



CONTACT INFORMATION
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 ARIMETCO
INTERNATIONAL INC.

December 27, 1994

Arizona Department of Water Resources
15 South 15th. Avenue
Phoenix, Arizona 85007

To whom it may concern:

This letter is in regard to Well Registration No. 55-540719. This well has been drilled to a depth of 315 feet. A surface seal consisting of 20 feet of steel casing has been installed. At the moment however the well has not been completed as a monitor well. The well is anticipated to be completed as soon as possible. Upon completion a well drillers report will be submitted. If you have any questions concerning this well please contact me at (602) 721-1505.

Sincerely,



Allen E. Wells

ARIZONA DEPARTMENT OF WATER RESOURCES
15 South 15th Avenue
Phoenix, Arizona 85007

WELL DRILLER REPORT

This report should be prepared by the driller in all detail and filed with the Department within 30 days following completion of the well.

1. Owner Name: ARIMETCO, INC.
Address: 950 N. FINANCE CENTER DR. #180 TULSON, AZ 85710
Street City State Zip
2. Driller Name: SAME AS OWNER
Address: _____
Street City State Zip
3. Location: 11 NS 4 EW 12 NW1/4 NE 1/4 SW 1/4
Township Range Section 10-acre 40-acre 160-acre
4. Well Registration No. 55- 540 719 (Required)
5. Permit No. - (If issued)

DESCRIPTION OF WELL

6. Total depth of hole 315 ft.
7. Type of casing STEEL
8. Diameter and length of casing 8" in. from 0 to +18', _____ in from _____ to _____.
9. Method of sealing at reduction points _____
10. Perforated from _____ to _____, from _____ to _____, from _____ to _____.
11. Size of cuts _____ Number of cuts per foot _____
12. If screen was installed: Length - ft. Diam - in. Type -
13. Method of construction AIR ROTARY - DRILLED
(drilled, dug, driven, bored, jetted, etc)
14. Date started OCTOBER 7 1993
Month Day Year
15. Date completed JANUARY 5 1994
Month Day Year
16. Depth to water _____ ft. (If flowing well, so state)
17. Describe point from which depth measurements were made, and give sea-level elevation if available
DEPTH MEASURED FROM GROUND LEVEL,
18. If flowing well, state method of flow regulation: N/A
19. Remarks: _____

DO NOT WRITE IN THIS SPACE
OFFICE RECORD

Registration No. 55-540719
File No. B(11-4)12cab
Received _____ By _____
Entered _____ By _____

LOG OF WELL

Indicate depth at which water was first encountered, and the depth and thickness of water bearing beds. If water is artesian, indicate depth at which encountered, and depth to which it rose in well.

From (feet)	To (feet)	Description of formation material
0	10	Fill
10		Chlorite schist / Bleached and weathered at top
		± Patchy Si
		Most likely weakly foliated greenstone with Qtz + felds phenos
100		
120	130	Qtz & silicified rock
	170	Silicified greenstone
	210	Qtz + felds phenos chlorite schist
		greenstone; coarse chlorite in silicified massive matrix
		± hyp Qtz
	300	± hyp epidote dec. Si over chlorite

I hereby certify that this well was drilled by me (or under my supervision), and that each and all statements herein contained are true to the best of my knowledge and belief.

Driller Name: _____

Street _____

City _____ State _____ Zip _____

Date _____

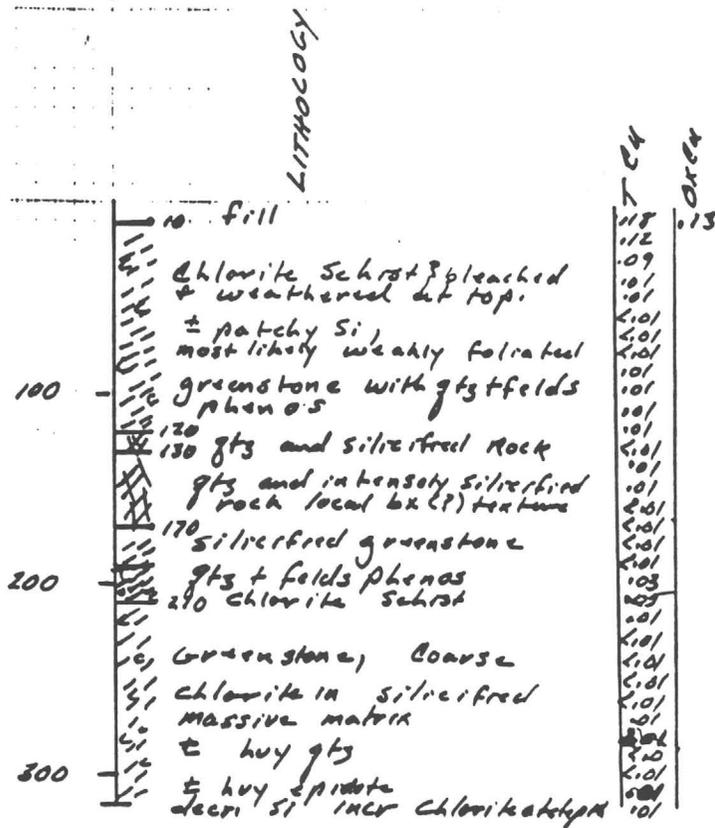
MONITOR WELL

ZONIA
 HOLE - A-14
 Comp. 1127193
 TD 315'
 -90°

COORDS

FN

SEE

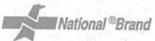


ELEV. =

1" = 100'

NOTE: LOST 2 CONES IN HOLE, ABANDONED AT 315'

18' OF 8" CASING INSTALLED AT SURFACE WITH 1' STUCK UP.



42-381 50 SHEETS EYE-EASE® 5 SQUARE
42-382 100 SHEETS EYE-EASE® 5 SQUARE
42-389 200 SHEETS EYE-EASE® 5 SQUARE
42-392 100 RECYCLED WHITE 5 SQUARE
42-399 200 RECYCLED WHITE 5 SQUARE
Made in U. S. A.

Pump Selection: A-14

WELL DIAMETER: 5 7/8"

Voltage: 120 V

DESIRED YIELD: 5 gpm

Phase: single

TOTAL DYNAMIC H₂O: 231'

Pump: CENTRIFUGAL

PWL: 230'

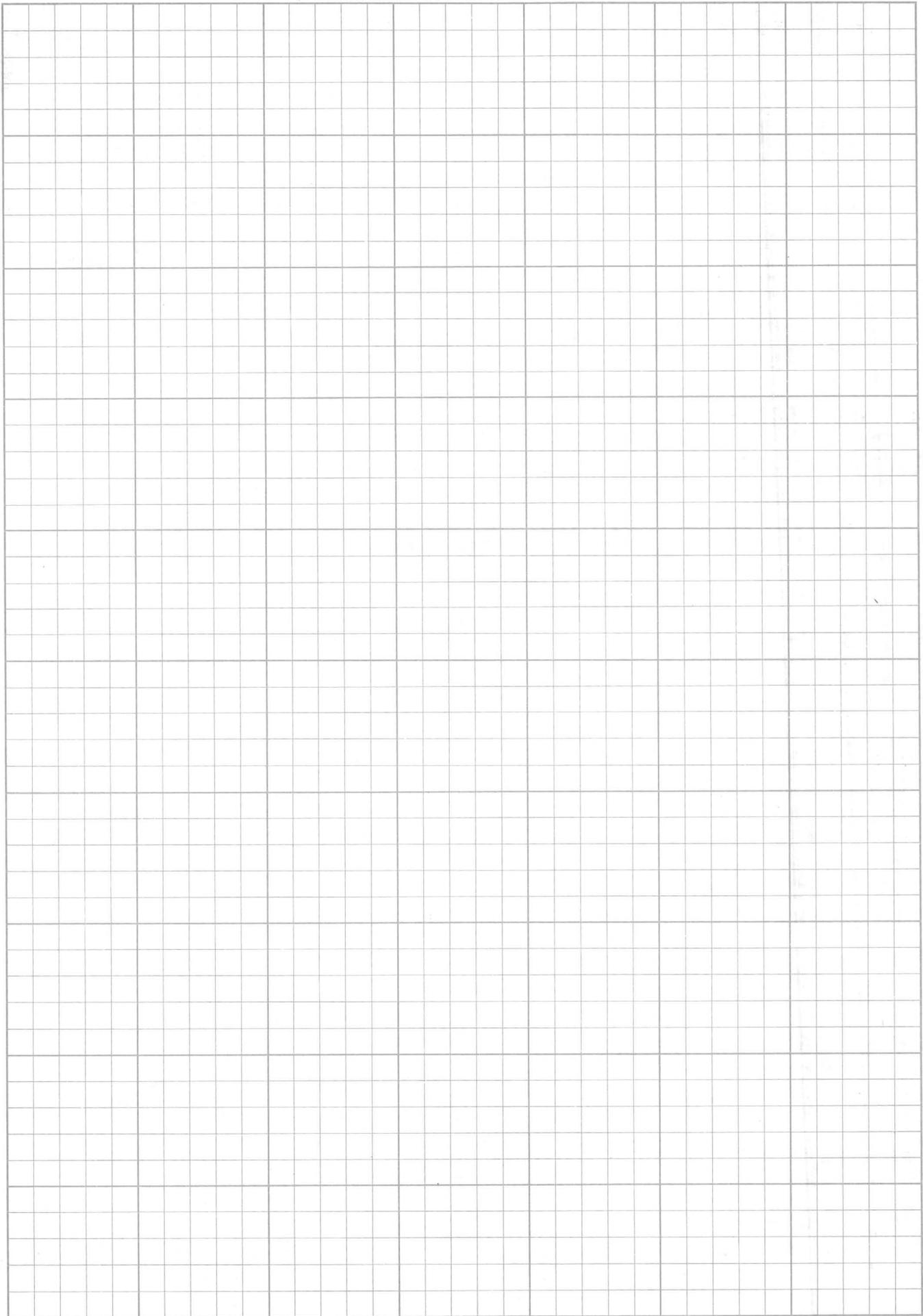
HP: 0.29 hp ≈ 1/2 hp

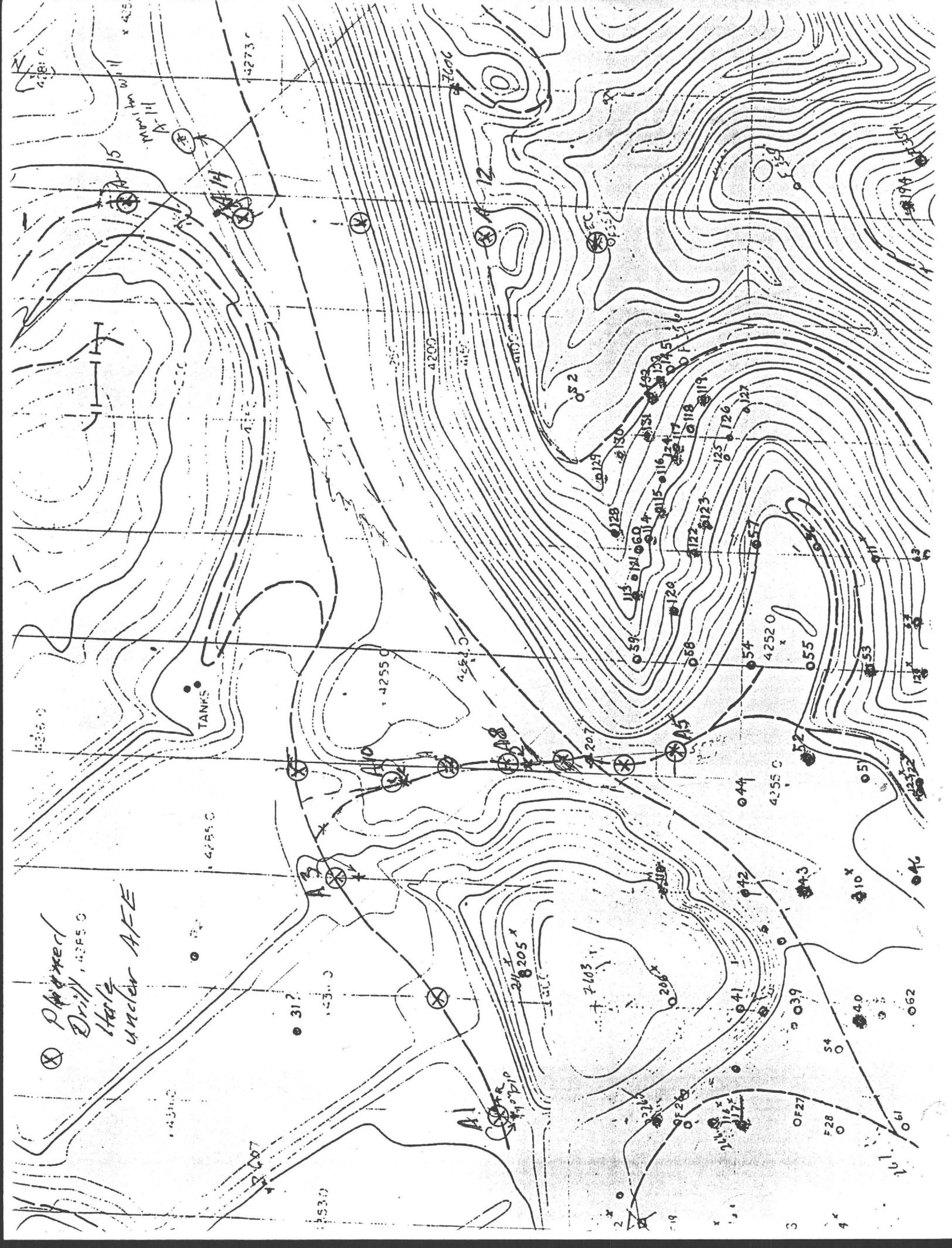
SWL: 200

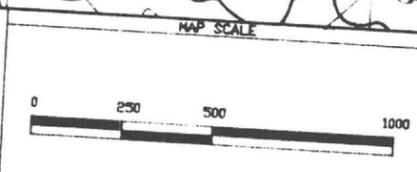
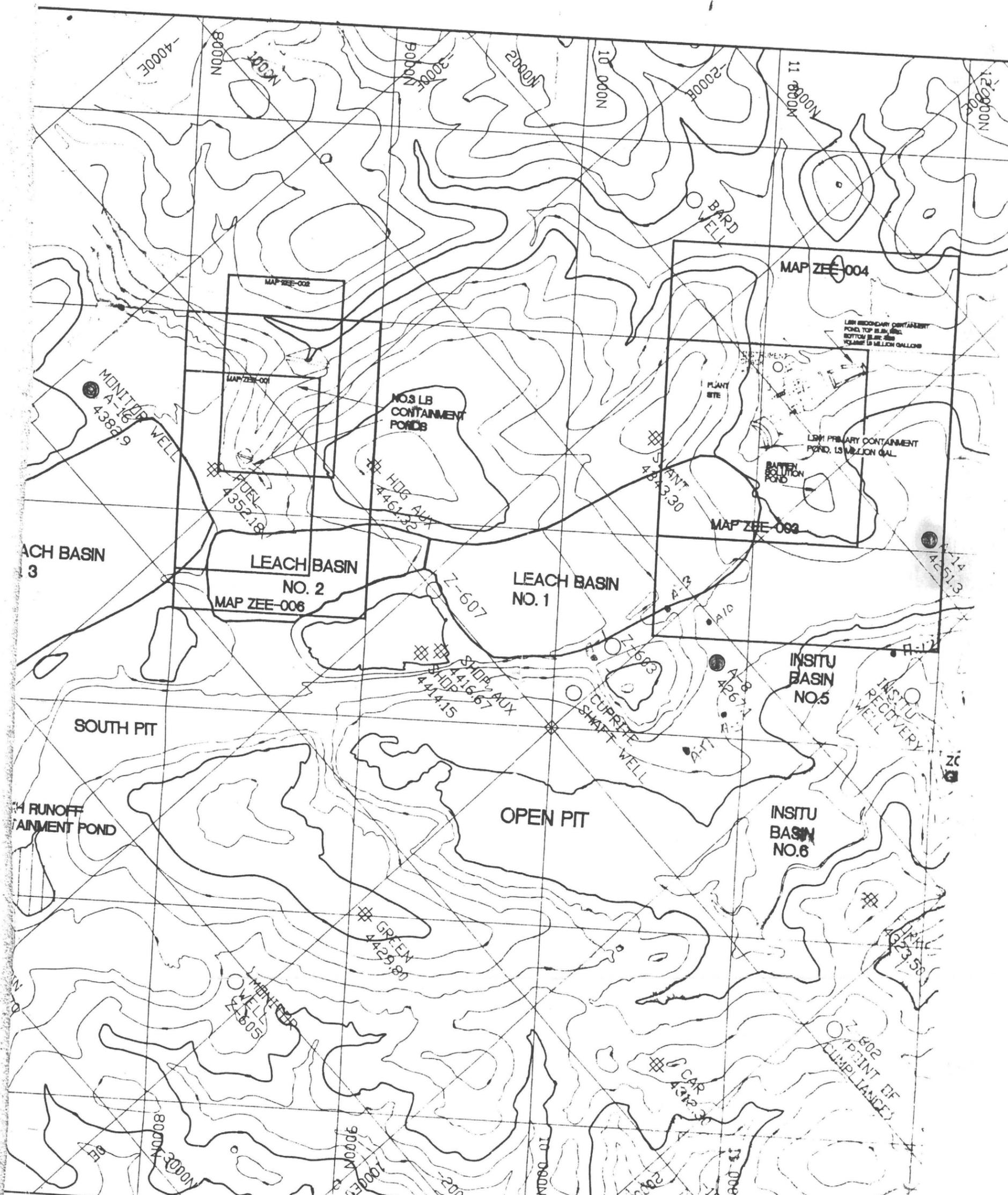
ADJACENT GROUND: 1'

FRICTION LOSS: 20' SEE A-16

1920







NO	DATE	MADE BY	DESCRIPTION
1			
2			
3			
4			
5			

DATE	DRAWN BY	CHECKED	APPROVED
06-09-98	MUNROE	5/13/03	H. Noto

ARIMETCO INTERNATIONAL INC.
 ZONIA PROJECT
 YAPAVAI Co., AZ

OFFICE: CORPORATE
 DEPARTMENT: ENGINEERING

September 9, 1993

Arizona Department of Water Resources
15 South 15th Avenue
Phoenix, Arizona 85007

Re: Two notices of intention to drill monitor wells

Dear Sirs:

Enclosed are two notices of intention to drill monitor wells in Township 11 North, Range 4 West, Section 12 and 14. A design drawing of well construction is included along with a check in the amount of twenty (20) dollars to cover the filing fee. If you have any questions or concerns please do not hesitate to contact me at (602) 745-8882.

Respectfully submitted,

Allen E. Wells
Engineer

Enclosures

MONITOR/PIEZOMETER WELL

ARIZONA DEPARTMENT OF WATER RESOURCES

MONITOR/PIEZOMETER WELL

FILING FEE \$10.00

15 SOUTH 15TH AVENUE
PHOENIX, ARIZONA 85007

FILING FEE \$10.00

NOTICE OF INTENTION TO DRILL MONITOR/PIEZOMETER WELL(S)

Section §45-596, Arizona Revised Statutes provide: Prior to drilling a monitor or piezometer well, the well owner or lessee shall file a Notice of Intention to Drill on a form provided by the Department

1. WELL/LAND LOCATION:

11 (N)S | 4 (E)W | 12
Township | Range | Section

10 Acre Subdivision

NW 1/4 | NE 1/4 | SW 1/4
10 ACRE | 40 ACRE | 160 ACRE

2. County YAVAPAI

3. Applicant:

ARIMETCO INC.
Name

6245 E. BROADWAY #350
Address

TUCSON AZ 85711
City State Zip

4. ALLEN E. WEIN
Name of Contact Person

Phone (602) 745-8882

Agency _____

5. Owner of Well:

ARIMETCO INC.
Name

6245 E. BROADWAY
Address

TUCSON AZ 85711
City State Zip

6. Purpose of well drilled pursuant to this notice:

Monitor X

Piezometer _____

7. If for Deepening, Well Registration No:

55- _____

8. Owner of Land:

THE ZONIA COMPANY
Name

22 S. MARINA ST.
Address

TUCSON AZ 85711
City State Zip

9. Construction will start:

SEPT 20 93
Month Day Year

10. Period well will remain in use 10 Months/Years

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

(a) If yes, design pump capacity 8 gpm

(b) Type of pump: SUBMERSIBLE
submersible, turbine, etc

(c) What use will be made of the water MONITOR

12. Drilling Firm:

ARIMETCO INC.
Name

6245 E. BROADWAY
Address

TUCSON AZ 85711
City State Zip

DWR License No. 546

NOT REQUIRED
ROC Category

DO NOT WRITE IN THIS SPACE
OFFICE RECORD

File No. _____
Filed _____ By _____
Input _____ By _____

DUPLICATE
Mailed _____ By _____
Registration 55- _____
AMA/INA _____
W/S _____ S/B _____

13. Proposed method of abandonment of well after project is completed: BACK FILL WITH

BENTONITIC CLAY MIX AND CEMENT PUG TOP 20 FEET

14. Is this well to monitor existing contamination? _____ Potential contamination X Please explain:

BACKGROUND WATER QUALITY AT THE ZONIA MINE

GENERAL INSTRUCTIONS

- 1. Fill out this form in DUPLICATE and send WITH \$10.00 FEE to 15 South 15th Avenue, Phoenix, AZ 85007.
- 2. For specific instructions, limitations and conditions, see the reverse side of this form.

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.

SEPT 3, 1993

Date
DWR 55-44-7/90 (Rev.)

Signature of Applicant/Owner

ALLEN E. WEIN

Agency: Arimetco Inc

15. If construction plans have been coordinated with Az. Dept. of Environmental Quality, who is the agency contact? MR. ED POND

If construction plans have been coordinated with Az. Dept. Water Resources, Hydrology/Water Quality Division, who is the division contact? _____

16. WELL CONSTRUCTION PLAN

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

b) Borehole diameters: 12 1/2 inches from 0 feet to 20 feet
7 5/8 inches from 20 feet to 315 feet

c) Casing materials (PVC, steel, stainless steel, etc.):

material STEEL diameter 8 5/8 inches from 0 feet to 20 feet

material PVC diameter 4" I.D. inches from 0 feet to 315 feet

d) Method of sealing at reductions _____

e) Annular seal materials (cement, grout, etc.); method of placement (tremied, circulated)

material CEMENT diameter 3" inches from 0 feet to 20 feet

material BENTONITE diameter 3" inches from 20 feet to 315 feet

f) Gravel packs (state material and whether natural or artificial):

material 1/4" gravel, natural inches from 190 feet to 315 feet

material _____ inches from _____ feet to _____ feet

g) Perforations (if pre-manufactured, please give specs of perforations or screens:

type SLOTS CUT IN PVC CASING from 190 feet to 315 feet

type _____ from _____ feet to _____ feet

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

i) Will surface or conductor casing extending above grade be used to protect the aquifer from additional surface contaminants during drilling and construction? Yes No

17. Include detailed construction diagram, if available.

18. 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 areas and tanks? Yes No

CONDITIONS

- I. Construction and abandonment standards for all wells shall be in accordance with A.A.C. Rules 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 amount 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: _____