

SEP 8 1995

MONITOR/PIEZOMETER WELL
FILING FEE \$10.00

ARIZONA DEPARTMENT OF WATER RESOURCES
Operations Division
500 NORTH THIRD STREET
PHOENIX, ARIZONA 85004 (602) 417-2470

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.

1. WELL LOCATION: RW-2
14 South 13 East 12
Township Range Section
SW 1/4 NW 1/4 SE 1/4
10 ACRE 40 ACRE 160 ACRE

2. Position location of the well on the land:
Latitude 32 ° 13 ' 36 "
Longitude 110 ° 58 ' 1 "

3. County: Maricopa PIMA

4. Owner of the land of wellsite:
Yellow Cab Company of Tucson
Name
129 East Pima Street
Address
Phoenix, Arizona 85004
City State Zip

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

6. Owner of well:
Yellow Cab Company of Tucson
Name
129 East Pima Street
Address
Phoenix, Arizona 85004
City State Zip

7. Consulting Basin & Range Firm: Hydrogeologists, Inc.
Contact Person: Philip J. Lagas
Phone: (602) 840-3333

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

9. If for deepening or modifying, Well Registration Number
55- N/A

10. Construction will start:
October 2 1995
Month Day Year

11. Period well will remain in use 10 Years

12. For monitoring wells, is pump equipment to be installed?
Yes _____ No X

(a) If yes, design pump capacity N/A
(b) What use will be made of the water N/A

13. Drilling firm:
H-F Drilling, Inc.
Name
2420 South 16th Avenue
Address
Phoenix, Arizona 85007
City State Zip
DWR License No. 529
A-04
ROC License classification

14. 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

DO NOT WRITE IN THIS SPACE
OFFICE RECORD
File No. D(14-13)12 DBC
Filed 9/8/95 By dh
Input _____ By _____
DUPLICATE
Mailed 9/25/95 By dh
Registration 55- 551760
AMAZONA TUCSON
W/S 09 S/B 16
ENTERED OCT 6 2 1995

VARIANCE GRANTED

SPECIAL REQUIREMENT

16. Proposed method of abandonment of well after project is completed: Backfill from total depth to the surface using cement bentonite grout.

17. Is this well to monitor existing contamination? _____ Potential contamination Yes Please explain: Well will be used to recover free product associated with a release of gasoline from an underground storage tank system.

GENERAL INSTRUCTIONS

- 1. Fill out this form in DUPLICATE and send WITH \$10.00 FEE to 500 North Third Street, Phoenix, AZ 85004.
- 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.

James M. Holshouser
Typed or Printed Name

Signature [X] Land Owner [] Lessee of wellsite

Sept 7, 1995
Date

18. If construction plans have been coordinated with Arizona Department of Environmental Quality, who is the agency contact?
Mr. Michael Skinner

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

19. WELL CONSTRUCTION PLAN

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

b) Borehole diameters: 14 inches from 0 feet to 87 feet.
N/A inches from _____ feet to _____ feet.

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

material PVC diameter 6 inches from 0 feet to 85 feet
material N/A 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 cement bentonite grout method tremied from surface feet to 40 feet
material bentonite pellets method tremied from 40 feet to 45 feet

f) Filter packs (state material):

material 8-12 Colorado silica sand or equivalent from 45 feet to 87 feet
material N/A from _____ feet to _____ feet

g) Perforations or screen specifications:

type no. 20 wire wrapped PVC well screen from 55 feet to 80 feet
type _____ from _____ feet to _____ feet

h) Method of well development (bail, air lift, surge) bail and surge; pump using a submersible

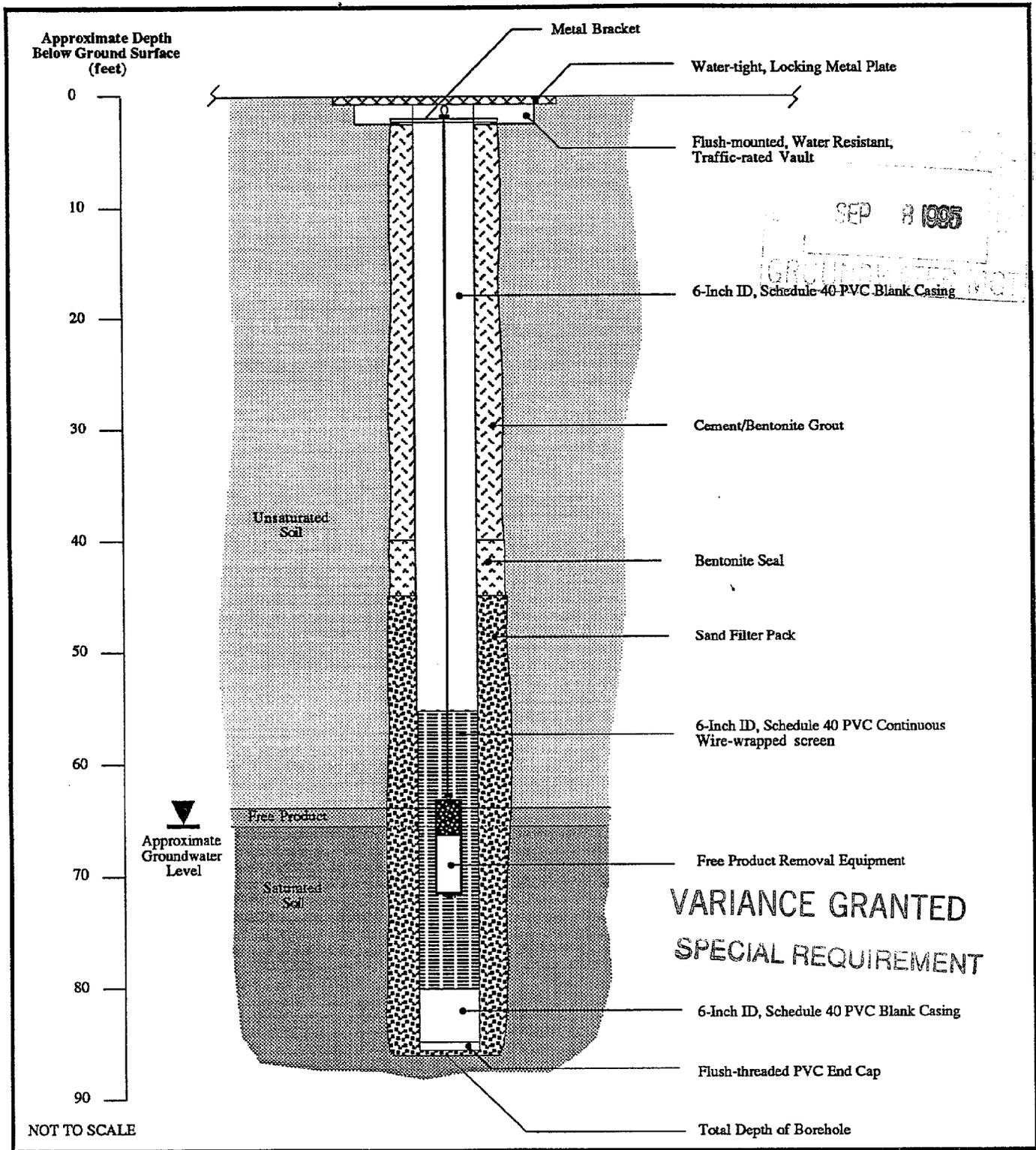
i) Will surface or conductor casing extend above grade: Yes _____ No X

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

A well construction diagram is provided in Exhibit 1. The well will be completed below grade with a locking vault. A Request for Variance letter prepared by the drilling firm is attached.

CONDITIONS

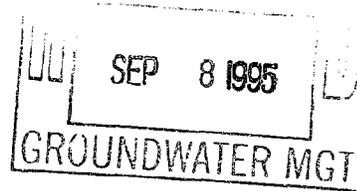
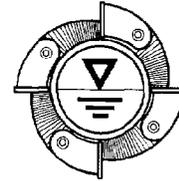
- I. Construction and abandonment standards for all wells shall be in accordance with A.A.C. R12-15-811 and R12-15-816.
- II. Drilling of the well shall be completed within one (1) year after the date of Notice.
- III. A Well Driller Report, is required within 30 days of completion of drilling. A Completion 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. Special construction standards required pursuant to A.A.C. Rule R12-15-821:



<p>CLIENT: YELLOW CAB COMPANY OF TUCSON</p>	<p>PROPOSED DESIGN FOR RECOVERY WELL RW-3</p>	<p>EXHIBIT 1</p>
<p>FILE NO.: 94314.008</p>	<p>BASIN & RANGE</p>	<p>DATE: SEPTEMBER 5, 1995</p>

H-F DRILLING, INC.

geotechnical and environmental drilling



RECEIVED

AUG 30 1995

BASIN & RANGE
HYDROGEOLOGISTS

August 28, 1995

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

Attention: Ms. Kane

Subject: Request For Variance

Dear Ms. Kane:

On behalf of Basin and Range, ^{one} H-F Drilling, Inc. requests a variance in construction of ~~two~~ groundwater monitoring wells at the Yellow Cab Company of Tucson located at Township 14 South, Range 13 East, Section 12 in Tucson, Arizona.

The groundwater monitoring wells will be used to investigate a petroleum hydrocarbon potentially contaminated area at the site. We request the following construction variances:

1. The wells will be constructed with SCH 40 PVC casing in the top 20 feet of the well in lieu of steel casing.
2. The wells will be completed in a water-tight, traffic-rated flush grade vault.

Thank you for your attention to this request for variance. If you have any questions, please feel free to call.

Sincerely,

Ray Quintero
Field Supervisor

ARIZONA DEPARTMENT OF WATER RESOURCES

Hydrology Division

500 North Third Street, Phoenix, Arizona 85004

Telephone (602) 417-2448

Fax (602) 417-2425

September 18, 1995



FIFE SYMINGTON
Governor

RITA P. PEARSON
Director

H-F Drilling, Inc.
2420 S. 16th Avenue
Phoenix, Arizona 85007

ATTN: Mr. Quintero

Re: **Variance for Construction of One Monitor Well
Registration Number 55-551760**

Dear Mr. Quintero:

The Arizona Department of Water Resources received your request dated August 28, 1995 for a variance for construction of one monitor well to be located in Maricopa County. The purpose of this well will be to evaluate potential groundwater contamination.

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

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

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

- The well shall be completed flush-to-ground with vandalproof, traffic-rated vaults per ASTM Standard Guide D5092, Section 8.9.2.3.
- The PVC inner casing (riser) shall comply with ASTM Standard Guide D5092, Section 6.5.
- Well construction shall comply with the "Variance Granted" Notice of Intention to Drill.
- The well shall be abandoned (decommissioned) per ASTM Standard Guide D5299, Section 7.3.8.

If you have any questions, please contact Sharon Masek of my staff at (602) 417-2400 ext. # 7185.

Sincerely,

A handwritten signature in cursive script that reads "Greg Wallace".

Greg Wallace
Chief Hydrologist

ARIZONA DEPARTMENT OF WATER RESOURCES
GROUNDWATER MANAGEMENT SUPPORT SECTION
500 North Third Street
Phoenix, Arizona 85004-3903

VARIANCE GRANTED

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

WELL REGISTRATION NO: 55-551760

AUTHORIZED DRILLER: H-F DRILLING, INC.

LICENSE NO: 529

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

CONSULTANT: BASIN & RANGE

WELL OWNER: YELLOW CAB CO. OF TUCSON

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

SW 1/4 of the NW 1/4 of the SE 1/4 Section 12 Township 14S Range 13E

No. of wells in this project: 1

THIS AUTHORIZATION EXPIRES AT MIDNIGHT ON THE 7TH DAY OF SEPTEMBER, 1996.



CHIEF, GROUNDWATER MANAGEMENT SUPPORT



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

ARIZONA DEPARTMENT OF WATER RESOURCES

500 North Third Street, Phoenix, Arizona 85004

Telephone (602) 417-2470

Fax (602) 417-2422

September 27, 1995

Yellow Cab Company of Tucson
129 East Pima Street
Phoenix, AZ 85004

RE: Registration No. 55-551760
File No. D(14-13)12DBC

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,

Dorothy Boggs
Groundwater Permit Specialist

