ZELEN
1830 E. BROADWAY 124-256, TUCSON, AZ 85719
TEL. (520) 884-1846, FAX 1-775-796-8858
ZELENENVIRONMENTAL.COM

COPY

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OCT 19 2007
WATER RIGHTS

October 18, 2007

Arizona Department of Water Resources
3550 North Central Avenue, Suite 200
Phoenix, AZ 85012

Attn: Shannon Reif DENAE!

Enclosed are seven Notice of Intent to Abandon forms for the Toot 'n Moo project in South Tucson. With the six abandonment permits previously issued, this should cover all of the wells drilled in association with this project.

Please cancel the applications previously submitted for registration numbers 55-580457, 55-580458 and 55-580459. It appears that these wells were never installed.

If you have any questions please give me a call.

Sincerely,
Zelen Environmental

Dennis V. Krantz
Project Manager

WITHDRAWN

9

Arizona Department of Water Resources
Water Management Support Section
P.O. Box 33589 Phoenix, Arizona 85067-3589
(602) 771-8500 • (800) 352-8488
www.azwater.gov

Notice of Intent to Abandon a Well

NO FEE

- 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.

** PLEASE PRINT CLEARLY **

AMA/INA	B	SB
TUC		14
RECEIVED DATE	WS	
9.25.07		9
ISSUED DATE	WQARF	CERCLA
		LLL

FILE NUMBER: D(14-13)25ABC
WELL REGISTRATION NUMBER: 55 - 580459

SECTION 1. REGISTRY INFORMATION

Well Type

CHECK ONE

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WATER MGMT

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

ORIGINAL WELL OWNER (IF KNOWN): ADEQ

ORIGINAL WELL DRILLING FIRM (IF KNOWN): ~~YELLOW CABLES~~ GEO-mach 78

DRILL DATE (IF KNOWN): 2/2000

Location of Well

WELL LOCATION ADDRESS (IF ANY): 2802 South 6th

TOWNSHIP (N/S)	RANGE (E/W)	SECTION	160 ACRE	40 ACRE	10 ACRE
14	13	25	SW¼	NW¼	NE¼

COUNTY ASSESSOR'S PARCEL ID NUMBER BOOK	MAP	PARCEL	COUNTY WHERE WELL IS LOCATED
119	20 02 (NO)	123C	PIMA

LATITUDE			LONGITUDE		
32° Degrees	11 Minutes	20" N Seconds	110° Degrees	58 Minutes	57" W Seconds

METHOD OF LATITUDE/LONGITUDE (CHECK ONE): ☐ *GPS: Hand-Held ☐ USGS Quad Map ☐ Conventional Survey ☐ *GPS: Survey-Grade

*IF GPS WAS USED, GEOGRAPHIC COORDINATE DATUM (CHECK ONE): ☐ NAD83 ☐ Other (*please specify*):

WITHDRAWN

SECTION 2. OWNER INFORMATION

Well Owner

FULL NAME OF COMPANY, ORGANIZATION, OR INDIVIDUAL: AZ DEPT of ENV. Quality

MAILING ADDRESS: 1110 W. Washington

CITY / STATE / ZIP CODE: Phoenix AZ 85007

CONTACT PERSON NAME AND TITLE: Amanda Roberts

TELEPHONE NUMBER: 800 234 5677 FAX:

Landowner (if different from Well Owner)

FULL NAME OF COMPANY, GOVERNMENT AGENCY, OR INDIVIDUAL: City of South Tucson

MAILING ADDRESS: 1601 S. 6th Ave

CITY / STATE / ZIP CODE: South Tucson AZ 85713

CONTACT PERSON NAME AND TITLE: JOEL GASTELUM Planner

TELEPHONE NUMBER: 520-792-2424 FAX: 520-628-8619

SECTION 3. ABANDONMENT AUTHORIZATION

Drilling Firm

NAME: HOLE TECH TUCSON

DWR LICENSE NUMBER: 752

ROC LICENSE CATEGORY: AH

TELEPHONE NUMBER: 520-975-5060 FAX:

Consultant (if applicable)

CONSULTING FIRM: ZELEN ENVIRONMENTAL

CONTACT PERSON NAME: MIKE KAZZ P.E.

TELEPHONE NUMBER: 520-884-1846 FAX:

E-MAIL ADDRESS:

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?		X	EXPLAIN (ATTACH ADDITIONAL PAGE IF NECESSARY)
2. Is there another well name or identification number associated with this well? (e.g., Lot 3 Well, MW-1,etc.)		X	PLEASE STATE
3. Was the well casing video logged?		X	
4. Why is the well being abandoned?	PROJECT Finished		

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WATER MGMT

Notice of Intent to Abandon a Well

Provide a well construction diagram showing all existing well construction features listed in Section 5 and the proposed abandonment specifications listed in Section 6.

WELL REGISTRATION NUMBER: 55 - 580459

SECTION 5. 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	70	8

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	30	4.5		X			X						
30	70	4.5		X							X		.020

Condition of casing: ☐ Good ☒ Fair ☐ Poor

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	30			X								
30	70									X		10-20

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

DATE ABANDONMENT IS TO BEGIN:

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

Casing Treatment

DEPTH FROM SURFACE FROM (feet)	DEPTH FROM SURFACE TO (feet)	TREATMENT TYPE (T): SONAR JET	BRUSH OR SCRAPE	MILLS KNIFE	REMOVAL (explain in Remarks)	IF OTHER TYPE, DESCRIBE OR IF CASING IS TO BE PERFORATED, DESCRIBE SPACING AND SIZE OF PERFORATIONS TO BE ADDED
0	20				X	
20	30					
30	70		X			

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 BENTONITE: GROUT	CHIPS	PELLETS	SAND	MIXING RATIO by (check one) ☐ Weight ☐ Volume	ESTIMATED VOLUME OF MATERIAL (cubic feet)
3	20	X										
20	70	X										
		X										11 TOTAL

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

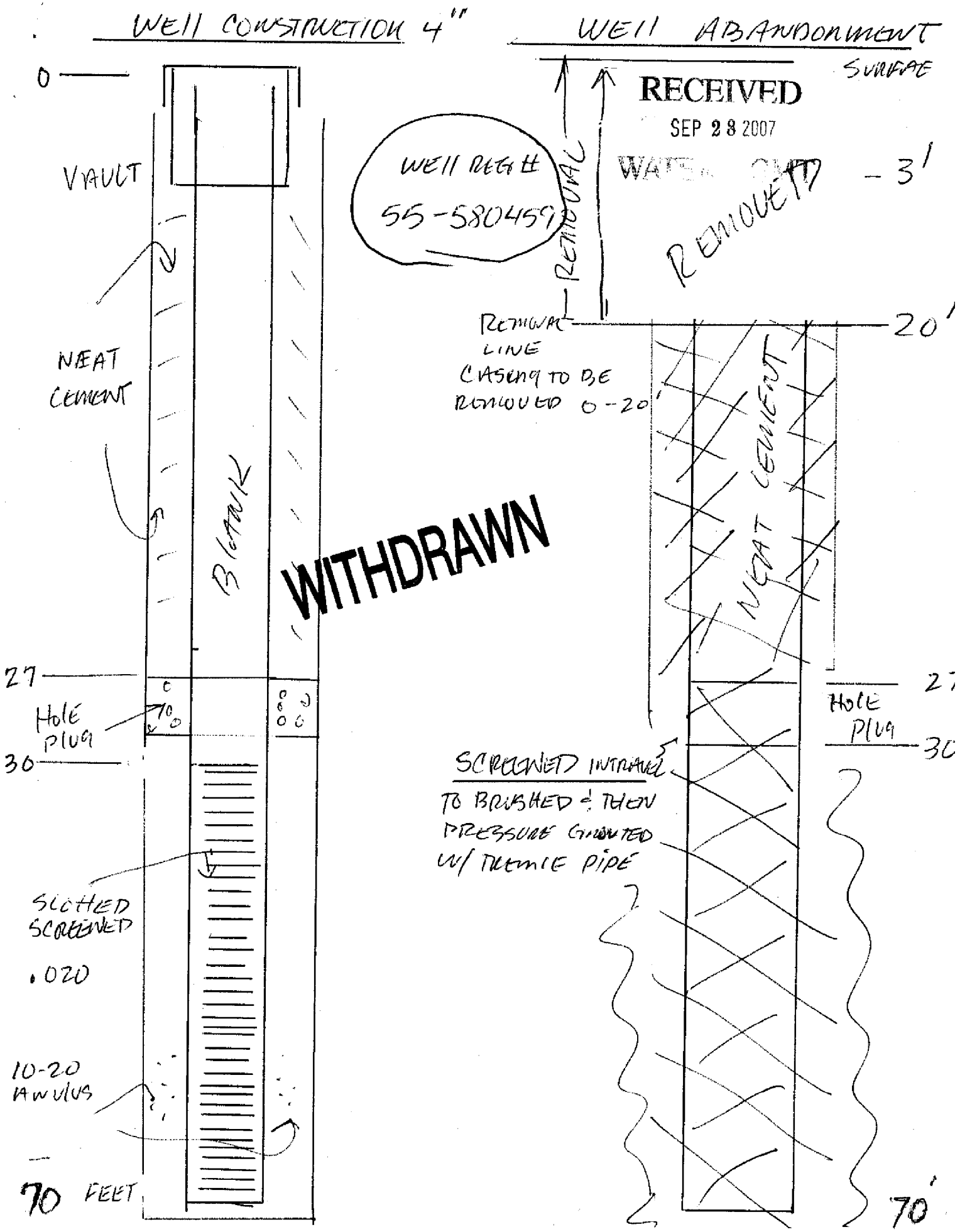
CHECK ONE

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

REMARKS: OVER DRILL

I state that this notice 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 belief.

TYPE OR PRINT NAME AND TITLE	SIGNATURE OF WELL OWNER	DATE
John Hydrologist	John Robertson	09/28/07
TYPE OR PRINT NAME AND TITLE	SIGNATURE OF LANDOWNER, IF APPLICABLE (SEE INSTRUCTIONS)	DATE
Joel Gastelum Planner		9/28/07


WELL CONSTRUCTION 4"
WELL ABANDONMENT
0
VAULT
WELL REG #
55-580459
SURFACE
RECEIVED
SEP 28 2007
REMOVAL
REMOVED
-3'
REMOVAL LINE
CASING TO BE REMOVED 0-20'
20'
NEAT CEMENT
BLANK
WITHDRAWN
27
Hole Plug
30
SCREENED INTERVAL
TO BRUSHED & THEN PRESSURE GROUTED W/ TREMIE PIPE
SLOTTED SCREENED
.020
10-20 ANNULUS
70 FEET
70'

2008 Pima County Assessor Property Inquiry

Search Parcel2007 Parcel2006 History Commercial Tax Summary Genealogy

Parcel 11902123C

Book-Map-Parcel: 119-02-123C
TaxPayer Information
CITY OF SOUTH TUCSON

00000 0000

Description

MISSION VIEW BLK 18 & ABAND ALLEY & S100' LOT A & LOTS 4 THRU 9 15 16 BLK 19 & ABAND ALLEY & BLK 24 & 25 & ABAND 39TH ST & 7TH AVE

TaxArea: 0120 **TaxYear:** 2008
Recording Information
Docket 9495 Page 1680 Date Mar-10-1993

Miscellaneous
Section 25 Twn14.0 S Rng 13.0 E
Map&Plat 3 / 21 LandMeasure 453155.00 F
MarketArea: (100)
Rule B District: 13
Tract Block019 Lot GroupCode 000
CensusTract 2300 UseCode 9728 File-Id 1
Date of Last Change Feb-13-2007

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SEP 28 2007
WATER MGMT

Multiple Addresses 2920 S 6TH AV (STUC)

MUNICIPAL COMM PROP IPR

Secondary Valuation Data	Legislative Class	Full Cash	Percentage	Assessed
Land	VACANT/AG (4 0)	$1,146,482	16.0	$183,437
Improvements	VACANT/AG (0 0)	$0	0.0	$0
2007 Personal Property				
Gross Value Totals		$1,146,482		$183,437
2007 LMTD/SCND Exemptions				
Net Value Totals		$1,146,482		$183,437

PriorLimitedValue: $1,089,762 CurrentLimitedValue: $1,146,482

Areas Condo Market 100 SFR District 16
SFR Neighborhood 20230001
MFR Neighborhood
ST_FAIRGROUNDS
DOR Market 7

WITHDRAWN

Recordings 10989^ 507 ()

Map Selection(s) 03021018.TIF 03021019.TIF 03021024.TIF 03021025.TIF 03021028.TIF

ParcelNote: AUDIT NOTES 2006: LISTING IMPS PREVIOUSLY NOT LISTED->RULE B
lmolina Aug-31-2005

ParcelNote: COMBO BACK FROM SECTIONS 2005 COMBO: NO CHANGE IN LOCATION OF IMPS
esantacr Jul-18-2005

ParcelNote: COMBO 2005 COMBO OF 119-02-1170, 118B, 123B, 164A, 165A, 1950 & 2020 PER
gault Feb-28-2005 REQUEST FROM CITY AREA CALC BY POLYLINEING PLAT 3/21

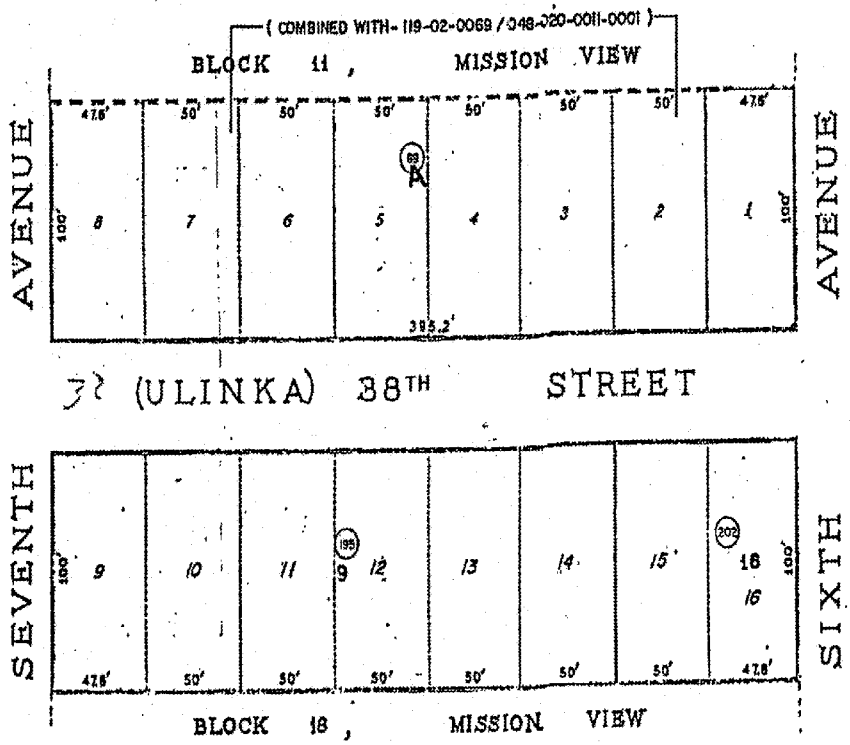
2008 Valuation in Progress.

ASSESSOR'S RECORD MAP

BLOCK A, MISSION VIEW ADDITION

119-02
29/29

REC MAP GROUP



MAPPING SECTION
NOT TO EXACT
TO OBTAIN EXACT SCALE,
MEASUREMENTS BY

SCALE-1"=

SEE BOO PAGE 68

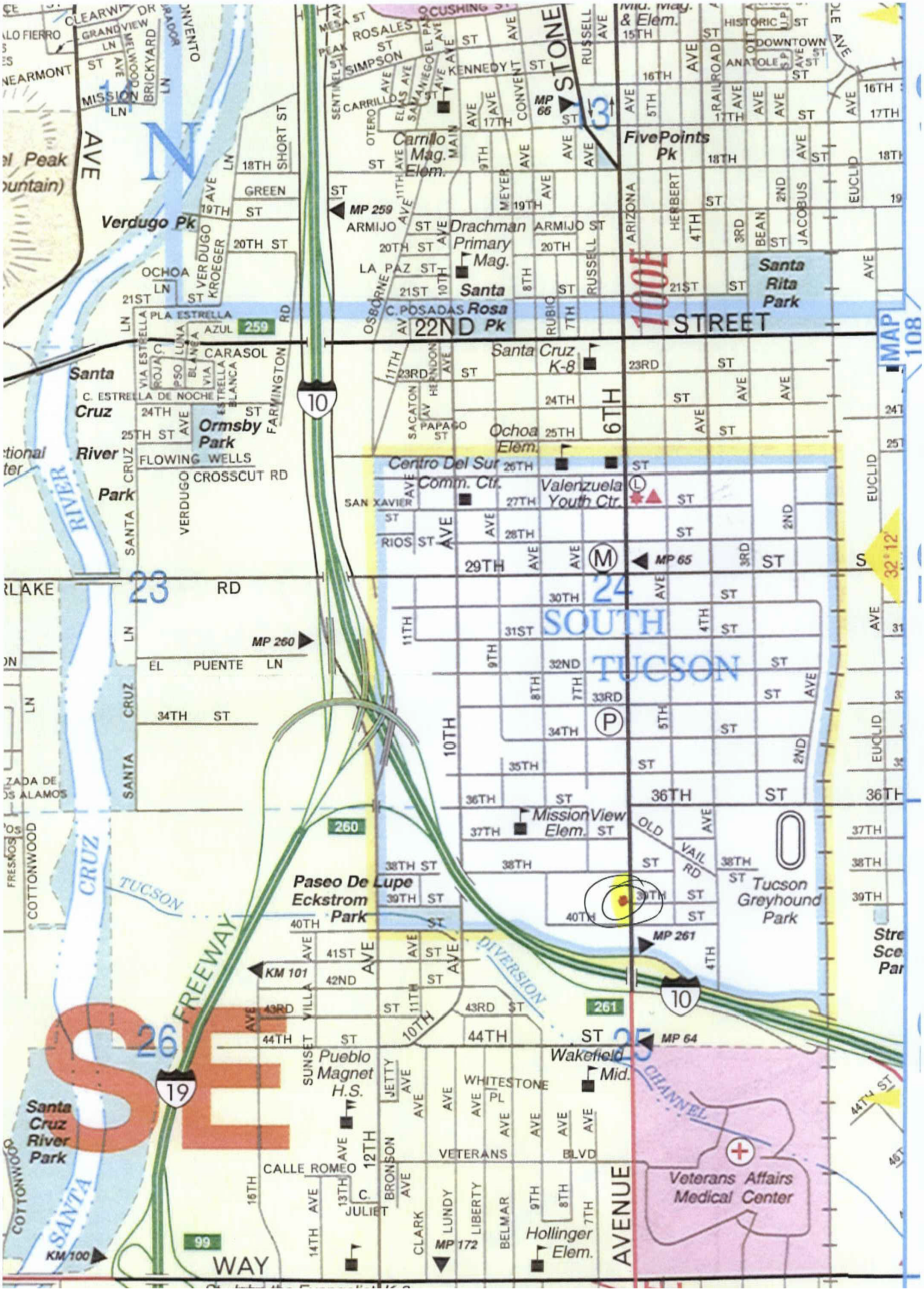
RECEIVED
MAR 3 1 [illegible]
GROUN[illegible]GT

EXHIBIT A

LEGAL DESCRIPTION OF TOOT & MOO SITE (A PORTION OF THE PARCEL ALSO KNOWN AS THE "HALE PROPERTY"):

LOT 16 IN BLOCK "A" OF MISSION VIEW ADDITION, A SUBDIVISION OF PIMA COUNTY, ARIZONA, ACCORDING TO THE MAP OR PLAT IN THE OFFICE OF THE PIMA COUNTY RECORDER IN BOOK 4 OF MAPS AND PLATS AT PAGE 68.

SEE ALSO, ASSESSOR'S RECORD MAP, BLOCK A, MISSION VIEW ADDITION ATTACHED AS PAGE 2, HEREOF.



Verdugo Pk
Santa Cruz River Park
Ormsby Park
Carrillo Mag. Elem.
Drachman Primary Mag.
Santa Rosa Pk
Santa Cruz K-8
Ochoa Elem.
Centro Del Sur Comm. Ctr.
Valenzuela Youth Ctr.
Mission View Elem.
Paseo De Lupe Eckstrom Park
Pueblo Magnet H.S.
Wakefield Mid.
Hollinger Elem.
Veterans Affairs Medical Center
Tucson Greyhound Park
Santa Rita Park
Five Points Pk
22ND STREET
6TH AVENUE
SOUTH TUCSON
FREEWAY
SANTA CRUZ RIVER
TUCSON DIVERSION CHANNEL
MP 259
MP 260
MP 261
MP 64
MP 65
MP 66
MP 172
KM 101
KM 100
MAP 108

ARIZONA DEPARTMENT OF WATER RESOURCES
GROUNDWATER MANAGEMENT SUPPORT SECTION
MAIL TO: P. O. BOX 458, PHOENIX, ARIZONA 85001-0458
FOR MORE INFORMATION CALL: MONICA ORTIZ 602-417-2470
NOTICE OF INTENTION TO DRILL, DEEPEN, REPLACE OR MODIFY A WELL

RECEIVED MAR 31 2000 AMA MGT

PLEASE COMPLETE ALL ITEMS IN THE BOX BELOW DOWN TO COUNTY OR LOCAL AUTHORITY ENDORSEMENT. IF WATER FROM THE PROPOSED WELL (LISTED BELOW) WILL BE USED FOR DOMESTIC PURPOSES ON A PARCEL OF LAND 20 OR FEWER ACRES, THE APPLICABLE COUNTY OR LOCAL HEALTH AUTHORITY MUST ENDORSE ALL ITEMS IN THE BOX BEFORE SUBMISSION TO THE DEPARTMENT OF WATER RESOURCES. ITEMS C, D, E, AND F MAY BE AVAILABLE FROM YOUR COUNTY ASSESSOR'S OFFICE.

A. City of South Tucson (LANDOWNER'S NAME) P.O. Box 7307 (CURRENT MAILING ADDRESS) South Tucson (CITY) AZ (STATE) 85725 (ZIP)

B. TELEPHONE NO. 520 - 792 - 2424 **COUNTY ASSESSOR'S PARCEL ID INFORMATION:**

C. WELL LOCATED IN Pima COUNTY D. _____ (BOOK MAP PARCEL) E. _____ (# OF ACRES) **OFFICIAL SEAL OR STAMP**

WELL/LAND LOCATION (MUST BE COMPLETED AS REQUESTED):

F. SW ¼ (10AC) NW ¼ (40AC) NE ¼ (160AC) OF SECTION 25 TOWNSHIP 14 N(S) RANGE 13 (E)W

COUNTY OR LOCAL AUTHORITY ENDORSEMENT

CHECK ONE:
G. RECOMMEND APPROVAL _____; INSUFFICIENT INFORMATION TO MAKE A DETERMINATION _____; VARIANCE REQUIRED _____ (EXPLANATION ATTACHED)

H. DATE _____ AUTHORIZED SIGNATURE _____ TITLE _____

1. OWNER OF WELL:
Arizona Department of Environmental Quality
NAME
3033 North Central Avenue
CURRENT MAILING ADDRESS
Phoenix AZ 85012
CITY STATE ZIP

TELEPHONE NUMBER 602 - 207 - 4847

2. ACTION REQUESTED:
DRILL NEW WELL X DEEPEN _____
MODIFY _____ REPLACE _____

WELL REGISTRATION NO 55- _____

FOR A REPLACEMENT WELL PROVIDE:
MAX. CAPACITY OF THE ORIGINAL WELL
Not Applicable GALLONS PER MINUTE;

DISTANCE FROM THE ORIGINAL WELL:
Not Applicable FEET

3. CONSTRUCTION WILL START ABOUT:
MONTH April YEAR 2000

4. TYPE OF CASING FOR PROPOSED WELL:
SURFACE CASING: Not Applicable
DIAMETER: _____ " DEPTH: _____ '

DOWNHOLE CASING: PVC
DIAMETER: 4 " DEPTH: 70 '

5. DESIGN PUMP CAPACITY:
Not Applicable GALLONS PER MINUTE

6. LESSEE OF LAND OF WELLSITE:
City of Tucson
NAME
P.O. Box 7307
CURRENT MAILING ADDRESS
S. Tucson AZ
CITY STATE ZIP

TELEPHONE: 520 - 792 - 2424

7. PRINCIPAL USE OF WATER: (BE SPECIFIC)
Vapor Well

8. OTHER USES OF WATER: (BE SPECIFIC).
Vapor well

FOR DEPARTMENT USE ONLY
REGISTRATION NO. 55- 580459
DATE FILED 3-31-00
FILE NO. D(14-13)25 ABC
AMA/INA Tucson
W/S 09 S/B PG
PROCESSED BY KB
DATE MAILED 4-20-00

9. PLACE OF USE (LEGAL DESCRIPTION OF LAND):
SW ¼ (10AC) NW ¼ (40AC) NE ¼ (160AC) SECTION 25
TWNSHP 14 N(S) RNG 13 (E)W

10. TYPE OF WELL (CHECK ONE):
EXEMPT X NON-EXEMPT _____

11. CHECK ONE:
RESIDENTIAL _____ STOCKWATER _____
OTHER Vapor Well

12. IS THE PROPOSED WELLSITE WITHIN 100 FEET OF A SEPTIC TANK SYSTEM, SEWER DISPOSAL AREA, LANDFILL, HAZARDOUS MATERIALS OR PETROLEUM STORAGE AREAS AND TANKS?
YES _____ NO X

13. DRILLING FIRM:
Geomechanics Southwest, Inc.
NAME
7400 S. Nogales Highway #4
MAILING ADDRESS
Tucson AZ 85706
CITY STATE ZIP
520 - 889 - 7787
TELEPHONE NO.
498
DWR LICENSE NUMBER
079441 Class A-04
ROC LICENSE CATEGORY

I STATE THAT THIS NOTICE IS FILED IN COMPLIANCE WITH A.R.S. § 45-596, IS COMPLETE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND THAT I UNDERSTAND THE LIMITATIONS AND CONDITIONS SET FORTH ON THE REVERSE SIDE OF THIS FORM.

Michael Lutin ADEQ SW Manager — Michael Lutin — 3/28/00
14. TYPE OR PRINT NAME AND TITLE — 15. SIGNATURE OF LANDOWNER/LESSEE OF WELLSITE — 16. DATE

VARIANCE GRANTED

SPECIAL REQUIREMENTS

DWR 55-40 (REV 9/99)

APPLICATION GUIDELINES

In accordance with Arizona Revised Statutes ("A.R.S.") §§ 41-1008 and 1079, the Department of Water Resources (Department) provides the following information regarding the application review process for authority to drill.

NECESSARY STEPS & INSTRUCTIONS TO OBTAIN DRILLING AUTHORITY

1. Pursuant to A.R.S. § 45-596, a person may not drill, cause to be drilled, deepen or modify any well for which a permit is not required without first filing a Notice of Intent to Drill with the Department. Only a well drilling contractor licensed in the State of Arizona or a single well licensee (a person licensed to drill or modify one exempt well on his or her own property) is authorized to drill, deepen or modify a well. Drilling may not begin until the well drilling contractor or licensee has possession of a drilling card at the well site, issued by the Director in the name of the well drilling contractor or licensee, and which authorizes the drilling of the specific well in a specific location. To assist you in understanding the requirements for this application, copies of A.R.S. § 45-596 and Arizona Administrative Code ("A.A.C.") R12-15-810 are available at the Department bookstore (602-417-2450 x7127).
2. If replacing, deepening, or modifying an existing well, provide the registration number of the existing well in item 2. A replacement well is one located no more than 660 feet from the original well and that is not expected to annually withdraw more groundwater than historically withdrawn from the original well.
3. Information to complete items 3, 4, 5 and 13 may be available from your driller.
4. Information to complete items 9 and 12 may be available from your County Assessor's Office.
5. For item 10, in an Active Management Area, A.R.S § 45-454 only allows non-irrigation uses for "exempt" wells. If the proposed use includes the growing of 2 or more acres of plants for sale or human/animal consumption (irrigation use), the well does not qualify as an exempt well.
6. An exempt well, referred to in Item 10, means a well with a pump with a maximum capacity of not more than thirty-five gallons per minute and used for non-irrigation purposes.
7. For item 11, in an Active Management Area, A.R.S §45-454 allow up to 56 acre feet per year of pumping from a domestic (residential) or stock watering exempt well, and up to 10 acre ft per year from an exempt well used for other (usually commercial non-irrigation) purposes.
8. If any water from a proposed well on a parcel of twenty or fewer acres will be used for domestic purposes, as defined in § 45-454, the applicant must submit a well site plan of the property. The plan must be on an 8½" x 11" piece of plain paper with representation of the locations of all structures and proximity of adjacent lot lines, to scale. It must include the county assessor's parcel identification number. The plan must show the proposed well location and the location of any septic tank or sewer system that is either located on the property or within one hundred feet of the proposed well site, as well as indicating the measured shortest distance between the proposed well and existing septic tank system. **The plan must demonstrate that the well will not be drilled within one hundred feet of any septic or sewer system.**
9. The site plan must be approved by the county health authority, or by a local health authority in areas where the county health authority has delegated authority to approve septic or sewer systems. Endorsement by the county/local authority is based solely on the best available judgement that the proposed well, as shown on the site plan submitted, is 100 feet or more from all known and visually identifiable sewage treatment systems. It is not a representation that a well placed at this site will be guaranteed as to quantity or quality. In areas where there is no local or county authority that controls installation of septic tanks or sewer systems, or if the health authority is unable to determine whether the proposed well location complies with state and local requirements, the applicant must apply for approval directly to the Department of Water Resources.
10. If an individual other than the land owner or lessee signs this notice, an original letter of authorization from the land owner/lessee, stating that the individual has permission to sign this specific notice on his or her behalf, must accompany the notice.
11. Please mail **two original Notices** with **original signatures** and **two site plans and,** in accordance with A.R.S. § 45-113, a **check or money order (no cash) in the amount of $10.00** to P. O. Box 458, Phoenix Arizona, 85001-0458, or hand deliver to 500 North Third Street, Phoenix, Arizona.
12. Arizona Revised Statute § 45-596(D) provides that the Director of the Department is to determine whether or not all information required on this form has been submitted. If not, the person filing the Notice will be notified, and the drilling or modification of the well may **not** proceed.
13. This form is not applicable for non-exempt wells (those yielding more than thirty-five gallons per minute) within an Active Management Area. Contact Groundwater Management for further information regarding the appropriate notice to file with the Department.

TIME FRAME FOR REVIEW OF YOUR APPLICATION

Within 15 days after receipt of your Notice of Intention the Arizona Department of Water Resources ("Department") will determine whether your application should be granted or denied, unless this time is extended for lack of a complete application. If your application is incomplete, the Department will notify you in writing and will specify what information is necessary to make the application complete. Until the missing information is received, the time frame for review of your application will be suspended. Your application will not be complete 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 withdrawn and close the file.

At the end of its review, the Department will send you a 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 contractor. If denied, the Department's notice will state justification for the denial and an explanation of your right to appeal.

CONSTRUCTION AND FOLLOW UP REQUIREMENTS

1. Construction and abandonment standards for wells, must be in accordance with Department Regulations. A.R.S. § 45-594 and Arizona Administrative Code R12-15-811 require the well to be constructed with a twenty foot steel surface seal casing, including a one foot steel stickup and one and one-half inches of grout seal around the casing from the surface to a depth of twenty feet, unless a variance is granted **(see A.R.S. § 45-596 (G) for procedure to follow in requesting a variance).**
2. Pursuant to § 45-596(E), the drilling, deepening or modification of the well must be completed within one year of the date of the Notice of Intent. If the well is not completed within one year, a new Notice of Intent must be filed before proceeding with further construction.
3. If a well which was originally drilled as an exploration well, a monitor well, a piezometer well or for any use other than domestic use is later proposed to be converted to use for domestic purposes as defined in § 45-454, the well owner must file a Notice of Intention to Drill and comply with the requirements of § 45-596 before the well is converted and any water from that well is used for domestic purposes.
4. Within thirty days after installation of pumping equipment, the registered well owner must file a Completion Report with the Department. The person to whom a well is registered also must notify the Department of a change in ownership or a change in data relating to this well.

ARIZONA DEPARTMENT OF WATER RESOURCES

GROUNDWATER MANAGEMENT SUPPORT SECTION

500 North Third Street
Phoenix, Arizona 85004

VARIANCE GRANTED

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

WELL REGISTRATION NO: 55-580459

AUTHORIZED DRILLER: GEOMECHANICS SOUTHWEST, INC. LICENSE NO: 498

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

WELL OWNER: ARIZONA DEPARTMENT OF ENVIROMENTAL QUALITY 3033 N CENTRAL AVE PHOENIX, AZ 85012

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

SW ¼ of the NW ¼ of the NE ¼ Section 25 Township 14 SOUTH Range 13 EAST

No. of wells in this project: 1

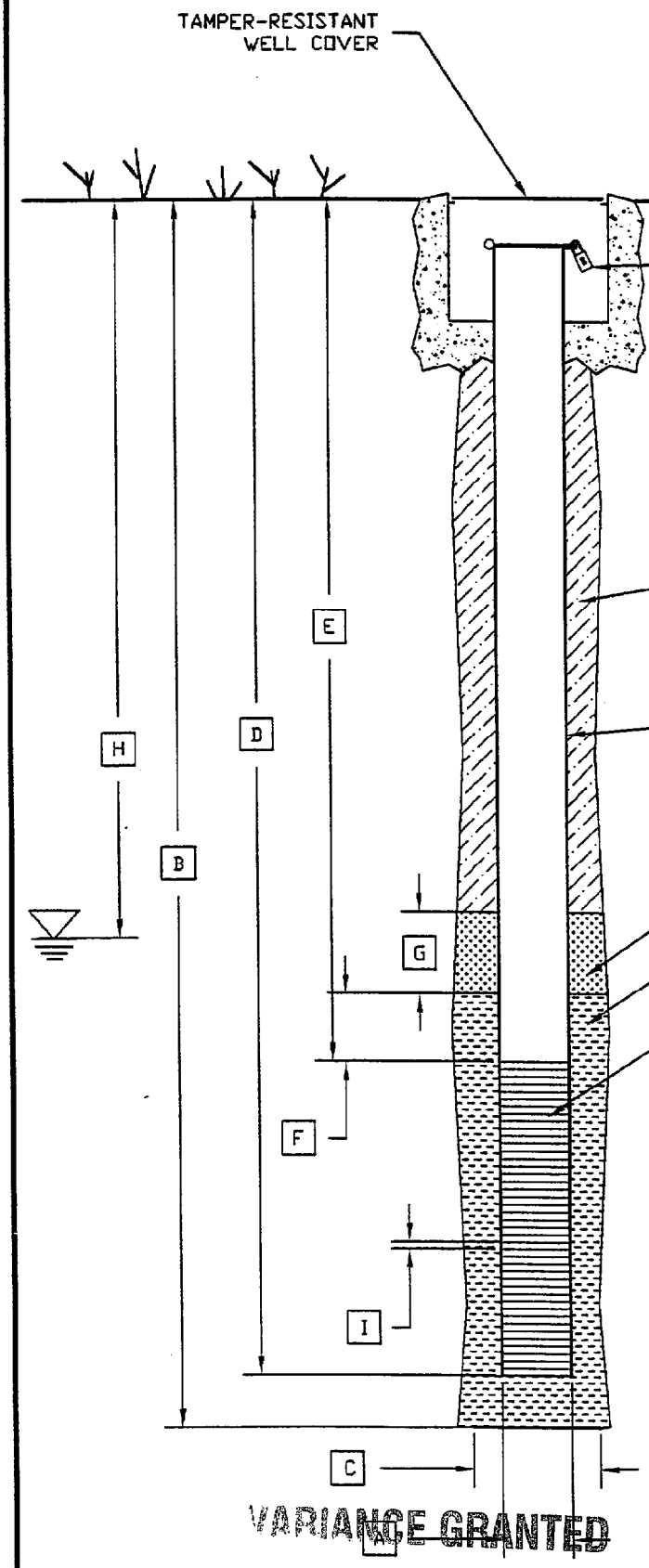
THIS AUTHORIZATION EXPIRES AT MIDNIGHT ON THE 30TH DAY OF MARCH, 2001

AM

GROUNDWATER MANAGEMENT SUPPORT

THE DRILLER MUST 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

DIMENSIONS

A: BOREHOLE DIAMETER $10\frac{5}{8}$ INCHES

B: BOREHOLE DEPTH 70 FEET

C: CASING DIAMETER 4 INCHES SCHEDULE 40 PVC

D: DEPTH TO BOTTOM OF SCREEN 70 FEET

E: DEPTH TO TOP OF SCREEN 30 FEET

F: TOP OF SCREEN TO BOTTOM OF BENTONITE SEAL 3 FEET

G: THICKNESS OF BENTONITE SEAL 4 FEET

H: DEPTH TO WATER TABLE 77 FEET

I: SLOT APERTURE 0.10 INCHES

SPECIAL REQUIREMENTS

* NOT TO SCALE

MONITOR WELL DIAGRAM	DATE:
	DESIGNED:
	CHECKED:
	APPROVED:
	DRAWN: JDD
	PROJ.:

HSI GEOTRANS
A Tetra Tech Company

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GEOTRANS

- *Environmental Consultants*
- *Groundwater Specialists*

4665 South Ash Avenue
Suite G-1
Tempe, Arizona 85282
Voice: 480-839-2800
Fax: 480-839-2828

Memorandum

To: Kay McNeely

From: Christiaan Culbertson Acc

Subject: NOI for ADEQ State Lead Site in Tucson, AZ

Date: March 31, 2000

Kay,

I have provided three Notice of Intents to Drill, Deepen, or Modify a Well (NOI) for a site in Township 14 South, Range 13 East, Section 25. I have also included well construction diagrams, a request for varience, and a letter authorizing the ADEQ to sign the NOIs. We have discussed the permitting and installation of these wells previously. The wells will be installed in the vadose zone and therefore, the inapplicable sections of the NOI were marked not applicable or left blank.

Thank you for your attention to this matter. If you have any questions please call me at (480) 839-2800.

ARIZONA DEPARTMENT OF WATER RESOURCES

HYDROLOGY DIVISION

MEMORANDUM

DATE: **April 18, 2000**

TO: **GWMSS, NOI Personnel**

FROM: **James L. Johnson**

SUBJECT: **NOI with Variance Request**
Completeness Review Time Frame Suspended

The following files(s) 55-580457 through 55-580459 were received from GWMSS on April 6, 2000. From the date received, the completeness (administrative) review time frame is suspended. On that date the substantiative (technical) time frame begins. Once returned to GWMSS the completeness review time frame will begin again.

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ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY

UNDERGROUND STORAGE TANK CORRECTIVE ACTION AGREEMENT

This Corrective Action Agreement ("Agreement") is made this day of , 1999, by and between the Arizona Department of Environmental Quality ("ADEQ") and City of South Tucson ("Owner").

RECITALS:

The following is a recital of the facts underlying this agreement:

"Owner" is the owner, as defined by Arizona Revised Statutes ("A.R.S.") § 49-1001.01.A., of an Underground Storage Tank ("UST"), as defined by A.R.S. § 49-1001.17., located at See Exhibit A Arizona.("Property"). A release, as defined by A.R.S. § 49-1001.14., of petroleum from the UST occurred on or before _____. "Owner" and ADEQ desire that corrective actions required by A.R.S. § 49-1005. be carried out at the Property and that ADEQ take such action pursuant to A.R.S. § 49-1017.

THEREFORE, the parties ("Parties") to this Agreement, in consideration of the promises and agreements contained herein, and for other good and valuable consideration, the receipt and legal sufficiency of which is hereby acknowledged, agree as follows:

1. **STATE-LEAD CORRECTIVE ACTION.** That this matter meets the requirements for ADEQ to take corrective action, at the property, pursuant to A.R.S. § 49-1017.A.1.(a)-(c), and ADEQ shall take such corrective action.

2. **ASSIGNMENT OF SAF REIMBURSEMENT.** "Owner" assigns any right it may have to reimbursement of corrective action costs, pursuant to A.R.S. § 49-1052., from the State Assurance Fund ("SAF"), to ADEQ.

3. **REIMBURSEMENT OF DIRECT COSTS.** "Owner" shall reimburse ADEQ for all direct costs of the corrective action, pursuant to A.R.S. § 49-1017.C., as follows:

   a. "Owner" shall be responsible for all direct costs, up to the amount of its deductible, pursuant to A.R.S. § 49-1054.A., and;

   b. "Owner" shall be responsible for all direct costs that exceed the amount of SAF reimbursement available, pursuant to A.R.S. §§ 49-1052. and 1054.

   c. Payment of direct costs shall be made in Accordance with Departmental approved "Payment Schedule".

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4. **SCOPE OF AGREEMENT.** This Agreement does not encompass issues regarding violations, releases, contamination, sources, operations, facilities or processes not expressly covered by the terms of this Agreement, and is without prejudice to the rights of the State of Arizona or "Owner", arising under any federal or Arizona environmental statutes and rules with regard to such issues.

5. **PROPERTY ACCESS.** "Owner" shall provide to ADEQ, all access to the Property necessary to complete the corrective action and incorporated in, this Corrective Action Agreement as Addendum A. This right of access shall be in addition to, and not in limitation of or substitution for ADEQ's rights under applicable law.

6. **OBLIGATIONS OF LAW.** Nothing in this Agreement shall in any way alter, modify or revoke federal, state, or local law, or relieve "Owner" in any manner of its obligation to comply with such laws. Compliance with the terms of this Agreement shall be no defense to any action to enforce any such laws.

7. **CURRENT INFORMATION.** This Agreement is based solely upon currently available information. If additional information is discovered, which indicates that the actions taken under this Agreement are or will be inadequate to protect the human health, safety, or the environment, or to conform with applicable federal or state laws, the ADEQ shall have the right to require further action, beyond the requirements of this Agreement.

8. **MODIFICATIONS.** Any modifications of this Agreement shall be in writing and approved by "Owner" and the Director of ADEQ.

9. **CORRESPONDENCE TO ADEQ.** All correspondence to ADEQ arising as a result of this Agreement shall be mailed to the following address:

Phil McNeeley, Manager
Underground Storage Tank Section
Waste Programs Division
Arizona Department of Environmental Quality
3033 North Central Avenue, T-4024
Phoenix, Arizona 85012

10. **CORRESPONDENCE TO "OWNER".** All correspondence to "Owner" arising as a result of this Agreement shall be mailed to the following address:

City of South Tucson
PO Box 7307
South Tucson, Arizona

11. **AUTHORIZATION.** The undersigned representative of ADEQ certifies that she is fully authorized to execute this Agreement on behalf of ADEQ and to legally bind ADEQ to this Agreement. The undersigned representative of "Owner" certifies that he is fully authorized to execute this Agreement on behalf of "Owner" and to legally bind "Owner" to this Agreement.

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12. **EXECUTION DATE.** The execution date of this Agreement shall be the date this Agreement is signed by "Owner" and ADEQ. If such signatures occur on different dates the latter shall be the execution date of this Agreement.

13. **ENTIRE AGREEMENT.** This Agreement constitutes the entire understanding between the parties with respect to the subject matter hereof, superseding all negotiations, prior discussions and agreements.

14. **CAPTIONS.** The captions of the paragraphs of this Agreement are for the convenience of reference only and shall not be considered or referred to when resolving questions of interpretation.

15. **SEVERABILITY.** If any term or provision of this Agreement or the application thereof to any person or circumstance shall to any extent be found to be invalid, void or unenforceable, then, to the extent the basic intentions of the parties to this Agreement remain unchanged, the remaining provisions and any application thereof shall, nevertheless, continue in full force and effect without being impaired or invalidated in any way.

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EXECUTED this 2nd day of September, 1999.

"Owner"

"Owner" City of South Tucson
by Mayor Shirley Villegas

EXECUTED this 17th day of September 1999.

Jean Calhoun
Director
Waste Programs Division
Arizona Department of Environmental Quality

APPROVED AS TO FORM:

Brad Brown
City Attorney

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EXHIBIT A

LEGAL DESCRIPTION OF TOOT & MOO SITE (A PORTION OF THE PARCEL ALSO KNOWN AS THE "HALE PROPERTY"):

LOT 16 IN BLOCK "A" OF MISSION VIEW ADDITION, A SUBDIVISION OF PIMA COUNTY, ARIZONA, ACCORDING TO THE MAP OR PLAT IN THE OFFICE OF THE PIMA COUNTY RECORDER IN BOOK 4 OF MAPS AND PLATS AT PAGE 68.

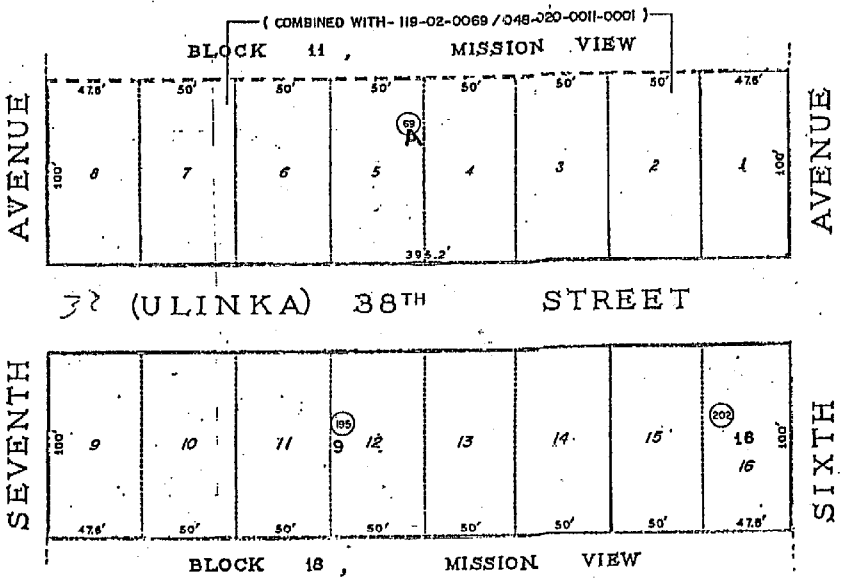
SEE ALSO, ASSESSOR'S RECORD MAP, BLOCK A, MISSION VIEW ADDITION ATTACHED AS PAGE 2, HEREOF.

ASSESSOR'S RECORD MAP

BLOCK A, MISSION VIEW ADDITION

119-02
29/29

RECORDED MAP
GROUND



MAPPING SECTION COPY
NOT TO EXACT SCALE
TO OBTAIN EXACT SCALE, MULTIPLY MEASUREMENTS BY .99102

SCALE-1"=

SEE BOO AGE 68,M & P.

Geomechanics Southwest, Inc.
"GeoEnvironmental Exploration and Well Construction"

ADWR Lic. No. 498
AROC Lic. No. 079441, Class. A-04

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March 27, 2000

Mr. Greg Wallace
Hydrology Division
Arizona Department of Water Resources
500 North 3rd Street
Phoenix, Arizona, 85004

RE: Request for Variance – Monitor Well(s)
ADEQ – Pima County, AZ, T14S, R13E, S25

Dear Mr. Wallace:

Geomechanics Southwest, Inc. request variances for the construction of three (3) vadose well(s) at the above referenced site. All other construction practices will be in accordance with ADWR standards. The variances are as follows:

- Thermoplastic (PVC) inner casing (riser) with a locking watertight cap will be used in lieu of the required 20-foot steel surface casing. The riser will comply with ASTM Standard Guide D5092, Section 6.5. (R12-15-811.B.1) and

- The well will be installed in a vandal-proof, flush-grade, traffic-rated vault in lieu of above grade completion. (R12-15-811.B.1)(R12-15-811.I).

The Consultant that will be conducting the work is:

HSIGeotrans, Inc.
4665 S. Ash Ave., Suite G-1
Tempe, AZ 85282
Mr. Christiaan Culbertson
480-839-2800

If you have any questions, please call Christiaan Culbertson or myself. Thank you.

Sincerely,

Geomechanics Southwest, Inc.

Greg G. Jones
Operations Manager / Phoenix
HSI0327
GGJ/sm

ARIZONA DEPARTMENT OF WATER RESOURCES

Hydrology Division
500 North Third Street, Phoenix, Arizona 85004
Telephone 602-417-2448
Fax 602-417-2425

JANE DEE HULL
Governor

RITA P. PEARSON
Director

April 18, 2000

Geomechanics Southwest
1212 South 9th Street
Phoenix, Arizona 85034

Attn: Greg G. Jones

Re: Variance for Construction of Three Vadose Wells
Registration Numbers 55-580457 through 55-580459

Dear Mr. Jones:

The Arizona Department of Water Resources received your request dated March 27, 2000 for a variance for construction of three vadose wells to be located in Pima County.

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 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 A.A.C. R12-15-816.

If you have any questions, please contact James L. Johnson of my staff at 602-417-2400 ext. # 7268.

Sincerely,

For Frank Corkhill
Technical Support Section Supervisor

FC/JLJ/ef
503011

ARIZONA DEPARTMENT OF WATER RESOURCES
500 North 3rd Street, Phoenix, Arizona 85004
Telephone (602) 417-2470
Fax (602) 417-2422

April 20, 2000

JANE DEE HULL
Govenor

RITA P. PEARSON
Director

ARIZONA DEPARTMENT OF ENVIROMENTAL QUALITY
3033 N CENTRAL AVE
PHOENIX, AZ 85012

Registration No. 55-580459
File No. D(14-13) 25 ABC

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,

Toni Bergeman

Toni Bergeman
Water Resource Technician
Groundwater Management Support Section

Enclosures

ADEQ

VARIANCE CHECKLIST - HYDROLOGY

DATE RECEIVED 3-27-00 POTENTIAL REG. Nº 55-_____
DATE TO HYDRO 4-6-00
DATE TO GMSS 4-19-00 55- 580457 THRU 55- 580459

FRONT OF N.O.I COMPLETE/CORRECT: YES ✓ NO _____

VARIANCE (?) LETTER RECEIVED YES ✓ NO _____
WELL DIAGRAM (?) RECEIVED YES ✓ NO _____
SITE PLAN (?) RECEIVED YES _____ NO _____

TYPE AND NUMBER OF WELLS:

_____	MONITOR	_____	CATHODIC PROTECTION
_____	PIEZOMETER	_____	GROUNDING
_____	GEOTECHNICAL	_____	HEAT PUMP
_____	MINERAL EXPLORATION		
_____	WATER PRODUCTION	✓	OTHER vadose zone

DESCRIBE TYPE OF WELL

VARIANCE:

✓	REQUIRED	✓	GRANTED
_____	NOT REQUIRED	_____	NOT GRANTED
		_____	LETTER ISSUED

ATTENTION!!! NOTICE OF INTENT TEAM:

_____ HARD COPY OF LETTER TO FOLLOW
_____ CALL FOR PICKUP

COMMENTS: _____

KB