

EXEMPT WELL

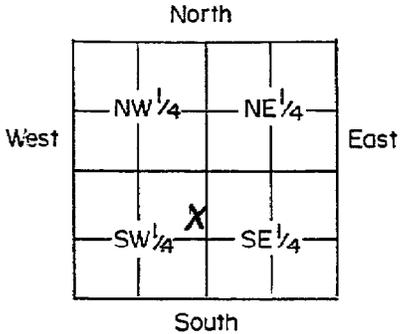
DEPARTMENT OF WATER RESOURCES

EXEMPT WELL

FILING FEE: \$3.00

NOTICE OF INTENTION TO DRILL OR DEEPEN AN EXEMPT WELL

Section 45-596, Arizona Revised Statutes, provides: A person may not drill or cause to be drilled any well or deepen or replace an existing well without first filing a Notice of Intention to Drill with the Department on a form prescribed and furnished by the Department. The well shall be completed within one year after the date of Notice. An exempt well means a well having a pump with a maximum design capacity of not more than 35 gallons per minute which is used to withdraw groundwater. An exempt well may include the non-commercial irrigation of not more than 1 acre of land.



-Indicate Well Location by X (Above diagram represents one 640 acre section)

DESCRIPTION OF WELL:

8. Diameter 6"
Depth 75'
9. Type of Casing 2" PVC & 4" STEEL SURFACE CASING
10. Principal use of Water. MONITORING WELL (WT-4)

PLACE OF USE: N.A.

13. Township _____
14. Range _____
15. Section _____
16. Legal description of land water is to be used on: _____

11. Other uses Intended

NONE
(If for non-commercial irrigation, state approximate area being cultivated.)

17. Design Pump Capacity

N/A

18. Action Requested:

Drill X
Deepen _____
Replace _____

12. Construction will start about:

AUG. 1983
Month Year

19. This notice filed by:

Owner _____
Lessee _____
Driller X

WELL/LAND LOCATION:

1. Township 1N
2. Range 3E
3. Section 17
4. SE 1/4 NW 1/4 SW 1/4
10 acre sub-division
5. County MAHARAJA
6. Owner of Well:
HOWARD, NUSOLET, TAMMOR & BURGONDORFF

Name _____
9200 WARD PARKWAY
Address _____
KANSAS CITY MISSOURI 64141
City State Zip

7. Owner of Land:
STATE OF ARIZONA
DEPARTMENT OF TRANSPORTATION
Name _____
206 S. 17th AVENUE
Address _____
PHX AZ 85007
City State Zip

DO NOT WRITE IN THIS SPACE
OFFICE RECORD
FILE NO A(13)17cbd
FILED 8-18-83 BY ETG
INPUT 8-31-83 BY _____
DUPLICATE MAILED 8-22-83 BY ETG
REGISTRATION NO 55-506149
AMA NON EXPANSION AREA Ph

WESTVAN TECHNOLOGIES, INC.
Name _____
3737 E. BROADWAY RD
Address _____
PHX ARIZONA 85036
City State Zip

20. Drillers Name:
WESTVAN TECHNOLOGIES, INC.
Name _____
3737 E. BROADWAY RD.
Address _____
PHX ARIZ 85036
City State Zip

263
Department License Number

- 1. Fill out this form in duplicate and mail to P.O. Box 2600, Phoenix, Arizona, 85002, or deliver to 99 East Virginia, Suite 100, Phoenix, Arizona 85004.
- 2. If the Exempt Well is in fact a replacement (or deepening) well, state the registration number of the existing well.
- 3. Construction standards for new and replacement wells and the deepening and abandonment of existing wells, shall be in accordance with Department Rules and Regulations.

I, KENNETH L. R. CHUR, state that the construction will be under the direct and personal supervision of the well driller designated on this form and that the designated driller holds a contractors license pursuant to ARS 45-595.

8/18/83
Date

[Signature]
Signature of Person Filing

MICROFILMED

RESOURCES
AUG 18 1983

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 Howard, Needles, Tammen, & Bergendoff/State of Arizona Dept. of Transportation
9200 Ward Parkway, Kansas City, MO 64114/206 S. 17th Ave., Phoenix, AZ 85007

2. Lessee or Operator _____
Name _____
Address _____

3. Driller Western Technologies, Inc.
Name _____
3737 E. Broadway Rd., Phoenix, AZ 85036
Address _____

4. Location of well: T 1 N R 3 E section 17 SE 1/4 NW 1/4 SW 1/4

5. Permit No. 55-506149
(if issued)

DESCRIPTION OF WELL

- 6. Total depth of hole 75 ft.
- 7. Type of Casing 2" PVC and 7" Steel surface casing
- 8. Diameter and length of casing 4 in. from 0' to 20', 2 in from 20' to 75'.
- 9. Method of sealing at reduction points steel casing grouted in place
- 10. Perforated from 40' to 75', from _____ to _____, from _____ to _____
- 11. Size of cuts 1/16 inch. slots Number of cuts per foot 12
- 12. If screen was installed: Length _____ ft. Diam _____ in. Type _____
- 13. Method of construction Drilled, air hammer w/casing
drilled, dug, driven, bored, jetted, etc.
- 14. Date started 8 22 83
Month day year
- 15. Date completed 9 11 83
Month day year
- 16. Depth to water 57.5 ft. (If flowing well, so state.)
- 17. Describe point from which depth measurements were made, and give sea-level elevation if available. Ground Surface, Elevation = 1075.89 ft.

18. If flowing well, state method of flow regulation N/A

19. REMARKS: _____

DO NOT WRITE IN THIS SPACE	
OFFICE RECORD	
Registration No. <u>55-506149</u>	
Received _____	By _____
Entered <u>9-28-83</u>	By _____
File No. <u>A(1-3)17cbd</u>	

(Well log to appear on Reverse side)

MICROFILMED

State of Arizona
DEPARTMENT OF WATER RESOURCES
99 E Virginia Avenue, Phoenix, Arizona 85004



August 30, 1983

BRUCE BABBITT, Governor
WESLEY E STEINER, Director

Kenneth L. Ricker, P. E.
Western Technologies, Inc.
P. O. Box 21387
Phoenix, Arizona 85036

Re: Notice of Intention to Drill Registration Nos. 55-506145,
55-506146, 55-506147, 55-506148, 55-506149, 55-150, 55-506151

Dear Mr. Ricker:

By this letter we are transmitting documents relating to the drilling of the referenced eight wells. These wells are being approved for drilling as exploration wells for monitoring purposes under the provisions of the Department's Draft Rule R12-15-802.

Authority is granted to drill and operate these eight wells under the following conditions as stated in your letter of August 25, 1983:

1. No pump equipment shall be installed in the wells and no pumping of groundwater is required or authorized.
2. Each well shall be abandoned when it is no longer needed for monitoring purposes (to observe the level of groundwater if encountered) by the Arizona Department of Transportation in accordance with the provisions of R12-15-816 and so reported to this Department.

Sincerely,


Richard A. Gessner
Chief, Operations Division

RAG:et
Enclosures

RECORDED

Think Conservation!

Office of Director 255 1554

Administration 255 1550, Water Resources and Flood Control Planning 255 1566, Dam Safety 255 1541,
Flood Warning Office 255 1548, Water Rights Administration 255-1581, Hydrology 255-1586.

State of Arizona

DEPARTMENT OF WATER RESOURCES

99 E. Virginia Avenue, Phoenix, Arizona 85004



August 22, 1983

BRUCE BABBITT, Governor
WESLEY E. STEINER, Director

HOWARD, NEEDLES, TAMMEN & BERGENDOFF
9200 WARD PARKWAY
KANSAS CITY MO 64141

FILE#A(1-3)10dcc A(1-3)10abc A(1-3)3dcd A(1-3)8dbc A(1-3)17cbd
A(1-3)17cad A(1-3)15cdd A(1-3)3dbd
REGISTRATION #55-506145 thru 55-506152

Dear Sir:

By this letter, we are transmitting to you an annotated copy of the Notice of Intention to Drill an Exempt Well along with associated forms for your records.

The purpose of this special letter is to advise you of the law relating to this type of exempt well which you intend to drill in the PHOENIX Active Management Area.

Because of the non-private residence, household, stockwatering nature of your proposed use, the well is limited to a total pumpage of 10 acre feet per annum. You may equip the well to pump a maximum of 35 gallons per minute or less, but are limited to a pumping schedule so as not to pump more than 10 acre feet total in a year. This change of law occurred on April 28, 1983, as reflected in Senate Bill 1392, ARS 45-454B.

Sincerely,


Richard A. Gessner
Chief, Operations Division

RAG: ek
Enclosure

RECORDED

Think Conservation!

Office of Director 255 1554

Administration 255 1550, Water Resources and Flood Control Planning 255 1566, Dam Safety 255 1541,
Flood Warning Office 255 1548, Water Rights Administration 255 1581, Hydrology 255 1586



**WESTERN
TECHNOLOGIES,
INC.**

3737 East Broadway Road
P O Box 21387
Phoenix, Arizona 85036
(602) 268-1381



Arizona Department of Water Resources
99 East Virginia, Suite 100
Phoenix, Arizona 85004

August 25, 1983

Attn: Ms. Marge Watson

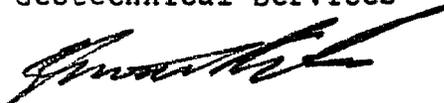
Re: Exempt Well Permits
Monitoring Wells
East and West Papago Drainage Tunnels
Phoenix, Arizona

Job No. 2183J028

At your request this letter presents our understanding of the purpose and anticipated life of the proposed monitoring wells. The monitoring wells will be used to observe the level of groundwater, if encountered, along the alignments of two proposed drainage tunnels prior to construction. Water samples will not be taken from the monitoring wells. The wells will be turned over to Howard, Needles, Tammen & Bergendoff and Arizona Department of Transportation upon completion of the installation. The wells will be monitoring during the construction of the freeway and drainage tunnels and will be maintained as permanent monitoring system.

If you have any questions, please contact the undersigned.

Respectfully submitted,
WESTERN TECHNOLOGIES, INC.
Geotechnical Services


Kenneth L. Ricker, P.E.

sa

Copies to: Addressee (3)

MICROFILMED

WESTERN TECHNOLOGIES INC
 3737 E BROADWAY
 PHOENIX AZ 85040

STATE OF ARIZONA
 DEPARTMENT OF WATER RESOURCES
 WATER RIGHTS ADMINISTRATION
 99 EAST VIRGINIA
 PHOENIX, ARIZONA 85004

RECEIPT

KIND ENTRY	FILE REFERENCE NO.
55	506145
	THRU
55	506152

HOWARD NEEDLES TAMMEN & BERGENDOFF

FUND SOURCE	ACCOUNT NO.			INT. ACCT.	ITEM DESCRIPTION	RATE	\$ AMOUNT
	AGENCY	CHAPTER	DIV.				
					FILING FEE FOR NOTICE OF INTENTION TO DRILL	10.00	80.00
					(8) EXEMPT WELLS		
					FILE#A(1-3) 10dcc Reg#55-506145		
					FILE#A(1-3) 10abc Reg#55-506146		
					FILE#A(1-3) 3dcd Reg#55-506147		
					FILE#A(1-3) 8dbc Reg#55-506148		
					FILE#A(1-3) 17cbd Reg#55-506149		
					FILE#A(1-3) 17cad Reg#55-506150		
					A(1-3) 15cdd Reg#55-506151		
					FILE#A(1-3) 3dbd Reg#55-506152		
						WAITER PAYMENT	
						GUESTS 8	
						CHK NO 300728	
						55-1 80.00	
						TAX 0.00	
						TOTL 80.00	
						GEN.CHEK 80.00	
						# 9097 A 15:32	

CHECK#300728
 8/22/83/ek

TOTAL \$ 80.00

ARIZONA DEPARTMENT OF WATER RESOURCES

15 South 15th Avenue
Phoenix, Arizona 85007

NOTICE OF ABANDONMENT

A.R.S. §45-594; R12-15-816(E): The owner or operator of the well shall notify the Department, in writing, no later than thirty days after the abandonment has been completed.

1. Well location:

Township 1N
Range 3E
Section 17
SE 1/4 NW 1/4 SW 1/4
(10 acre subdivision)
County Maricopa

2. Owner of the well:

Howard Needles
Tammen & Bergendoff
Name
9200 Ward Parkway
Address
Kansas City, MO 64141
City State Zip

3. Owner of the land:

Arizona Dept. of Transportation
Name
Phoenix, Arizona
Address
City State Zip

4. Well Description:

Depth of hole 75'
Diameter of hole 4"
Type of Casing Steel

5. 55-506149
Well Registration Number

ACJ-3717 CBD
File Number

6. Prior to abandonment, did the well penetrate any waterbearing layers?
Yes X No _____

7. Prior to abandonment, did the well have 20' of steel surface casing and 20' of grout in the annular space surrounding the surface casing?
Yes X No _____

8. If the answer to No. 7 is no, was the top 20' of casing removed prior to setting the cement plug? N/A
Yes _____ No _____

9. Was the well filled with cuttings or other non-toxic material prior to setting the cement plug?
Yes _____ No X

10. If the answer to No. 9 is yes, what material was used to fill the well?
Well completely excavated

11. How deep does the cement plug extend below land surface?
N/A

12. Was the well backfilled above the cement plug? N/A
Yes _____ No _____

13. Approx. 4/88
Date Abandonment Complete

I state that this Notice is filed in compliance with A.R.S. §45-594: R12-15-816(E), and is complete and correct to the best of my knowledge and belief.

12/10/90
DATE

[Signature]
SIGNATURE



HOWARD NEEDLES TAMMEN & BERGENDOFF
ARCHITECTS ENGINEERS PLANNERS

*Two Renaissance Square
 Suite 1100
 40 North Central
 Phoenix, Arizona 85004
 (602) 528-4300*

December 10, 1990

Mr. Richard A. Gessner
 ARIZONA DEPARTMENT OF WATER RESOURCES
 15 South 15th Avenue
 Phoenix, Arizona 85007

1990

RE: Notice of Abandonment
 AZ DWR Registration Nos.: 55-506145, 55-506146, 55-506147,
 55-506149 and 55-506152

Dear Mr. Gessner:

Enclosed are "Notice of Abandonment" Reports for the five water monitoring wells referenced above. All of these wells were abandoned during the course of various construction projects relative to the completion of the I-10 West Papago Inner Loop

The following is a brief description for each well. (Referenced I-10 project sheets are also attached)

DWR No. 55-506145 (HNTB No. ET-6):

Well was abandoned during construction of ADOT Project No. I-10-3(239); reference project sheet 390A of 1248 for approximate location. (Also, see sheet 15B of 65, Project I-10-3(188)). The well is located directly beneath the southbound airport off-ramp constructed during the I-10-3(239) contract. It was standard practice for the contractor to grout all wells encountered within construction locations from top to bottom as an abandonment procedure. It is assumed this method was used.

DWR No. 55-506146 (HNTB No. ET-7):

Well was abandoned during construction of ADOT Project No. I-10-3(238); reference sheet 8A of 45 for approximate location (Also, see sheet 15B of 65, Project I-10-3(188)). The well is located directly beneath the northbound off-ramp at the Jefferson Street intersection. It was standard practice for the contractor to grout all wells encountered within construction locations from top to bottom as an abandonment procedure. It is assumed this method was used.

DWR No. 55-506147 (HNTB No. ET-8):

Well was abandoned during construction of ADOT Project No. I-10-3(224), reference project sheet 35B of 55 for approximate location. (Also, see sheet 16B of 65, Project I-10-3(188)) Abandonment consisted of total excavation of the well (70'+) for construction of the Van Buren Street Dropshaft Structure and the I-10 East Tunnel System.

MICROFILMED

Partners: Charles T. Hennigan PE, Daniel J. Spidel PE, John L. Cotton PE, Francis J. Robert S. Coma PE, Donald A. Dupes PE, William Love FAIA, Robert D. Miller PE, James L. Tuttle Jr. PE, Hugh E. Schall PE, Cary C. Goodman AIA, Gordon H. Slarey Jr. PE, Harvey K. Hammond Jr. PE, Stephan G. Goddard PE, John W. Wight Jr. PE, Richard D. Beckman PE, Richard L. Fernan AIA, Douglas E. Prescott PE
Associates: Kendall T. Lincoln CPA, Roberts W. Smithem PE, Harry D. Bertossa PE, Ralph E. Robison PE, Stanley I. Mast PE, Walter Sharko PE, James O. Russell PE, Ross L. Jensen AIA, Frank T. Lamm PE, H. Jerome Butler PE, Blaise M. Carners PE, Michael P. Ingarda PE, Bernard L. Prince PE, Stephen B. Gunn PE, Saul A. Jacobs PE, Ewing H. Miller FAIA, Douglas C. Myhra PE, Carl J. Mello PE, Daniel F. Becker PE, Donald R. Keuth PE, Ronald L. Harjo PE, Thomas L. Williams AIA, Dennis E. Conklin PE, John E. Kupke PE, Rodney P. Falu PE, Steven M. Reiss AIA, Robert A. Leick PE, Glenn D. Sedulsky PE, Benjamin A. Whisler PE, Roger S. Austin PE, John D. Brothers PE, Charles L. O'Reilly Jr. PE, Robert M. Sloan PE, Douglas A. Boyd AIA, Raymond J. McCabe PE, Thomas A. Skinner PE, Paul A. Yarossi PE, F. Christopher Dimond ASLA AICP, Roland W. Franking AIA, James T. Kierle AIA, Terry K. Miller AIA, Roger C. Ward PE
Offices: Alexandria VA, Atlanta GA, Baton Rouge LA, Boston MA, Charleston WV, Chicago IL, Cleveland OH, Concord CA, Dallas TX, Denver CO, Fairfield NJ, Hartford CT, Houston TX, Indianapolis IN, Irvine CA, Kansas City MO, Louisville KY, Lexington MA, Los Angeles CA, Miami FL, Milwaukee WI, Minneapolis MN, New York NY, Orlando FL, Overland Park KS, Philadelphia PA, Phoenix AZ, Raleigh NC, Seattle WA, Tampa FL, Tulsa OK, Wilmington DE

Mr. Richard A. Gessner
December 10, 1990
Page 2

DWR No. 55-506149 (HNTB N. WT-4):

Well was abandoned during construction of ADOT Project No. I-10-3(223); reference project sheet 89 of 133 for approximate location. Abandonment consisted of total excavation of the well (80'+) for construction of the Maricopa Freeway Dropshaft Structure and the I-10 West Tunnel System.

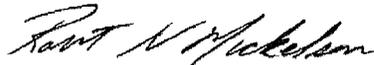
DWR No. 55-506152 (HNTB No. ET-9):

Well was abandoned during construction of ADOT Project No. I-10-3(188); reference project sheet 16B of 65. Abandonment consisted of total excavation (70'+) of the well during construction of the I-10 East Tunnel System.

Should you have any questions or if additional information is necessary, please contact us.

Very truly yours,

HOWARD NEEDLES TAMMEN & BERGENDOFF



Robert N. Mickelson

Attachments

DEC

cc: R. M. Wells - HNTB

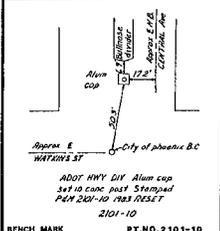
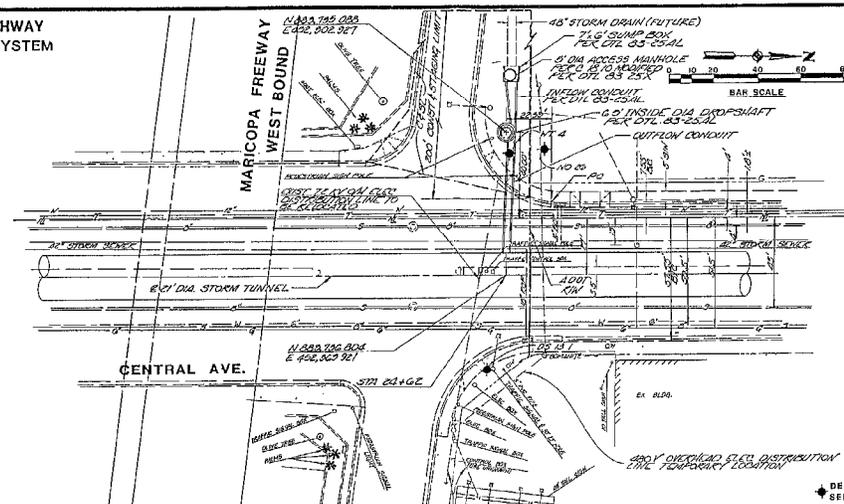
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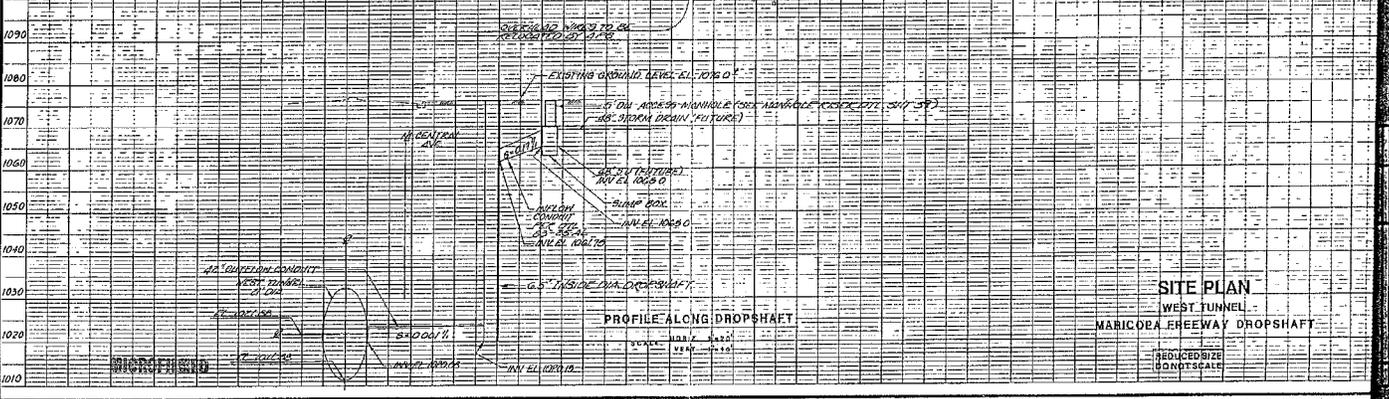
PHOENIX-CASA GRANDE HIGHWAY
WEST TUNNEL DRAINAGE SYSTEM
MARICOPA COUNTY



PRC REGION	STATE	PROJECT NO.	SHEET TOTAL
		1-10-102331	80 130
DATE	DESIGNER	DRAWN	CHECKED
1/27/87	J.S.	E.P.	K.C.
FOR THE CONSULTING ENGINEER			
PRC Engineering, Inc.			



BENCH MARK
SEE ADJACENT SHEET
ELEVATION = 1010.79
PT. NO. 2101-10



SITE PLAN
WEST TUNNEL
MARICOPA FREEWAY DROPSHAFT
REDUCED SIZE
CONDENSED