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

RECEIVED MAY 18 2000 GROUNDWATER MGT

NOTICE OF INTENTION TO DRILL MONITOR/PIEZOMETER WELL

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

1. Well/land Location:

14 N/(S) 13 (E)/W 24
Township Range Section

NW ¼ SW ¼ NE ¼
10 Acre 40 Acre 160 Acre

2. Position location of the well on the land:

Latitude 32 o 12 ' 06 "

Longitude 110 o 58 ' 09 "

3. County: Pima

4. Owner of the well:

Michael Katcher
Name
347 Pauls Cresent
Mailing Address
Osler, Saskatchawan, Canada
City State Zip
SOK3AO
Telephone No. 306-239-4647

5. Lessee of the land of wellsite:

Michael Katcher
Name
347 Pauls Cresent
Mailing Address
Osler, Saskatchawan, Canada
City State Zip
SOK3AO
Telephone No. 306-239-4647

6. Owner of the Land of Wellsite:

Michael Katcher
Name
347 Pauls Crescent
Mailing Address
Osler, Saskatchawan, Canada
City State Zip
SOK3A0
Telephone No. 306-239-4647

7. Consulting firm:

EEC, Inc.
Name
Michael Murray
Contact Person
Telephone No. 520-321-4625

8. Purpose of well drilled pursuant to this notice:
Monitor X
Piezometer

9. If for deepening or modifying, list well registration number:
55-

FOR DEPARTMENT USE ONLY

File No. D(14-13)24ACB
Filed 5-18-00 By KB
Input 6-1-00 By
DUPLICATE
Mailed 6-8-00 By
Registration 55- 581294
AMA/INA Tucson
W/S 09 S/B 16

10. Will this proposed well be associated with a permit: Yes____ No X
If yes, Permit No.

VARIANCE GRANTED

11. Construction will start:
4 24 2000
Month Day Year

12. Period well will remain in use:
2 years Months/Years

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

SPECIAL REQUIREMENTS

(a) If yes, design pump capacity:

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

14. Drilling Firm:

Geomechanics Southwest
Name
7700 S. Nogales Hwy
Mailing Address
Tucson AZ 85706
City State Zip
520-889-7787
Telephone No.
498
DWR License Number
079441 A-4
ROC License Category

15. Proposed method of abandonment of well after project is completed: Cement grout by tremie, pursuant to R12-15-816.

16. Is this well to monitor existing contamination? X **Potential contamination:** ____ **Please explain:** Expanded assessment of perched groundwater contamination from leaking UST.

17. If construction plans have been coordinated with Arizona Department of Environmental Quality, who is the agency contact? Kevin Snyder

18. If construction plans have been coordinated with Arizona Department of Water Resources, who is the agency contact?

19. WELL CONSTRUCTION PLAN:

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

b) Borehole diameters: _____ inches from _____ feet to _____ feet.
_____ inches from _____ feet to _____ feet.

c) Casing materials (PVC, steel, hollow-stem auger, etc.)
material_____ diameter _____ inches from _____ feet to _____ feet.
material_____ diameter _____ inches from _____ feet to _____ feet.

d) Method of sealing at reductions _____

e) Annular seal materials (cement, grout, etc.,); method of placement (tremied, circulated):
material_____ method_____ from _____ feet to _____ feet.
material_____ method _____ from _____ feet to _____ feet.

f) Filter packs (state material):
material_____ from _____ feet to _____ feet.
material_____ from _____ feet to _____ feet.

g) Perforations or screen specifications:
Type_____ from _____ feet to _____ feet.
Type_____ from _____ feet to _____ feet.

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

i) Will surface or conductor casing extend above grade?: Yes_____ No_____

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

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

Michael Katcher _____ 4-5-2000

Typed or Printed Name and Title **Signature [ ] Land Owner [X] Lessee of Wellsite, Title** **Date**

Necessary Steps and Instructions to Obtain Drilling Authority (Monitor/Piezometer Wells)

1. Arizona Revised Statues ("A.R.S.") § 45-596 provides that prior to drilling a monitor or piezometer well, a Notice of Intention to Drill must be filed with the Department. To assist you in understanding the substantive requirements for this application, copies of A.R.S. § 45-596 and Arizona Administrative Code ("A.A.C.") R12-15-810 are available thru the department bookstore.
2. Information to complete items 1, 2, and 3 may be available from your County Tax Receipt or your County Assessors Office.
3. Information to complete item 9 is available from your copy of the original Notice of Intent to Drill or our Records Division at (602)417-2405.
4. Information to complete items 11, 14 and 15 may be available from your driller.
5. If an individual other than the land owner or lessee signs this notice, an original **notarized** 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 of Intention to Drill a Monitor/Piezometer Well.
6. Please complete two original notices with original signatures and include a $10.00 check or money order for the processing fee, in accordance with A.R.S. § 45-113. Submit them to: P.O. Box 458, Phoenix, Arizona 85001-0458.

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 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.

Construction and Follow-up Requirements

1. Construction and abandonment standards for all wells must be in accordance with Department Rules.
2. A.A.C. Rule R12-15-811(H)(2) requires a monitor well to be identified as such on the vault cover or at the top of the steel casing. Identification information must include the well registration number.
3. Pursuant to A.R.S. § 45-596(E), drilling, deepening or modification of the well must be completed within one year after the date of the Notice of Intent.
4. A Well Driller Report is required within thirty (30) days of completion of drilling. Within thirty (30) days after installation of pumping equipment in monitor wells, a Completion Report must be filed with the Department.
5. 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 total volume of 10 acre feet.
6. Special construction standards required pursuant to A.A.C. Rule R12-15-821:_____

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: 55-581294

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

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

WELL OWNER: MICHAEL KATCHER 347 PAULS CRESCENT OSLER, SA S0K3A0

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

NW ¼ of the SW ¼ of the NE ¼ Section 24 Township 14 SOUTH Range 13 EAST

No. of wells in this project: 1

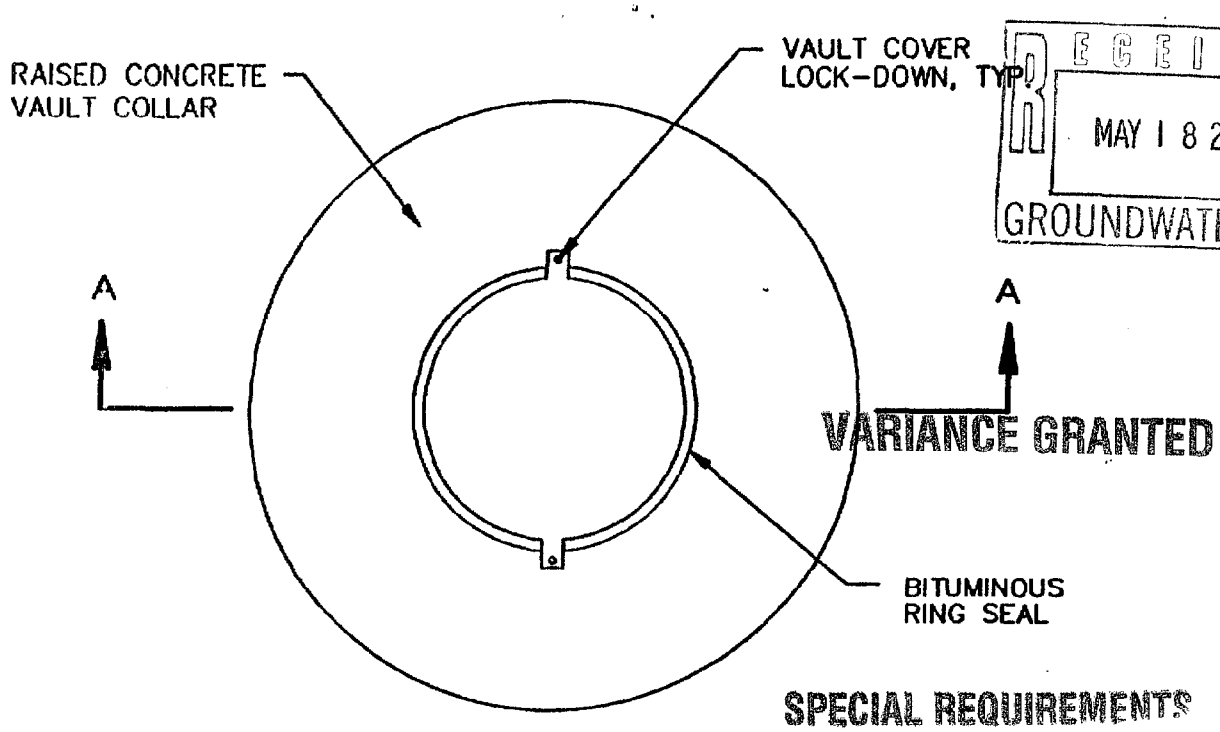
THIS AUTHORIZATION EXPIRES AT MIDNIGHT ON THE 17TH DAY OF MAY, 2001

NCD

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

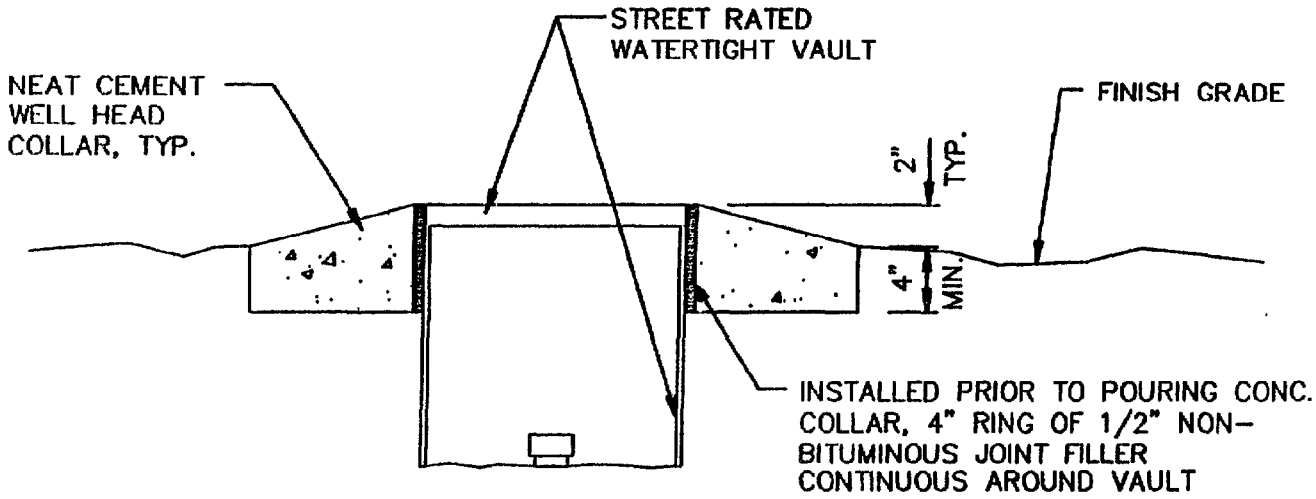


RECEIVED
MAY 18 2000
GROUNDWATER MGT

VARIANCE GRANTED

SPECIAL REQUIREMENTS

PLAN VIEW



SECTION A–A
NTS

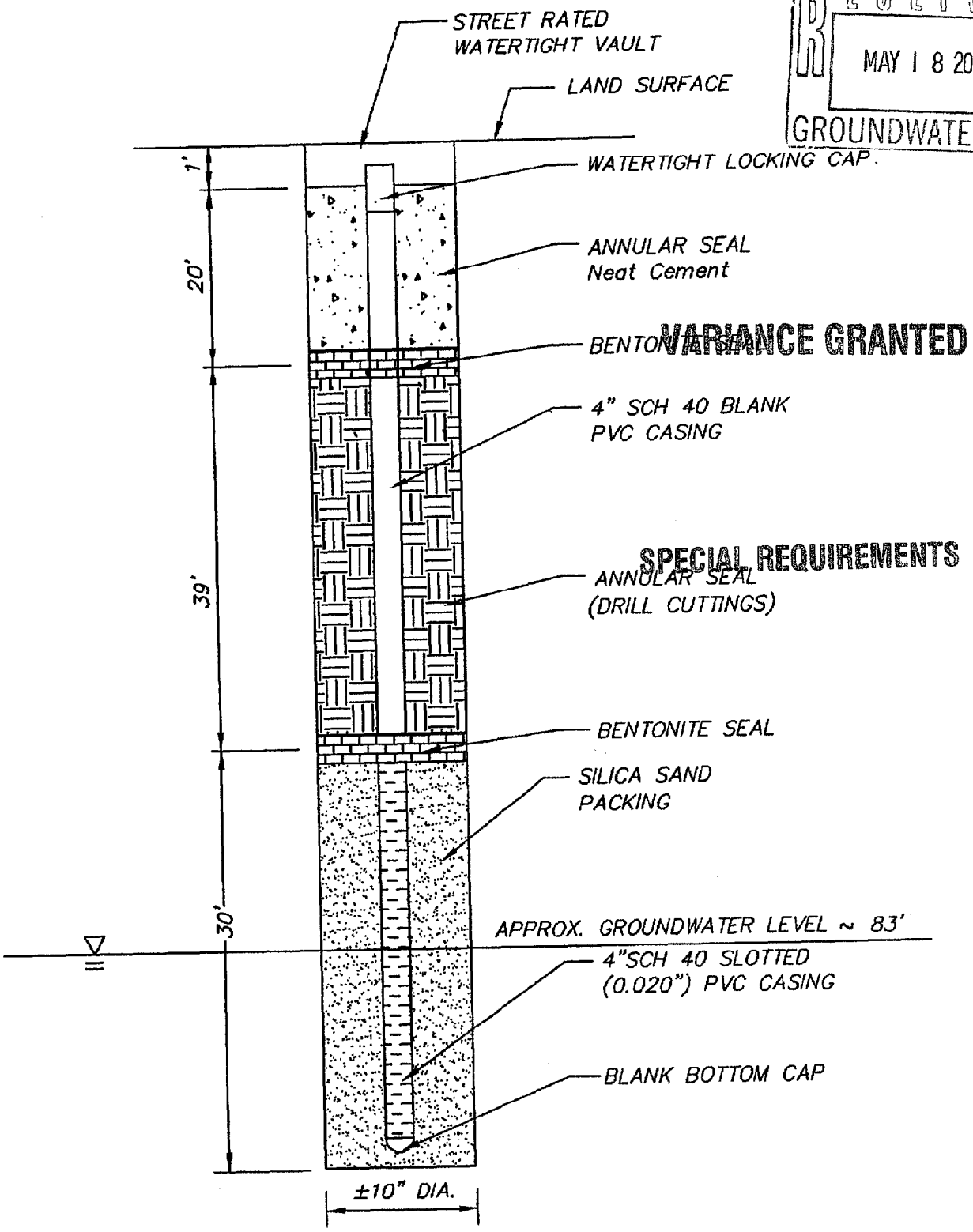
WELL VAULT DETAIL

ENVIRONMENTAL ENGINEERING CONSULTANTS, INC.
4825 E. FT. LOWELL RD. · SUITE 200 · TUCSON, ARIZONA · 85712

SCALE N.T.S.

PLT SCALE 1"=20'

RECEIVED
MAY 18 2000
GROUNDWATER MGT



VARIANCE GRANTED
SPECIAL REQUIREMENTS

ENGINEERING AND ENVIRONMENTAL CONSULTANTS, INC.
4625 E. FT. LOWELL RD. · TUCSON, ARIZONA · 85712

DESIGNED BY:	JTM
DRAWN BY:	WJC
CHK'D BY (DESIGN):	JJH
DATE:	05/00
SCALE: HORIZ.	N/A
VERT.	NTS

MONITORING WELL SCHEMATIC

KATCHER PROPERTY

1700 S. 6th AVE.
TUCSON, ARIZONA

1785MW1.DWG

Geomechanics Southwest, Inc.

"GeoEnvironmental Exploration and Well Construction"

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

May 24, 2000

RECEIVED
MAY 2 0 2000
HYDROLOGY DIV.

Arizona Department of Water Resources
Hydrology Division
500 North 3rd Street
Phoenix, Arizona 85004

ATTN: Mr. Greg Wallace
Chief Hydrologist

RE: Request for Variance, Monitor Wells
Pima County, Arizona
Registration Numbers 55-581291 through 55-581295

Mr. Wallace:

Geomechanics Southwest, Inc., hereby submits this request for a construction variance relating to a notice of intent to drill five monitor wells, identified by the above referenced registration numbers. The purpose of these wells will be to evaluate potential groundwater contamination.

We are requesting the following construction variance from the provisions of section R12-15-811., "Minimum well construction requirements":

Sub-section B.1 , Surface Seal

* Thermoplastic (PVC) inner casing (riser) with a locking watertight cap will be used in lieu of steel surface casing. The riser will comply with ASTM Standard Guide D5092, Section 6.5.

Sub-section I. , Completion at the Surface

* The wells will be completed below the land surface in a flush-to-ground, vandalproof, traffic-rated vault per ASTM Standard Guide D5092, Section 8.9.2.3.

Your prompt attention to this matter would be greatly appreciated. Please contact me personally if you have any questions or need additional information or assistance.

Respectfully submitted by,

GEOMECHANICS SOUTHWEST, INC.

Timm Porter
Operations Manager / Tucson

TDP/tp
Copies (1) addressee
DWR0524M

7400 S. Nogales Highway, #4, Tucson, AZ, 85706 Ph. (520) 889-7787 FAX (520) 889-8561
1212 S. 9th Street, Phoenix, Arizona 85034 Ph. (602) 252-0559 FAX (602) 252-0721

ARIZONA DEPARTMENT OF WATER RESOURCES
Hydrology Division
500 North Third Street, Phoenix, Arizona 85004
Telephone 602-417-2448
Fax 602-417-2425

May 23, 2000

JANE DEE HULL
Governor

Mr. Michael Katcher
347 Pauls Crescent
Osler, Saskatchawan, Canada SOK3A0

Re: Notice of Intent to Drill Five Monitor Wells
Registration Numbers 55-581291 through 55-581295

Dear Mr. Katcher:

The Arizona Department of Water Resources received your request dated May 18, 2000 for construction of five monitor wells to be located in Pima County.

The Department has reviewed the above referenced application to determine if the application meets the substantive requirements of A.R.S. §45-596(D) and A.A.C. R12-15-820. Pursuant to A.R.S. §41-1075, the Department has determined that additional information is required and is being requested through Geomechanics Southwest.

The following information must be submitted before the Department can complete its review.

- A variance request to use thermoplastic casing with a watertight cap in lieu of steel

Failure to submit the information requested within 62 days may result in the denial of the application. The Department's substantive review time frame is suspended until all of the requested information is provided.

If you have any questions, please contact Bruce Hammett of my staff at 602-417-2400 extension 7301.

Sincerely,

Frank Corkhill
Technical Support Section Supervisor

FC/BH/mr
503050

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

June 02, 2000

JANE DEE HULL
Govenor

RITA P. PEARSON
Director

MICHAEL KATCHER
347 PAULS CRESCENT
OSLER, SA S0K3A0

Registration No. 55-581294
File No. D(14-13) 24 ACB

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,

Gloria Moss

Gloria Moss
Water Resource Technician
Groundwater Management Support Section

Enclosures

GROUNDWATER MANAGEMENT SUPPORT SECTION

MAIL TO: P.O. BOX 458, PHOENIX, ARIZONA 85001-0458
FOR INFORMATION: CALL MONICA ORTIZ AT (602) 417-2470

RECEIVED MAY 18 2000 GROUNDWATER MG

NOTICE OF INTENTION TO DRILL MONITOR/PIEZOMETER WELL

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

1. Well/land Location:

14 N/S 13 E/W 24
Township Range Section

NW ¼ SW ¼ NE ¼
10 Acre 40 Acre 160 Acre

2. Position location of the well on the land:

Latitude 32 o 12 ' 06 "

Longitude 110 o 58 ' 09 "

3. County: Pima

4. Owner of the well:

Michael Katcher
Name
347 Pauls Crescent
Mailing Address
Osler, Saskatchawan, Canada
City State Zip
SOK3AO
Telephone No. 306-239-4647

6. Owner of the Land of Wellsite:

Michael Katcher
Name
347 Pauls Crescent
Mailing Address
Osler, Saskatchawan, Canada
City State Zip
SOK3A0
Telephone No. 306-239-4647

7. Consulting firm:

EEC, Inc.
Name
Michael Murray
Contact Person

Telephone No. 520-321-4625

8. Purpose of well drilled pursuant to this notice:

Monitor X
Piezometer

9. If for deepening or modifying, list well registration number:

55-

10. Will this proposed well be associated with a permit: Yes ____ **No** X
If yes, Permit No. ____

11. Construction will start:

4 24 2000
Month Day Year

12. Period well will remain in use:

2 years Months/Years

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

Yes ____ No X

(a) If yes, design pump capacity:

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

14. Drilling Firm:

ENGINEERING & ENVIRONMENTAL CONSULTANTS, INC.
4625 EAST FORT LOWELL ROAD, SUITE 200
TUCSON, ARIZONA 85712
(520) 321-4625

COMMERCIAL FEDERAL BANK
7225 NORTH ORACLE
TUCSON, ARIZONA 85704
91-506/1221

CHECK NO. 20463

PAY

Exactly Fifty and xx / 100 Dollars

DATE 5/15/00

AMOUNT $50.00

TO THE ORDER OF
Arizona Dept. of Water Resources
P.O. Box 458
Phoenix AZ 85001-0458

[redacted]
AUTHORIZED SIGNATURE

[redacted]

Kevin Snyder

18. If construction plans have been coordinated with Arizona Department of Water Resources, who is the agency contact? ____

DWR-55-44a (Rev 1/99)

Michael Katcher

VARIANCE CHECKLIST - HYDROLOGY

DATE RECEIVED 5/18/00
DATE TO HYDRO 5/19/00
DATE TO GMSS 5-30-00

POTENTIAL REG. Nº 55- 581291-95

55-_____ THRU 55-_____

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:

5	MONITOR	____	CATHODIC PROTECTION
____	PIEZOMETER	____	GROUNDING
____	GEOTECHNICAL	____	HEAT PUMP
____	MINERAL EXPLORATION		
____	WATER PRODUCTION	____	OTHER _____

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: Clock stopped 5-24-00 bab
Variance letter received 5-26-00
Okay - bab

NOI Variance Checklist for Hydrology - 01/12/00

HB