

NECESSARY STEPS AND INSTRUCTIONS TO OBTAIN DRILLING AUTHORITY

1. Arizona Revised Statute ("A.R.S.") § 45-596 requires the well owner, lessee or exploration firm to file two original Notices of Intention to Drill with original signatures prior to drilling an exploration well. More than one well (hole) may be drilled under a single Notice of Intent for mineral exploration and geotechnical wells, as long as they are located within a single section.
2. Information to complete items 1, 2 and 13 should be on your county tax receipt or available at the County Assessor's Office. The location of mineral exploration and geotechnical wells may be limited to the section, township and range. However, a complete legal description may be provided at the option of the well owner.
3. Information to complete items 8, 9 and 10 should be available from your driller.
4. Should any entity other than the well owner, lessee or exploration firm sign the Notice of Intent an original **notarized** letter of authorization from the well owner, lessee or exploration firm must accompany the Notices.
5. In accordance with A.R.S. § 45-113, please submit a \$10.00 processing fee with the Notice. Mail them to P. O. Box 458, Phoenix, Arizona, 85001-0458, or hand deliver to 500 North Third Street, Phoenix, Arizona.

CONSTRUCTION AND FOLLOW-UP REQUIREMENTS

1. Construction and abandonment standards for all wells must be in accordance with Department Rules.
2. No drilling authority is necessary for mineral exploration, geotechnical, cathodic protection, grounding and heat pump holes of 100 feet of depth or less. However, if water is encountered during the drilling of these well(s), the well(s) must be abandoned in accordance with Arizona Administrative Code ("A.A.C.") R12-15-816.
3. The drilling contractor is not required to file a Notice of Intent to Abandon if the well(s) are abandoned in the course of drilling, however, the drilling rig must not be removed from the well site before the abandonment is complete, otherwise, a Notice of Intent to Abandon must be filed prior to abandonment, and abandonment may not commence until Department authority has been issued. A geotechnical well with a granted variance must be abandoned before the drilling rig is removed from the site.
4. Whether or not an abandonment authorization card was issued or required, Arizona Administrative Code R12-15-816(F) requires a Well Abandonment Completion Report be filed within 30 days of abandonment.
5. Pursuant to A.R.S. § 45-596(E), drilling of well(s) must be completed within one year after the date of the Notice of Intent. If the well(s) are not completed within one year, a new Notice of Intent to Drill must be filed with the Department before proceeding with further construction.
6. Within thirty (30) days of completion of drilling geotechnical, cathodic protection, grounding or heat pump wells, a Well Driller Report and Log of Well form must be filed. Within thirty (30) days of completion of drilling mineral exploration holes, a Project Completion Report form must be filed. If the drilling project included multiple holes (authorized by the issuance of a single drill card for the project as a whole), a single report will suffice, however, a cover letter identifying the number of holes drilled, unusual problems associated with the project, or variations in hole design should be included.
7. Pump equipment may not be installed in wells (holes) drilled for mineral exploration, geotechnical, cathodic protection or grounding purposes.

TIME FRAME FOR REVIEW OF YOUR APPLICATION

Within fifteen (15) days after receipt of your Notice of Intention, the Department will determine whether your application should be granted or denied, unless this time is extended because your application is deemed incomplete or incorrect.

If your application is incomplete or incorrect, the Department will notify you in writing and will specify what information is necessary to make the application complete and correct. Until the missing information is received, the time frame for review of your application will be suspended. Your application will not be complete and correct until all of the requested information is received. If you do not supply the missing information within sixty (60) days, the Department may deem your application for drilling authority withdrawn and close the file.

At the end of its review, the Department will send you written notice either granting or denying your application for drilling authority. If your application is approved, the Drill Card will be mailed directly to the drilling company. If denied, the Department's notice will state justification for the denial and an explanation of your right to appeal.

ARIZONA DEPARTMENT OF WATER RESOURCES
GROUNDWATER MANAGEMENT SUPPORT SECTION
500 North Third Street
Phoenix, Arizona 85004

GEOTECHNICAL WELL VARIANCE ISSUED

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

WELL REGISTRATION NO: 55-585321

AUTHORIZED DRILLER: GEOMECHANICS SOUTHWEST, INC.

LICENSE NO: 498

NOTICE OF INTENTION TO DRILL A GEOTECHNICAL WELL(S) HAS BEEN FILED WITH THE DEPARTMENT BY:

WELL OWNER: CITY OF TUCSON 201 N STONE AVE TUCSON, AZ 85701

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

¼ of the ¼ of the ¼ Section 11 Township 14 SOUTH Range 13 EAST

No. of wells in this project: 20

THIS AUTHORIZATION EXPIRES AT MIDNIGHT ON THE 18TH DAY OF JANUARY, 2002



GROUNDWATER MANAGEMENT SUPPORT

**THE DRILLER MUST FILE A LOG OF THE WELL
WITHIN 30 DAYS OF COMPLETION OF DRILLING**



ARIZONA DEPARTMENT OF WATER RESOURCES

Water Quality Assurance Program
500 North Third Street, Phoenix, Arizona 85004
Telephone 602 417-2473
Fax 602 417-2426



JANE DEE HULL
Governor

**RITA PEARSON
MAGUIRE**
Director

January 30, 2001

AMEC
Attn: Clyde Pretti, P.E.
1425 E. Apache Park Pl.
Tucson, Arizona 85742

RE: Well Registration Nos. 55-585320 and 55-585321

Dear Mr. Pretti:

The Department of Water Resources recently received your Notice of Intention to Drill two (2) geotechnical wells in Township 14 South, Range 13 East, Section 11. This location has been determined to be in proximity to a contaminated groundwater area known as the 7th Street and Arizona Avenue Water Quality Assurance Revolving Fund (WQARF) remedial site.

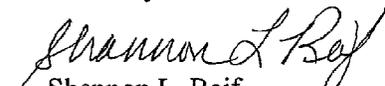
Please be advised that according to R12-15-851, you are required to notify the Department at least two (2) business days in advance of commencement of well drilling activities for the above referenced wells. You may submit this required notice to the Department by either letter or facsimile, and the Department must receive it at least two (2) business days prior to drilling.

Mailing Address:
Water Quality Assurance Program
Arizona Department of Water Resources
500 N. 3rd Street
Phoenix, AZ 85004

Facsimile Number:
(602) 417-2426

If you have any questions, please contact the WQARF Section at (602) 417-2473.

Sincerely,


Shannon L. Reif
Water Quality Section

ARIZONA DEPARTMENT OF WATER RESOURCES

500 North 3rd Street, Phoenix, Arizona 85004

Telephone (602) 417-2470

Fax (602) 417-2422



JANE DEE HULL

Governor

RITA PEARSON MAGUIRE

Director

CITY OF TUCSON
201 N STONE AVE
TUCSON, AZ 85701

Registration No. 55-585321

File No. D(14-13) 11

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.

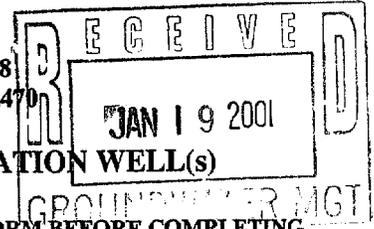
Sincerely,

A handwritten signature in cursive script that reads "Toni Bergeman".

Toni Bergeman
Water Resource Technician
Groundwater Management Support Section

Enclosures

ARIZONA DEPARTMENT OF WATER RESOURCES
 GROUNDWATER MANAGEMENT SUPPORT SECTION
 MAIL TO: P.O. BOX 458, PHOENIX, ARIZONA 85001-0458
 FOR INFORMATION CALL: MONICA ORTIZ AT 602-417-2470



NOTICE OF INTENTION TO DRILL AND ABANDON EXPLORATION WELL(S)

PLEASE READ GENERAL INSTRUCTIONS AND LIMITATIONS ON REVERSE SIDE OF THIS FORM BEFORE COMPLETING.

1. WELL / LAND LOCATION:

1/4 1/4 1/4
 10 ACRE 40 ACRE 160 ACRE

Section: 11

Township: 14 S N/S

Range: 13E E/W

2. County: Pima

3. AMEC
 Applicant Name/Lessee (Circle one)

1425 E. Apache Park Pl
 Address

Tucson Az 85742
 City State Zip

Clyde Pretti, P.E.
 Name of Contact Person

Phone Number: 520.573.2045

5. Purpose of well(s) drilled pursuant to this Notice:

Mineral Exploration _____

Geotechnical with variance

Cathodic Protection _____

Grounding _____

Heat Pump _____

6. Number of Wells (Holes) 20

7. Owner of Land of Wellsite:

City of Tucson

Name

201 N. Stone Ave

Address

Tucson, Az 85201

City State Zip

Richard Byrd

Contact Person

Phone Number: 520.791.5414

DO NOT WRITE IN THIS SPACE

8. DESCRIPTION OF THE WELL:

Diameter 11 inches

Depth 125 feet

Type of casing. If none, state:

none

9. Construction will start:

2 1 2001

Month Day Year

10. Drilling Firm:

Geomechanics Southwest

Name

7400 S. Nogales Hwy

Address

Tucson, Az 85706

City State Zip

Phone Number 520.889.7787

498

DWR License Number

079441 A04

ROC License Category

Is the well to be available for re-entry?

Yes _____ No X

If so, for how long? _____

to grout

_____ pursuant to R12-15-816.

AGRA EARTH AND ENVIRONMENTAL, INC. 11-24 4066
 TUCSON IMPREST 1210(8)
 PH. 425-820-4669
 11335 NE. 122ND WAY, STE. 100
 BELLEVUE, WA 98034-6918
 DATE 1/9/01
 PAY TO THE ORDER OF Ariz Dept. of Water Resources \$10,00
Ten And 00/100 DOLLARS Security Features include: Microprint on back
WELLS FARGO BANK TWO SIGNATURES REQUIRED OVER \$1,000.00
 MEMO Drill Permit [Signature] [Signature] MP

13. Is the proposed wellsite within 100 feet of a septic tank system, sewage disposal area, landfill, hazardous waste facility, storage area of hazardous materials or petroleum storage area and tanks? Yes x No _____

I state that this Notice is filed in compliance with Rule A.A.C. R12-15-809 and R12-15-816(F), 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.

14. [Signature]
 Signature of Land Owner, Lessee or Exploration Firm

1-17-01
 Date

10 WELL REGISTRY No. 55-585320-21 CADASTRAL LOCATION: D(14-13)11
 Date Received 1-19-01 Date to Water Quality ~~1-29-01~~ 1-30-01
 Date Returned to GMSS 02/01/01 Date to Hydrology 01-30-01

Variance Letter Received Yes _____ No
 Well diagram Received Yes _____ No

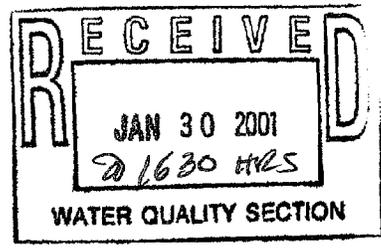
TYPE OF WELL:

Monitor/Piezometer _____ Other _____
 Domestic _____ NOI to Abandon _____
 Geotechnical 2 _____

WATER QUALITY - WOARF ANALYST COMMENTS:

Drilling 2 geotechnical wells located in the
buffer zone of the "7th Street & AZ. Ave" WOARF site
7th

Site Map attached - Referred to Hydrologist
 Subbasin Map attached - Returned to GMSS _____



WATER QUALITY APPROVAL:

Granted
 Not granted _____
 Letter issued

Signature: Shannon L. Beef Date: 01-30-01

HYDROLOGY DIVISION - WOARF HYDROLOGIST COMMENTS:

55-585320 D(14-13)11 20 holes/geotechnical with Variance
55-585321 D(14-13)11 20 holes/geotechnical with Variance
located within 100 feet of a landfill:
"Rio Nuevo North"

HYDROLOGY DIVISION APPROVAL:

Granted
 Not Granted _____
 Letter Issued _____

Variance Not Required _____
 Granted no letter needed
 Not Granted _____
 Letter issued _____

Signature: Shannon L. Beef Date: 02/01/01

HB