

**ARIZONA DEPARTMENT OF WATER RESOURCES
GROUNDWATER MANAGEMENT SUPPORT SECTION**

WQAR

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 13 W 24
Township Range Section
NW 1/4 SW 1/4 NE 1/4
10 Acre 40 Acre 160 Acre

2. Position location of the well on the land:

Latitude 32 ° 12 ' 06 "
Longitude 110 ° 58 ' 09 "

3. County: Pima

4. Owner of the well:

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

5. Lessee of the land of wellsite:

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

6. Owner of the Land of Wellsite:

Michael Katcher
Name
347 Pauls Crescent
Mailing Address
Osler, Saskatchewan, 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
Piezometer

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

55-

10. Will this proposed well be associated with a permit: Yes No

If yes, Permit No. _____

11. Construction will start:

4 24 2000

VARIANCE GRANTED

12. Period well will remain in use:

2 years Months/Years

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

Yes No

SPECIAL REQUIREMENTS

(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

FOR DEPARTMENT USE ONLY
DC14-13-24 ACB
File No. _____
Filed 5-18-00 By VLB
Input 5-1-00 By gm
DUPLICATE
Mailed 6-8-00 By gm
Registration 55-551295
AMA/INA TULSA
W/S 09 S/B 16

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? 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? _____

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

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

WELL REGISTRATION NO: 55-581295

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

ms
GROUNDWATER MANAGEMENT SUPPORT

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



RAISED CONCRETE
VAULT COLLAR

VAULT COVER
LOCK-DOWN, TYP.

A

A

VARIANCE GRANTED

BITUMINOUS
RING SEAL

SPECIAL REQUIREMENTS

PLAN VIEW

NEAT CEMENT
WELL HEAD
COLLAR, TYP.

STREET RATED
WATERTIGHT VAULT

FINISH GRADE

2"
TYP.

4"
MIN.

INSTALLED PRIOR TO POURING CONC.
COLLAR, 4" RING OF 1/2" NON-
BITUMINOUS JOINT FILLER
CONTINUOUS AROUND VAULT

SECTION A-A
NTS

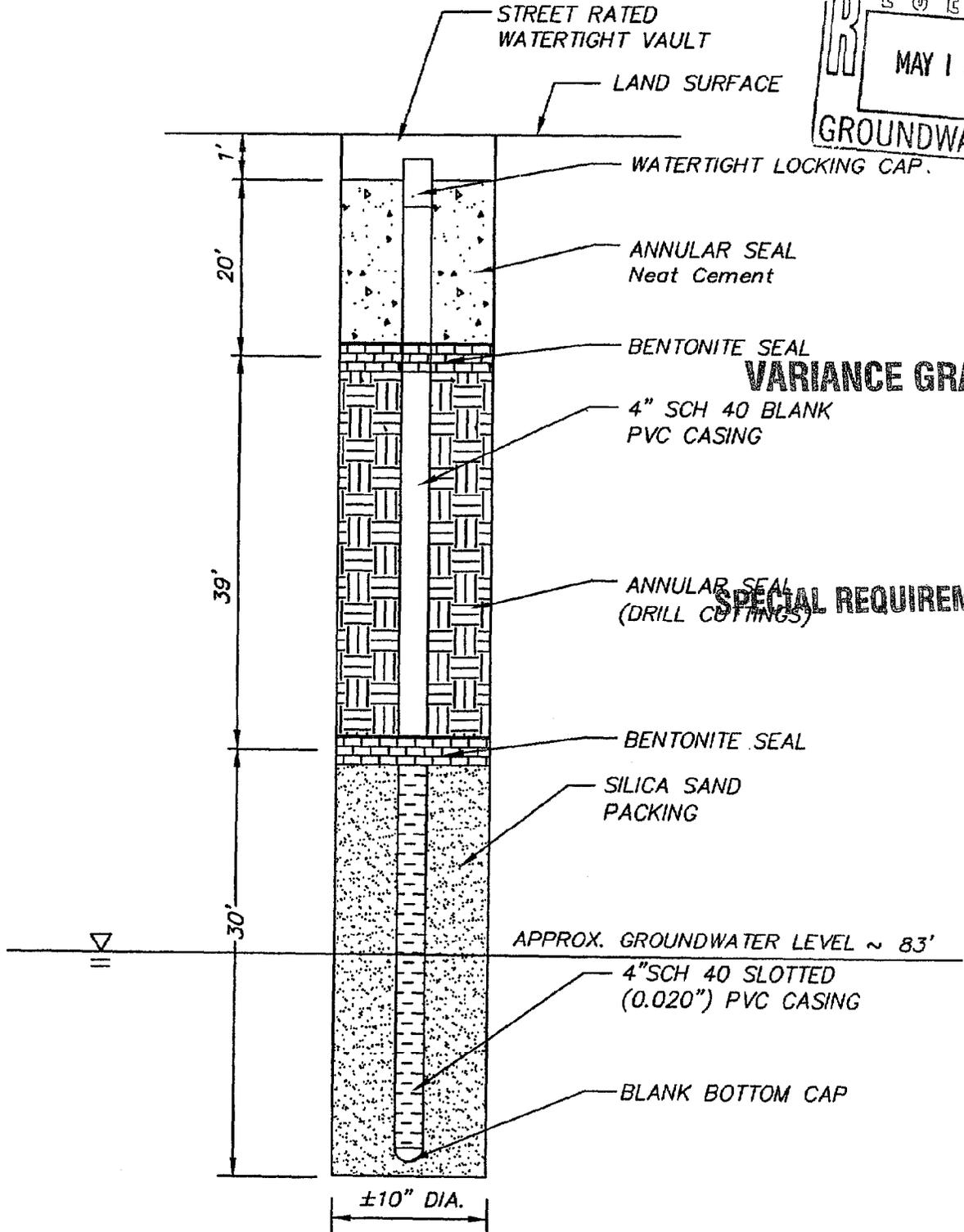
WELL VAULT DETAIL

ENVIRONMENTAL ENGINEERING CONSULTANTS, INC.
4823 E. FT. GAZELL RD. SUITE 200 TUCSON, ARIZONA 85712

SCALE N.T.S.

PLT SCALE 1"=20'

RECEIVED
MAY 18 2000
GROUNDWATER MGT



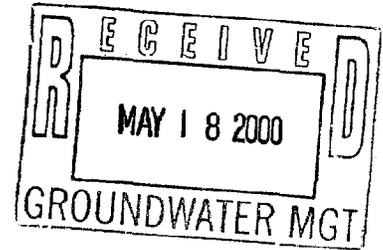
ENGINEERING AND ENVIRONMENTAL CONSULTANTS, INC.
4625 E. FT. LOWELL RD. • TUCSON, ARIZONA • 85712

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

MONITORING WELL SCHEMATIC
KATCHER PROPERTY

1700 S. 6th AVE.
TUCSON, ARIZONA

1785M.W1.DWG



civil engineering

May 15, 2000

transportation

Groundwater Management Support Section
Arizona Department of Water Resources
P.O. Box 458
Phoenix, Arizona 85001-0458

environmental services

**Re: Notice of Intent to Drill Monitoring Wells, Katcher LUST Facility
South Tucson, Arizona (ADEQ LUST File 4482.03)**

water resources

To Whom It May Concern:

land surveying

Environmental Engineering Consultants, Inc., on behalf of our client, Mr. Michael Katcher, is submitting ten signed original "Notice of Intention to Drill Monitoring/Piezometer Well" forms for review and approval. Two original forms are being submitted for each of the five wells to be drilled. Also enclosed is a check in the amount of \$50 for the application fees.

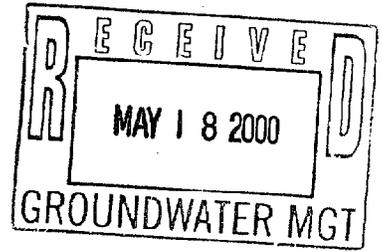
site development

The wells are to be placed as part of an ongoing investigation of petroleum hydrocarbon impacted groundwater resulting from a leaking underground storage tank (LUST). Two of the wells will be constructed on an adjacent property owned by Ms. Victoria Alpert. A Property Access Agreement has been negotiated between Mr Katcher and Ms. Alpert. A copy of the signed agreement is attached to each set of permit applications for the wells to be constructed on Ms. Alper's property. Through the property access agreement, Mr. Katcher qualifies as the lessee of the property, and as such, signed the permit applications.

hydrology

We are also requesting variances to complete the well heads below grade in street rated water-tight vaults. The wells will be constructed of schedule 40 PVC and a minimum 20-foot annular seal of neat cement will be installed.

landscape architecture



Should you have any questions or require additional information, please contact the undersigned at (520) 321-4625. Thank you for your time and cooperation.

Sincerely,
ENVIRONMENTAL ENGINEERING CONSULTANTS, INC.

A handwritten signature in black ink, appearing to read "Michael J. Murray". The signature is fluid and cursive, with a long horizontal stroke extending to the right.

Michael J. Murray
Vice President

cc: Michael Katcher
File 99009

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, Saskatchewan, Canada S0K3A0

**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,

A handwritten signature in black ink, appearing to read "Frank Corkhill".

Frank Corkhill
Technical Support Section Supervisor

Geomechanics Southwest, Inc.

"GeoEnvironmental Exploration and Well Construction"

ADWR Lic. No. 498

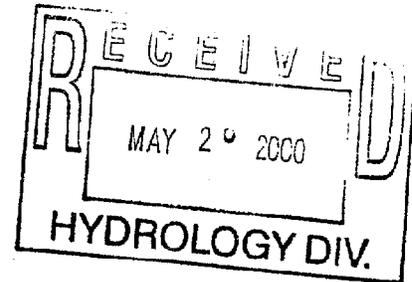
AROC Lic. No. 079441, Class. A-04

May 24, 2000

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.

A handwritten signature in black ink, appearing to read "Timm Porter".

Timm Porter
Operations Manager / Tucson

TDP/tp
Copies (1) addressee
DWR0524M

ARIZONA DEPARTMENT OF WATER RESOURCES

Hydrology Division

500 North Third Street, Phoenix, Arizona 85004

Telephone 602-417-2448

Fax 602-417-2425

May 26, 2000



JANE DEE HULL
Governor

RITA P. PEARSON
Director

Geomechanics Southwest, Inc.
7400 S Nogales Hwy #4
Tucson, AZ 85706

Attn: Timm Porter

**RE: Variance for Construction of Five Monitor Wells
Registration Numbers 55-581291 through 55-581295**

Dear Mr. Porter:

The Arizona Department of Water Resources received your request dated May 26, 2000 for a construction variance for five monitor wells to be located in Pima County. The purpose of these wells will be to evaluate existing groundwater contamination.

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

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

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

- The casing 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 well shall be abandoned (decommissioned) in accordance with A.A.C. R12-15-816.

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

Sincerely,

A handwritten signature in black ink, appearing to read "Frank Corkhill".

Frank Corkhill
Technical Support Section Supervisor

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 P. PEARSON
Director

June 02, 2000

MICHAEL KATCHER
347 PAULS CRESCENT
OSLER, SA S0K3A0

Registration No. 55-581295
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.

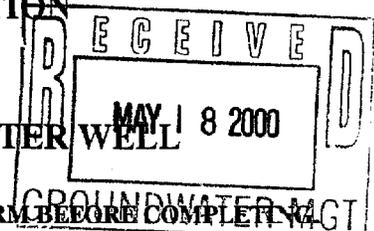
Sincerely,

Gloria Moss
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 MONITOR/PIEZOMETER WELL

EASE 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 ° 12 ' 06 "
Longitude 110 ° 58 ' 09 "

3. County: Pima

4. Owner of the well:

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

6. Owner of the Land of Wellsite:

Michael Katcher
Name
347 Pauls Crescent
Mailing Address
Osler, Saskatchewan, 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
20463

Exactly Fifty and xx / 100 Dollars

DATE AMOUNT
5/15/00 \$50.00

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

[Signature]
AUTHORIZED SIGNATURE

Unity Printers, Inc. 800-733-4277

Kevin Snyder

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

Michael Katcher

VARIANCE CHECKLIST - HYDROLOGY

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

POTENTIAL REG. N° 55- 581291-95
55- THRU 55-

FRONT OF N.O.I COMPLETE/CORRECT: YES [checked] NO

VARIANCE (?) LETTER RECEIVED YES NO [checked]
WELL DIAGRAM (?) RECEIVED YES [checked] 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:

[checked] REQUIRED [checked] 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 bal
Variance letter received 5-26-00
Okay - bal

Handwritten initials MB