

Digitally signed  
by Harris, Dianne  
R(ZA8953)  
DN: cn=Harris,  
Dianne R  
(ZA8953)  
Reason: I  
converted this  
record  
Date: 2009.12.16  
16:32:35 -0700'

**Reference No. PV-406**

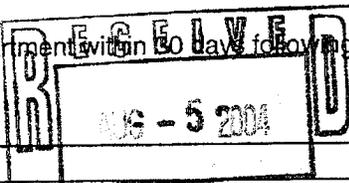
**55-900619 - Range Well - 2004**



Arizona Department of Water Resources  
 Records Management Section  
 500 N. 3rd Street ❖ Phoenix, Arizona 85004  
 (602) 417-2405 ❖ (800) 352-8488  
 www.water.az.gov

# Pump Installation Completion Report

- ❖ *Review instructions prior to completing form.*
- ❖ *The registered well owner should file this report with the Department within 60 days following installation of pump equipment.*



FILE NUMBER  
 C(1-6)10 BDA  
 WELL REGISTRATION NUMBER  
 55 - 900619

\*\* PLEASE PRINT CLEARLY \*\*

## SECTION 1. REGISTRY INFORMATION

### Well Owner

FULL NAME OF COMPANY, ORGANIZATION, OR INDIVIDUAL  
 APS

MAILING ADDRESS  
 5801 S WINTERSBURG ROAD

CITY / STATE / ZIP CODE  
 TONOPAH, AZ, ~~85354-7529~~ 85354-7529

CONTACT PERSON NAME AND TITLE  
 Dan Blackson / Env Section

TELEPHONE NUMBER FAX  
 623-393-6567 623-393-5442

### Location of Well Management

WELL LOCATION ADDRESS (IF ANY)

Palo Verde Nuclear Plant

TOWNSHIP (N/S)	RANGE (E/W)	SECTION	160 ACRE	40 ACRE	10 ACRE
1S	6W	10	NW ¼	SE ¼	NE ¼

COUNTY ASSESSOR'S PARCEL ID NUMBER (MOST RECENT)  
 BOOK 401 MAP 43 PARCEL 038a

COUNTY WHERE WELL IS LOCATED  
 Maricopa

## SECTION 2. EQUIPMENT INSTALLED

DATE PUMP INSTALLED  
 7-26-2004

### Pump Type

- CHECK ONE
- |                                      |  |
|--------------------------------------|--|
| <input type="checkbox"/> Air Lift    | <input type="checkbox"/> Rotary                  |
| <input type="checkbox"/> Bucket      | <input checked="" type="checkbox"/> Submersible  |
| <input type="checkbox"/> Centrifugal | <input type="checkbox"/> Turbine                 |
| <input type="checkbox"/> Jet         | <input type="checkbox"/> Other (please specify): |
| <input type="checkbox"/> Piston      |  |

RATED PUMP CAPACITY  
 10 Gallons Per Minute

### Power Type

- CHECK ONE
- |  |  |
|--|--|
| <input type="checkbox"/> Diesel Engine             | <input type="checkbox"/> Windmill                |
| <input checked="" type="checkbox"/> Electric Motor | <input type="checkbox"/> Other (please specify): |
| <input type="checkbox"/> Gasoline Engine           |  |
| <input type="checkbox"/> Hand                      |  |
| <input type="checkbox"/> Natural Gas               |  |

HORSE POWER RATING OF MOTOR

## SECTION 3. WELL TEST

### Pump Test Data

DATE WELL TESTED  
 7-26-2004

STATIC WATER LEVEL (A)  
 195 Feet Below Land Surface

PUMPING WATER LEVEL (B)  
 300 Feet Below Land Surface

DRAWDOWN [ (B) - (A) ]  
 105 Feet Below Land Surface

TEST PUMPING RATE  
 7 Gallons Per Minute

DURATION OF PUMP TEST (Minimum 4 Hours)  
 4 Hours

TOTAL PUMPING LIFT  
 300 Feet

### Method of Discharge Measurement

- CHECK ONE
- Bailer
  - Bucket - Barrel - Stopwatch
  - Current
  - Estimated - Air Lift
  - Gauge
  - Meter
  - Orifice
  - Volume
  - Weir - Flume
  - Other (please specify):

### Method of Measuring Water Level

- CHECK ONE
- Air Line
  - Electric Measuring Line (Sounder)
  - Steel Tape
  - Other (please specify):

ENTERED AUG = 4-29-04

FOR FLOWING WELL, MEASURED SHUT IN HEAD  
 FT  
 PSI

I HEREBY CERTIFY that the above statements are true to the best of my knowledge and belief according to A.R.S. § 45-600(B).

SIGNATURE OF WELL OWNER  
 Sari R. Roth

DATE  
 8-3-2004



*A subsidiary of Pinnacle West Capital Corporation*

Daniel E. Blackson  
Section Leader  
Environmental  
Palo Verde Nuclear  
Generating Station

Tel. 623-393-6567  
Fax. 623-393-5442

Mail Station 7626  
PO Box 52034  
Phoenix, AZ 85072-2034

291-03130-DEB/SRR  
August 3, 2004

**CERTIFIED MAIL**  
**RETURN RECEIPT REQUESTED**

Arizona Department of Water Resources  
Records Management Section  
500 N. 3rd Street  
Phoenix, AZ 85004-3921

Dear Sirs:

**Subject: PVNGS Well Number 55-900619  
Pump Installation Completion Report for PVNGS Firing Range Well**

Arizona Public Service Company is hereby submitting a "Pump Installation Completion Report" for Palo Verde domestic water well number 55-900619. Per the attached report, a pump was installed in the domestic water well on July 26, 2004.

If you have any questions or require additional information, please contact Ms. Sarianne Rittenhouse at (623) 393-5192 or myself at (623) 393-6567.

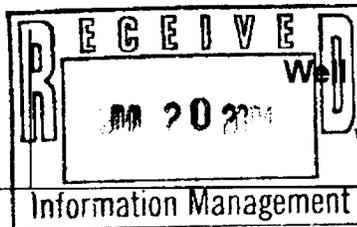
Sincerely,

DEB/SRR/hsc

Attachment



Arizona Department of Water Resources  
 Records Management Section  
 500 N. 3rd Street ♦ Phoenix, Arizona 85004  
 (602) 417-2405 ♦ (800) 352-8488  
 www.water.az.gov



Well Driller Report  
 and  
 Well Log

- ❖ Review instructions prior to completing form
- ❖ This report should be prepared by the driller in detail and filed with the Department within 30 days following completion of the well.

\*\* PLEASE PRINT CLEARLY \*\*

FILE NUMBER <b>C(1-6)10 BDA</b>
WELL REGISTRATION NUMBER <b>55 - 900619</b>
PERMIT NUMBER (IF ISSUED)

**SECTION 1. REGISTRY INFORMATION**

<b>Well Owner</b>		<b>Location of Well</b>					
FULL NAME OF COMPANY, ORGANIZATION, OR INDIVIDUAL APS		WELL LOCATION ADDRESS (IF ANY) <b>5801 S Wintersburg Road</b>					
MAILING ADDRESS 5801 S WINTERSBURG ROAD		TOWNSHIP (N/S) <b>1S</b>	RANGE (E/W) <b>6W</b>	SECTION <b>10</b>	160 ACRE <b>NW ¼</b>	40 ACRE <b>SE ¼</b>	10 ACRE <b>NE ¼</b>
CITY / STATE / ZIP CODE TONOPAHA, AZ, 85254-7529		LATITUDE		"N"	LONGITUDE		"W"
CONTACT PERSON NAME AND TITLE		LAND SURFACE ELEVATION AT WELL Feet Above Sea Level					
TELEPHONE NUMBER 623 393-6760	FAX	METHOD OF LATITUDE / LONGITUDE (CHECK ONE) <input type="checkbox"/> Hand-Held <input type="checkbox"/> USGS Quad Map <input type="checkbox"/> Conventional Survey <input type="checkbox"/> GPS <input type="checkbox"/> Survey-Grade					
		COUNTY ASSESSOR'S PARCEL ID NUMBER BOOK 401		MAP 43	PARCEL 038a		
		COUNTY WHERE WELL IS LOCATED					

**SECTION 2. DRILLING AUTHORIZATION**

<b>Drilling Firm</b>	
NAME BOART LONGYEAR COMPANY	
DWR LICENSE NUMBER 83	
TELEPHONE NUMBER 623-486-1881	FAX

ANSWERED JUL 20 2004

**SECTION 3. WELL CONSTRUCTION DETAILS**

DATE WELL CONSTRUCTION STARTED <b>7-12-04</b>	DATE WELL CONSTRUCTION COMPLETED <b>7-14-04</b>	IF FLOWING WELL, METHOD OF FLOW REGULATION <input type="checkbox"/> Valve <input type="checkbox"/> Other:
<b>Drill Method</b> CHECK ONE <input type="checkbox"/> Air Rotary <input type="checkbox"/> Bored or Augered <input type="checkbox"/> Cable Tool <input type="checkbox"/> Dual Rotary <input checked="" type="checkbox"/> Mud Rotary <input type="checkbox"/> Reverse Circulation <input type="checkbox"/> Driven <input type="checkbox"/> Jetted <input type="checkbox"/> Air Percussion / Odex Tubing <input type="checkbox"/> Other (please specify):	<b>Method of Well Development</b> CHECK ONE <input type="checkbox"/> Airlift <input type="checkbox"/> Bail <input type="checkbox"/> Surge Block <input checked="" type="checkbox"/> Surge Pump <input type="checkbox"/> Other (please specify):	<b>Method of Sealing at Reduction Points</b> CHECK ONE <input type="checkbox"/> None <input type="checkbox"/> Packed <input type="checkbox"/> Swedged <input type="checkbox"/> Welded <input type="checkbox"/> Other (please specify):
<b>Water Level Information</b> STATIC WATER LEVEL <b>Not Measured</b> Below Land Surface DATE MEASURED		

Well Driller Report and Well Log

WELL REGISTRATION NUMBER  
55 - 900619

SECTION 4. WELL CONSTRUCTION DESIGN (AS BUILT) (attach additional page if needed)

Borehole			Installed Casing													
DEPTH FROM SURFACE		BOREHOLE DIAMETER (inches)	DEPTH FROM SURFACE		OUTER DIAMETER (inches)	MATERIAL TYPE ( T )				PERFORATION TYPE ( T )						SLOT SIZE IF ANY (inches)
FROM (feet)	TO (feet)		FROM (feet)	TO (feet)		STEEL	PVC	ABS	IF OTHER TYPE, DESCRIBE	BLANK OR NONE	WIRE WRAP	SHUTTER SCREEN	MILLS KNIFE	SLOTTED	IF OTHER TYPE, DESCRIBE	
0	180	12 1/4	0	180	8	X				X						
180	280	8	180	280	4		X			X						
			280	330	4								X			.20
			330	340	4					X						

Installed Annular Material												
DEPTH FROM SURFACE		ANNULAR MATERIAL TYPE ( T )								FILTER PACK		
FROM (feet)	TO (feet)	NONE	CONCRETE	NEAT CEMENT OR CEMENT GROUT	CEMENT-BENTONITE GROUT	BENTONITE			IF OTHER TYPE OF ANNULAR MATERIAL, DESCRIBE	SAND	GRAVEL	SIZE
						GROUT	CHIPS	PELLETS				
0	180			X								
180	280			X								
280	285					X						
285	340									X		8/12

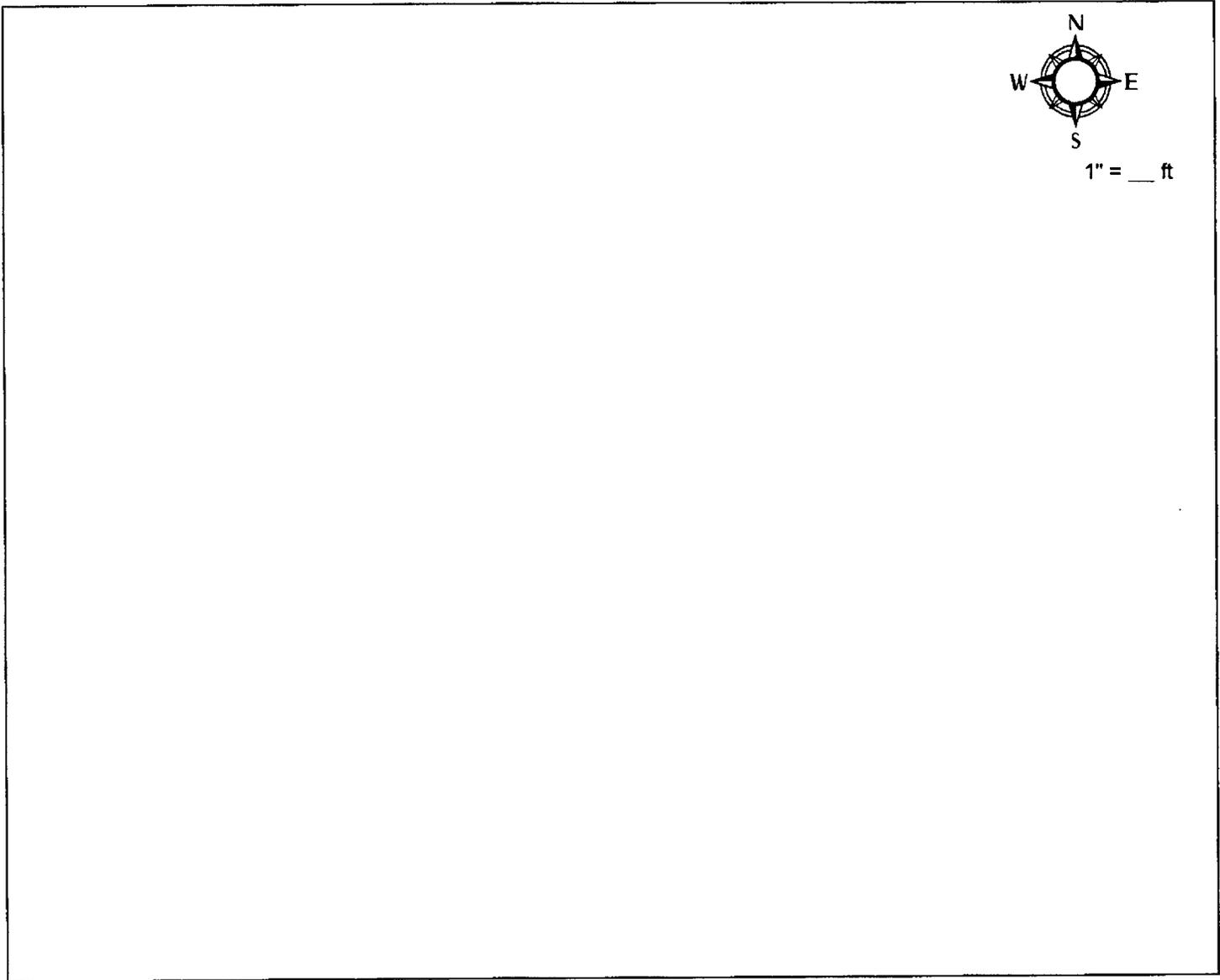
DEPTH OF BORING 340 Feet Below Land Surface	DEPTH OF COMPLETED WELL 340 Feet Below Land Surface
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**SECTION 6. WELL SITE PLAN**

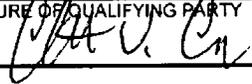
NAME OF WELL OWNER APS	COUNTY ASSESSOR'S PARCEL ID NUMBER BOOK 401	MAP 43	PARCEL 038a
---------------------------	---	-----------	----------------

- ❖ Please draw the following: (1) the boundaries of property on which the well was located; (2) the well location; (3) the locations of all septic tank systems and sewer systems on the property or within 100 feet of the well location, even if on neighboring properties; and (4) any permanent structures on the property that may aid in locating the well.
- ❖ Please indicate the distance between the well location and any septic tank system or sewer system.



  
1" = \_\_\_ ft

I state that this notice is filed in compliance with A.R.S. § 45-596 and is complete and correct to the best of my knowledge and belief.

DRILLING FIRM BOART LONGYEAR COMPANY	SIGNATURE OF QUALIFYING PARTY 	DATE 7-16-04
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ARIZONA DEPARTMENT OF WATER RESOURCES  
500 N. Third Street • Phoenix, Arizona 85004-3921  
Telephone (602) 417-2400 • Fax (602) 417-2401

Friday, July 09, 2004



JANET NAPOLITANO  
Governor

HERB GUENTHER  
Director

APS  
5801 S WINTERSBURG ROAD  
TONOPAH, AZ, 85254-7529

Registration No. 55-900619

File No. C(1-6)10 BDA

Dear Applicant:

Enclosed is a copy of the Notice of Intent to Drill, Deepen, Replace or Modify a Well ("NOI") which you recently filed with this Department pursuant to A.R.S. § 45-596. This is to inform you that the Department has approved the NOI and has mailed (or otherwise provided) a drilling card authorizing the drilling of the well to the well driller identified in the NOI. The driller may not begin drilling until he has received the drilling card which he must keep in his possession at the well site during drilling.

Well drilling activities must be completed within one year after the date the NOI was filed with the Department. If drilling is not completed within one year, you must file a new NOI before proceeding with further drilling. If in the course of drilling the well, it is determined that the well cannot be successfully completed as initially intended (dry hole, cave in, lost tools, etc.), the well must be properly abandoned and a Well Abandonment Completion Report filed as required by A.A.C. R12-15-816(F).

If you change drillers, you must notify the Department of the new driller's identity. Please ensure that the new driller is licensed by the Department to drill the type of well you require. A new driller may not begin drilling until he receives a new drilling card from the Department. If you are drilling a new or replacement well and it is necessary to change the location of the well, you may not proceed with drilling until you file a new NOI with the Department and the Department issues an amended drilling card to the driller. If county approval was required for the original well site plan (this applies to domestic wells on parcels that are five acres or less), you must submit a new well site plan with the new well location to your local county health authority for approval prior to filing the new NOI with the Department.

A.R.S. § 45-600 requires the registered well owner to complete and file a Pump Installation Completion Report form (DWR form 55-56) within 30 days after the installation of pumping equipment. A form is enclosed for your use. Also enclosed is a well owner's guide that provides useful information and advice concerning your upcoming well construction project. A.R.S. § 45-600 also requires the driller to file a complete and accurate Well Drillers Report and Well Log (DWR form 55-55) within 30 days after completion of drilling. That form was mailed to your driller with the drilling card. You should insist and ensure that all of the required forms are accurately completed and timely filed with the Department.

Please be advised that A.R.S. § 45-593(C) requires the person to whom a well is registered to notify the Department of a change in ownership of the well and/or information pertaining to the physical characteristics of the well in order to keep this well registration file current and accurate.

Any change in well information or a request to change well driller must be filed on a Request to Change Well Information form (DWR form 55-71A) that may be downloaded from the ADWR Internet website at <http://www.water.az.gov/adwr/content/forms/default.htm#NOI>.

**ARIZONA DEPARTMENT OF WATER RESOURCES**

500 North Third Street  
Phoenix, Arizona 85004

**DRILLING CARD**

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

WELL REGISTRATION NO: **55-900619**

AUTHORIZED DRILLER: **BOART LONGYEAR COMPANY** LICENSE NO: **83**

NOTICE OF INTENT TO **DRILL AN EXEMPT WELL** HAS BEEN FILED WITH THE DEPARTMENT BY:

WELL OWNER: **APS**

ADDRESS: **5801 S WINTERSBURG ROAD, TONOPAH, AZ, 85254-7529**

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

**NE 1/4 of the SE 1/4 of the NW 1/4 Section 10 Township 1 S Range 6 W**

No. of wells in this project: **1**

THIS AUTHORIZATION EXPIRES AT MIDNIGHT ON **7/8/2005**.

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



This drilling or abandonment authority was granted based upon the certifications made by the above-named driller in the notice of intent to drill or abandon. Those certifications, along with any variances granted, are listed below. By drilling or abandoning the well pursuant to this authorization, the above-named driller acknowledges the accuracy of the driller certifications. If the certifications are in error, this authorization is invalid and driller must contact the Department of Water Resource's NOI Section in writing at the address above to correct.

Variance(s) Granted To Driller: **None**

Certification(s) Made By Driller:

- By checking this box, I certify that I have all necessary Registrar of Contractor (ROC) licenses in all necessary license categories for this drilling or abandonment project and that those licenses are current.
- By checking this box, I certify that the proposed well meets the criteria of an exempt well as outlined in A.R.S. §45-454.
- By checking this box, I certify that I have obtained written certification from the land owner stating that the proposed well site is not within 100 feet of any septic tank system, sewage disposal area, landfill, hazardous waste facility, storage area of hazardous materials or petroleum storage areas and tanks. A copy of the land owner's written certification shall be submitted to ADWR with the Well Driller Report and Well Log or the Well Abandonment Completion Report within 30 days of completion of drilling or abandonment.
- By checking this box, I certify that I have been authorized by the above-named well owner to submit this Notice of Intent on the well owner's behalf.
- By checking this box, I certify that the information above is complete and correct, and that the well shall be drilled or abandoned in compliance with all pertinent statutes and rules, including any special standards that may be required to protect the aquifer or other water sources.

ARIZONA DEPARTMENT OF WATER RESOURCES  
Electronic Filing - NOI Report  
500 North Third Street  
Phoenix, Arizona 85004

NOI Type: Notice of Intent to Drill, Deepen, Replace or Modify a Well  
Well Type: EXEMPT  
Date Received at ADWR Website: 7/9/2004 8:38:14 AM

Fee Paid: \$150.00

Order Number: 1087

Well Registration Number: 55-900619  
Number of Wells/Holes: 1

Drilling Authority Expires On: 7/8/2005

Driller's ADWR License Number: 83  
Authorized Driller: BOART LONGYEAR COMPANY  
ROC License Number Entered By Driller: 073446  
Qualifying Party License Categories: a-04

Well Owner Name: APS  
Well Owner Address: 5801 S WINTERSBURG ROAD  
Well Owner City, State - Zip: TONOPAH, AZ - 85254-7529  
Well Owner Phone: 623 393-6760

Book: 401 Map: 43 Parcel: 038a

Is the Land Owner the same as the Well Owner?: Yes

Well Location: **NE** 1/4 of the **SE** 1/4 of the **NW** 1/4 Section **10** Township **1 S** Range **6 W**

AMA: PHOENIX AMA  
County: MARICOPA  
Contamination Site: NOT IN ANY WQARF SITE

Design Pumping Capacity: <= 35 GPM

Primary Water Use: INDUSTRIAL  
Secondary Water Use(s): N/A

Is this application for an exempt well which will be used to serve the same non-irrigation use at the same location as (i.e., same parcel) as another exempt well?: No

Is the proposed water use for domestic purposes on <= 5 acres?: Unknown

Variance(s) Granted To Driller: **None**

Certification(s) Made By Driller:

- By checking this box, I certify that I have all necessary Registrar of Contractor (ROC) licenses in all necessary license categories for this drilling or abandonment project and that those licenses are current.
- By checking this box, I certify that the proposed well meets the criteria of an exempt well as outlined in A.R.S. §45-454.
- By checking this box, I certify that I have obtained written certification from the land owner stating that the proposed well site is not within 100 feet of any septic tank system, sewage disposal area, landfill, hazardous waste facility, storage area of hazardous materials or petroleum storage areas and tanks. A copy of the land owner's written certification shall be submitted to ADWR with the Well Driller Report and Well Log or the Well Abandonment Completion Report within 30 days of completion of drilling or abandonment.
- By checking this box, I certify that I have been authorized by the above-named well owner to submit this Notice of Intent on the well owner's behalf.

By checking this box, I certify that the information above is complete and correct, and that the well shall be drilled or abandoned in compliance with all pertinent statutes and rules, including any special standards that may be required to protect the aquifer or other water sources.

**From:** "Clay Cady" <ccady@boartlongyear.com>  
**To:** "Arizona Department of Water Resources" <wrnoi@adwr.state.az.us>  
**Date:** Fri, Jul 9, 2004 8:39 AM  
**Subject:** BOART LONGYEAR COMPANY Order# NOI-1087

\*\*\*\*\*  
 \* Confirmation for Order NOI-1087  
 \*\*\*\*\*

-----  
 | Order ID: NOI-1087  
 | Date: Jul 09, 2004  
 | Status: Authorized  
 |

-----  
 | Arizona Department of Water Resources  
 | 500 North Third Street.  
 | Phoenix, AZ 85004 United States  
 | Phone: 602.417.2470 Fax: 602.417.2422  
 | Email: wrnoi@adwr.state.az.us  
 | Web: <http://www.water.az.gov/NOI/Default.asp>  
 |

-----  
 | Bill To: BOART LONGYEAR COMPANY  
 | Clay Cady  
 | 7773 WEST SELDON LANE  
 | PEORIA, AZ 85345-7980 United States  
 | Phone: 623-486-1881 Fax: 623-486-1885  
 | Email: ccady@boartlongyear.com  
 |

-----  
 | 000600 - All Except Domestic Outside AMA/INA  
 | qty. 1 - price ea. \$150.00 - amount \$150.00  
 |

Subtotal:	\$150.00
Tax Total:	\$0.00
Shipping:	\$0.00
Handling:	\$0.00
-----	
Total:	\$150.00

\*\*\*\*\*  
 \* Additional Information  
 \*\*\*\*\*



Order ID: NOI-1087

Order Date: 7/9/2004 8:41:06 AM

**Arizona Department of Water Resources**

500 North Third Street.  
 Phoenix, AZ 85004 US  
 Phone: 602.417.2470  
 Fax: 602.417.2422  
 Email: wrnoi@adwr.state.az.us

**Bill To:**  
 Clay Cady  
 BOART LONGYEAR COMPANY  
 7773 WEST SELDON LANE  
 PEORIA, AZ 85345-7980 US  
 Phone: 623-486-1881  
 Fax: 623-486-1885  
[ccady@boartlongyear.com](mailto:ccady@boartlongyear.com)

**Ship To:**  
 Clay Cady  
 BOART LONGYEAR COMPANY  
 7773 WEST SELDON LANE  
 PEORIA, AZ 85345-7980 US  
 Phone: 623-486-1881

**Additional Info.**  
 : 900619

<b>Status:</b>	<b>Success</b>		
<b>Authorization Code:</b>	<b>043984</b>		
<b>Error Code:</b>	<b>000: 000 - Authorization approved.</b>		
<b>AVS Code:</b>	<b>Y: Y - 5 digit Zip and Address both match.</b>		
VISA		06/2006	

Qty.	SKU	Description	Price Each	Total Price
1	000600	All Except Domestic Outside AMA/INA	\$150.00	\$150.00
			Sub Total	\$150.00
			<b>Adjusted Sub Total</b>	<b>\$150.00</b>
			<b>Tax Total</b>	<b>\$0.00</b>
			No Shipping Required (0 weight units)	\$0.00
			<b>Grand Total</b>	<b>\$150.00</b>