Division, who is the division contact? N/A

19. WELL CONSTRUCTION PLAN

a) Drilling method (mud rotary, hollow-stem auger, etc.) Hollow - stem Auger

b) Borehole diameters: 10 inches from 0 feet to 130 feet.

_____ inches from _____ feet to _____ feet.

c) Casing materials (PVC, steel, hollow-stem auger, etc.)

material Schedule 40 PVC diameter 4" inches from 0 feet to 130 feet

material _____ diameter _____ inches from _____ feet to _____ feet

d) Method of sealing at reductions N/A

e) Annular seal materials (cement, grout, etc.); method of placement (tremied, circulated)

material Grout method tremied from 0 feet to 85 feet

material Bentonite method tremied from 85 feet to 88 feet

f) Filter packs (state material):

material #3 Sand from 88 feet to 130 feet

material _____ from _____ feet to _____ feet

g) Perforations or screen specifications:

type Schedule 40 PVC 0.02 slotted from 90 feet to 130 feet

type _____ from _____ feet to _____ feet

h) Method of well development (bail, air lift, surge) Bail and surge

i) Will surface or conductor casing extend above grade: Yes ____ No X

20. Include detailed construction diagram showing expected water depth in feet below land surface, and details of vault, if specified.

CONDITIONS

I. Construction and abandonment standards for all wells shall be in accordance with A.A.C. R12-15-811 and R12-15-816.

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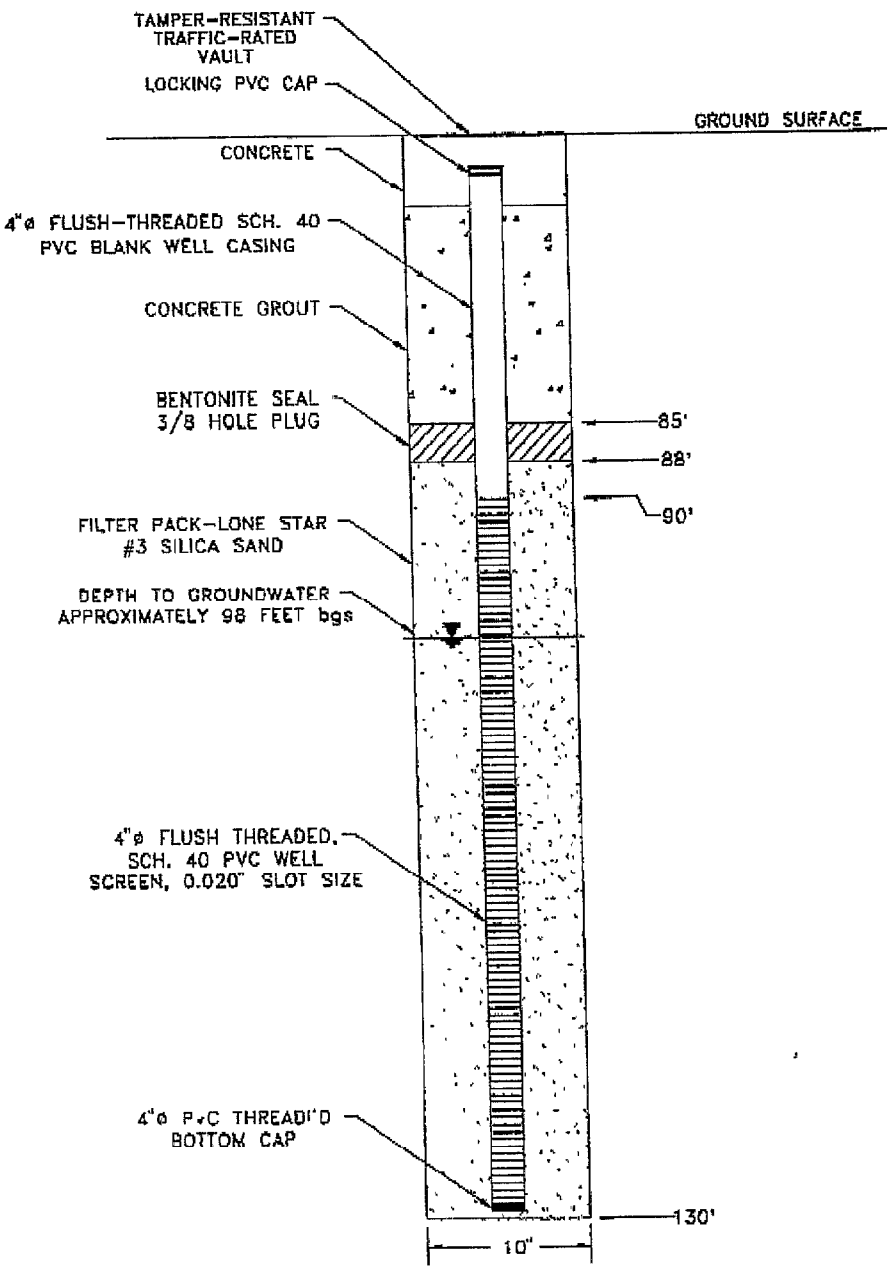
VII. Special construction standards required pursuant to A.A.C. Rule R12-15-821: _____



NOT TO SCALE

EARTH TECH

PROJECT NO. 95-6133-02
ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY

WEST CENTRAL PHOENIX PROJECT AREA
WQARF
PHOENIX, ARIZONA
MONITOR WELL DESIGN DETAIL WCP-10

1/95

FIGURE 1

Drawn By: TJT Last Date Revised: 1-5-95 File Name: C:\ET\95\6133\0203\UWELL.DWG Plot Scale: 1=1

ARIZONA DEPARTMENT OF WATER RESOURCES
Hydrology Division
Park Place
500 North Third Street, Phoenix, Arizona 85004
Telephone (602) 417-2448
Fax (602) 417-2401

FIFE SYMINGTON
Governor

RITA P PEARSON
Director

January 19, 1995

Heber Drilling
22010 N. 21st Avenue
Phoenix, Arizona 85027
ATTN: Don Ulses

Re: Variance for Construction of Two Monitor Wells
Registration Numbers 55-547461 and 55-547462

Dear Mr. Ulses:

The Arizona Department of Water Resources received your request dated January 17, 1995 for a variance for construction of two monitor wells to be located in Maricopa County. The purpose of these wells will be to evaluate potential groundwater contamination.

The Arizona Department of Water Resources approves this request for the following variance:

- Thermoplastic casings (risers) with a watertight cap may be used in lieu of steel casings (R12-15-811.B.1).

The following *special requirements* are conditions for this variance (R12-15-821.):

- The wells shall be completed flush-to-ground with vandalproof, traffic-rated vaults per ASTM Standard Guide D5092, Section 8.9.2.3.

- The PVC inner casings (risers) shall comply with ASTM Standard Guide D5092, Section 6.5.

- The wells shall be constructed per the "Variance Granted" Notice of Intention to Drill.

- The wells shall be abandoned (decommissioned) per ASTM Standard Guide D5299, Section 7.3.8.

If you have any questions, please contact James Goff of my staff at (602) 417-2400 ext.# 7325.

Sincerely,

Greg Wallace

Greg Wallace
Chief Hydrologist

GW/JG/ef

ARIZONA DEPARTMENT OF WATER RESOURCES

500 N 3RD ST., PHOENIX, AZ. 85004
Telephone (602) 417-2470
Fax (602) 417-2401

FIFE SYMINGTON
Governor

RITA P. PEARSON
Director

January 20, 1995

ADEQ
3033 N. CENTRAL AVE.
PHOENIX, AZ. 85012

RE: Registration No. 55-547461 55-547462

File No. VARIOUS

Dear Well Owner:

Enclosed for your records is an annotated copy of the Notice of Intention to Drill a well. This is returned to you as evidence of compliance with A.R.S. §45-596. A drilling card has been mailed to your designated driller. Prior to drilling he must have it in his possession.

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. He is required to complete it and return it to the Department within 30 days after the completion of the well. A Completion Report form is being furnished for monitor wells where pump installation is authorized. This must be completed within thirty days of installation as required by A.R.S. §45-600.

A Change of Well Information form is enclosed for your future use . If you deem it necessary to change the location of the proposed well, please notify the Department on the enclosed form. A properly amended Drilling Card will then be issued and must be in possession of the driller before drilling begins. During the drilling of a new well, if it is determined that it must be abandoned, then a Well Abandonment Completion Report must be submitted per R12-15-816.F.

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, in order to keep the well registration file current and accurate.

For additional information, you may contact the Operations Division at (602) 542-1581.

Sincerely,

Ellen Kane

Ellen Kane
Groundwater Permit Specialist

ARIZONA DEPARTMENT OF WATER RESOURCES

OPERATIONS DIVISION

500 North Third Street
Phoenix, Arizona 85004-3903
Phone (602) 417-2470

DUPLICATE

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

WELL REGISTRATION NO. 55-547462

AUTHORIZED DRILLER: HEBER DRILLING CO. LICENSE NO. 269

NOTICE OF INTENTION TO DRILL A MONITOR WELL HAS BEEN FILED WITH THE DEPARTMENT BY:

Owner of Well(s)
ADEQ 3033 N. CENTRAL AVE. PHOENIX AZ 85012

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

SE 1/4	NW 1/4	SW 1/4	Section 26	Township 2.0 NORTH	Range 2.0 EAST
10 acre	40 acre	160 acre			

NUMBER OF WELLS IN PROJECT: 1

THIS AUTHORIZATION EXPIRES AT MIDNIGHT ON JAN 9TH, 1996

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

VARIANCE GRANTED

CHIEF, OPERATIONS DIVISION

RECEIPT

17368

THE EARTH TECH. CORP.
1501 W2 FOUNTAINHEAD PKWY S350
TEMPE, AZ. 85282

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

ENTRY CODE 55

FILE NO. VARIOUS 547461 **THRU** 547462

ITEM DESCRIPTION	RATE	AMOUNT
FILING FEE FOR 101 TO DRILL WELLS	$10.00	$20.00
1/17/95/ek CK#11850 $10.00 #11852 $10.00		$20.00

PAID
JAN 17 1995
PAID

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

CHIT NO. _____ RECEIVED BY _____ DATE _____

IPS 1821 – Rev 4/91