8/26/15

**Arizona Department of Water Resources**
Information Management Unit
PO Box 36020 • Phoenix, Arizona 85067-36020
(602) 771-8527 • 602-771-8500

# Well Driller Report and Well Log

| FILE NUMBER |
|---|
| B(1-1) 16 AAB |
| WELL REGISTRATION NUMBER |
| 55 - 9183 24 |
| PERMIT NUMBER (IF ISSUED) |

THIS REPORT MUST BE FILED WITHIN **30 DAYS** OF COMPLETING THE WELL.

PLEASE PRINT CLEARLY USING BLACK OR BLUE INK

RECEIVED
AUG 21 2015
ARIZONA DEPARTMENT OF WATER RESOURCES

## SECTION 1. DRILLING AUTHORIZATION

**Drilling Firm**

| Mail To: | | |
|---|---|---|
| NAME: CASCADE DRILLING, LP | DWR LICENSE NUMBER: 226 | |
| ADDRESS: 7773 W. SELDON LANE. | TELEPHONE NUMBER: 623-935-0124 | |
| CITY / STATE / ZIP: PEORIA, AZ, 85345-7973 | FAX: 623-455-8837 | |

## SECTION 1. REGISTRY INFORMATION

**Well Owner**

FULL NAME OF COMPANY, ORGANIZATION, OR INDIVIDUAL: THE GOODYEAR TIRE & RUBBER COMPANY

MAILING ADDRESS: 200 INNOVATION WAY - JEFF SUSSMAN

CITY / STATE / ZIP: AKRON, OH, 44316

CONTACT PERSON NAME AND TITLE: Jeff Sussman - Global Remediation Mgr

TELEPHONE NUMBER: 330 796-0578 FAX: 330-796-6459

WELL NAME (e.g., MW-1, PZ-3, lot 25 Well, Smith Well, etc.): GMW - 30C

**Location of Well**

WELL LOCATION ADDRESS (IF ANY): 14001 W Yuma Rd Goodyear AZ

| TOWNSHIP (N/S) | RANGE (E/W) | SECTION | 160 ACRE | 40 ACRE | 10 ACRE |
|---|---|---|---|---|---|
| 1N | 1W | 16 | NE 1/4 | NE 1/4 | NW 1/4 |

| LATITUDE | | | LONGITUDE | | |
|---|---|---|---|---|---|
| ° | ' | "N | ° | ' | "W |

METHOD OF LATITUDE/LONGITUDE (CHECK ONE): ☐ USGS Quad Map ☐ Conventional Survey ☐ *GPS: Hand-Held ☐ *GPS: Survey-Grade

LAND SURFACE ELEVATION AT WELL: Feet Above Sea Level

METHOD OF ELEVATION (CHECK ONE): ☐ USGS Quad Map ☐ Conventional Survey ☐ *GPS: Hand-Held ☐ *GPS: Survey-Grade

*IF GPS WAS USED, GEOGRAPHIC COORDINATE DATUM (CHECK ONE): ☐ NAD-83 ☐ Other (please specify)

COUNTY: Maricopa

ASSESSOR'S PARCEL ID NUMBER (MOST RECENT): BOOK 500 MAP 7 PARCEL 003J

## SECTION 3. WELL CONSTRUCTION DETAILS

**Drilling Method**

CHECK ONE
- ☐ Air Rotary
- ☐ Bored or Augered
- ☐ Cable Tool
- ☐ Dual Rotary
- ☐ Mud Rotary
- ☐ Reverse Circulation
- ☐ Driven
- ☐ Jetted
- ☐ Air Percussion / Odex Tubing
- ☒ Other (please specify) Roto Sonic

**Method of Well Development**

CHECK ONE
- ☐ Airlift
- ☒ Bail
- ☒ Surge Block
- ☒ Surge Pump
- ☐ Other (please specify)

**Condition of Well**

CHECK ONE
- ☒ Capped
- ☐ Pump Installed

**Method of Sealing at Reduction Points**

CHECK ONE
- ☒ None
- ☐ Packed
- ☐ Swedged
- ☐ Welded
- ☐ Other (please specify)

**Construction Dates**

DATE WELL CONSTRUCTION STARTED: 7-13-15

DATE WELL CONSTRUCTION COMPLETED: 7-15-15

*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.*

| SIGNATURE OF QUALIFYING PARTY | DATE |
|---|---|
| [signature] | 8-20-15 |

**Well Driller Report and Well Log**

WELL REGISTRATION NUMBER: 55-948324

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

### Depth

| DEPTH OF BORING | DEPTH OF COMPLETED WELL |
|---|---|
| 200' Feet Below Land Surface | 166' Feet Below Land Surface |

### Water Level Information

| STATIC WATER LEVEL | DATE MEASURED | TIME MEASURED | IF FLOWING WELL, METHOD OF FLOW REGULATION |
|---|---|---|---|
| 75 Feet Below Land Surface | 7-16-15 | | ☐ Valve ☐ Other: |

### Borehole

| DEPTH FROM SURFACE FROM (feet) | DEPTH FROM SURFACE TO (feet) | BOREHOLE DIAMETER (inches) |
|---|---|---|
| 0 | 140 | 9" |
| 140' | 200' | 8" |

### Installed Casing

| DEPTH FROM SURFACE FROM (feet) | DEPTH FROM SURFACE TO (feet) | OUTER (inches) | MATERIAL TYPE (T) STEEL | PVC | ABS | IF OTHER TYPE, DESCRIBE | PERFORATION TYPE (T) BLANK OR NONE | WIRE WRAP | SHUTTER SCREEN | MILLS KNIFE | SLOTTED | IF OTHER TYPE, DESCRIBE | SLOT SIZE (inches) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 151' | 4" | | X | | | X | | | | | | |
| 151 | 166 | 4" | | X | | | | | | | X | | .020 |

### Installed Annular Material

| DEPTH FROM SURFACE FROM (feet) | DEPTH FROM SURFACE TO (feet) | ANNULAR MATERIAL TYPE (T) NONE | CONCRETE | NEAT CEMENT OR CEMENT GROUT | CEMENT-BENTONITE GROUT | BENTONITE GROUT | BENTONITE CHIPS | BENTONITE PELLETS | IF OTHER TYPE OF ANNULAR MATERIAL, DESCRIBE | FILTER PACK SAND | FILTER PACK GRAVEL | FILTER PACK SIZE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 2 | | X | | | | | | | | | |
| 2 | 20 | | | | X | | | | | | | |
| 20 | 141 | | | | | X | | | | | | |
| 141 | 148 | | | | | | X | | | | | |
| 148 | 168 | | | | | | | | | X | | 8-12 |
| 168 | 200 | | | | | | X | | | | | |

**Well Driller Report and Well Log**

WELL REGISTRATION NUMBER
**55 - 918324**

**SECTION 5. GEOLOGIC LOG OF WELL**

| DEPTH FROM SURFACE FROM (feet) | DEPTH FROM SURFACE TO (feet) | **Description** Describe material, grain size, color, etc. | Check (T) every interval where water was encountered (if known) |
|---|---|---|---|
| 0 | 12 | Sandy silt | |
| 12 | 65 | Sand with gravel & Cobbles. | |
| 65 | 170 | Clayey sands with gravel & Cobbles. | T |
| 170 | 200 | Clay with sand lenses. | T |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

**David G. Christiana**

**From:** Lowell M. Carty <Carty.Lowell@azdeq.gov>
**Sent:** Friday, September 11, 2015 1:55 PM
**To:** David G. Christiana
**Subject:** FW: PGA South New wells that need ADEQ numbers
**Attachments:** Batch5613_PGA South_wells_New wells 08-25-15_Rev 1.xlsx

Dave,

Here is the final from James Moore. Let me know of any issues or questions.

Thanks,
Lowell Carty
Arizona Department of Environmental Quality
1110 W. Washington Street, Mail Code 4415B-1
Phoenix, AZ 85007
Carty.Lowell@azdeq.gov
602 771 4413

---

**From:** Moore, James [mailto:jmoore@LATA.com]
**Sent:** Friday, September 11, 2015 8:36 AM
**To:** Lowell M. Carty
**Cc:** Tackett, Cory; Brian J. Stonebrink
**Subject:** RE: PGA South New wells that need ADEQ numbers

Lowell

I apologize that I am just getting back to this. Attached is the revised submittal for the new wells. The ADWR#s have been updated based on previous information provided by Haley & Aldrich. Please note that I have not updated the depths based on your findings. The copy of the well construction diagrams that LATA was given match the information in the attached table for depths. If we receive revised well construction diagrams that in any way alter the depths provided, I will issue a revised well information table for the well at that time. Also, please note that I assumed that the ADEQ#s assigned in your original email would stay as is. If this is not the case, please let me know.

Once the information is loaded, please let me know.

Thank you
James

James Moore
Los Alamos Technical Associates, Inc.
756 Park Meadow Road
Westerville, Ohio 43081
614.508.1232 (direct)
jmoore@lata.com

Please consider the environment before printing this email

---

**From:** Lowell M. Carty [mailto:Carty.Lowell@azdeq.gov]
**Sent:** Wednesday, September 02, 2015 7:33 PM
**To:** Moore, James
**Cc:** Tackett, Cory; Brian J. Stonebrink; David G. Christiana
**Subject:** RE: PGA South New wells that need ADEQ numbers

James,

You can submit the revised table now.

Let me know if anything else is needed.

Thanks,
Lowell Carty
Arizona Department of Environmental Quality
1110 W. Washington Street, Mail Code 4415B-1
Phoenix, AZ 85007
Carty.Lowell@azdeq.gov
602 771 4413

---

**From:** Moore, James [mailto:jmoore@LATA.com]
**Sent:** Wednesday, September 02, 2015 12:02 PM
**To:** Lowell M. Carty
**Cc:** Tackett, Cory; Brian J. Stonebrink; David G. Christiana
**Subject:** RE: PGA South New wells that need ADEQ numbers

Lowell

The error in the paperwork has been identified and Haley & Aldrich should be addressing the changes that need made with ADWR directly. What we have been told is the NOI for GMW-29A was used to drill the borehole for GMW-32. GMW-32 is located ~658 feet from the center of Litchfield Road making it AAA, however the section line is east of Litchfield Road making GMW-32 in AAB. The corrected information will be:

| | | | |
|---|---|---|---|
| GMW-29C | 33°26'5.79" N, 112°21'35.91" W | 55-918269 | B(1-1)16aaa |
| GMW-30C | 33°26'0.92" N, 112°21'39.52" W | 55-918324 | B(1-1)16aab |
| GMW-31A | 33°26'3.03" N, 112°21'42.04" W | 55-918271 | B(1-1)16aab |
| GMW-32 | 33°26'4.63" N, 112°21'37.56" W | 55-918270 | B(1-1)16aab |
| GMW-33A | 33°26'0.87" N, 112°21'41.58" W | 55-918403 | B(1-1)16aab |

Should I wait until Haley & Aldrich has addressed this change with ADWR before resubmitting a revised table, or can I submit the revised table so that ADEQ numbers can be assigned?

Thanks
James

**James Moore**
Los Alamos Technical Associates, Inc.
**756 Park Meadow Road**
**Westerville, Ohio 43081**
614.508.1232 (direct)
jmoore@lata.com

P Please consider the environment before printing this email

***www.lata.com***

This message is intended only for use by the individual or entity to which it is addressed. This message may contain information that is confidential or privileged. Any review, retransmission, dissemination, or other use of (or any action taken in reliance upon) this information by persons or entities other than the intended recipient is prohibited. If you received this message in error, please contact the sender via email or Los Alamos Technical Associates, Inc., at (614) 508.1200.

**From:** Lowell M. Carty [mailto:Carty.Lowell@azdeq.gov]
**Sent:** Tuesday, September 01, 2015 4:59 PM
**To:** Moore, James
**Cc:** Tackett, Cory; Brian J. Stonebrink; David G. Christiana
**Subject:** FW: PGA South New wells that need ADEQ numbers

James,

We just completed the assignment of ADEQ Well Numbers to the wells in the well inventory submittal. However, we did note some discrepancies in the drilled depth in the ADWR Image Database and the information provided for these wells. We found the well depth and case depth values in the screen shots provided below. However, the *Well Driller Report and Well Log reports* (see attached PDF reports) appear to be incomplete. The drill depth or casing depth was not found recorded in the copies pulled from the image records from the screen shots shown below. In calling David Christiana with ADWR I discovered that there were some reports with discrepancies where the common names and ADWR 55 Registration Numbers are not matched the same. Mr. Christiana at 602 771 8548 with ADWR is available to assist in resolving any discrepancy regarding the well name and associated ADWR 55 Registration Number. ADWR Registration Number 55-918270 may be associated to well name GMW-29A in their paper work. The well named GMW-30C is associated to ADWR 55 Registration Number 55-918324 in their paperwork. Please let us know which are correct and notify both agencies so we can have consistent information. Please see the loading report and the excel file with the assigned ADEQ Well Numbers. An excerpt of the excel file is provided below. Although we have the ADEQ Well Numbers for the wells at the reported locations I am uncertain regarding the appropriate ADWR 55 Registration Number and/or Common Well Name. Please do not forward any water level or water quality data until we have these issues straighten out. Please provide confirmation regarding the names, locations and ADWR 55 Registration Numbers and note the ADEQ Well Number should be matched to the location when straightening the confusion out. It will be much better to resolve these discrepancies now without additional water level and water quality data associated to the wells. However, once we have resolution on the names, ADWR 55 Registration Number, location and ADEQ Well Number we will then be ready to receive the water level and water quality data. Please note that there are some Well Driller Report and Well Log reports which are with ADWR but have not been added to the image database. The copies in the image database may be the electronically generated forms with the information yet to be captured from the completed reports.

| ADEQ # | Well Name | ADWR # |
|---|---|---|
| 80246 | GMW-29C | 55-918269 |
| 80247 | GMW-30C | 55-918270 |
| 80248 | GMW-31A | 55-918271 |
| 80249 | GMW-32 | 55-918324 |
| 80250 | GMW-33A | 55-918403 |

Here are some screen shots from the ADWR Web Page

Let me know of any questions. I look forward to your water level and water quality data submittals for these wells after we have the well identities resolved. Again, I look forward to resolution regarding the discrepancy on the ADWR 55 Registration Numbers, common names and drilled depth for the wells.

Thanks,
Lowell Carty
Arizona Department of Environmental Quality
1110 W. Washington Street, Mail Code 4415B-1
Phoenix, AZ 85007
Carty.Lowell@azdeq.gov
602 771 4413

==========

**From:** Moore, James [mailto:jmoore@LATA.com]
**Sent:** Monday, August 31, 2015 10:02 AM
**To:** Lowell M. Carty
**Cc:** Tackett, Cory; Brian J. Stonebrink
**Subject:** RE: BATCH5619_PGA SOUTH_Q_2015Q3_ADEQ CHEM PULL 8-20-15.TXT_____FW: Chem data submission

Thank you for the update Lowell. I do have one question. I sent a file over last week with new wells identified that need ADEQ numbers assigned to them. I was just wondering if you needed any additional information on those wells to get the ADEQ numbers assigned.

Thanks again!
James

---

**From:** Moore, James [mailto:jmoore@LATA.com]
**Sent:** Tuesday, August 25, 2015 9:51 AM
**To:** Lowell M. Carty
**Cc:** Brian J. Stonebrink; Tackett, Cory
**Subject:** RE: PGA South New wells that need ADEQ numbers

Hi Lowell

Attached is a set of wells that were recently installed at PGA that will need new ADEQ numbers assigned. Please let me know if you need any additional information to get these added.

Thank you
James

James Moore
Los Alamos Technical Associates, Inc.
756 Park Meadow Road
Westerville, Ohio 43081
614.508.1232 (direct)
jmoore@lata.com

Please consider the environment before printing this email

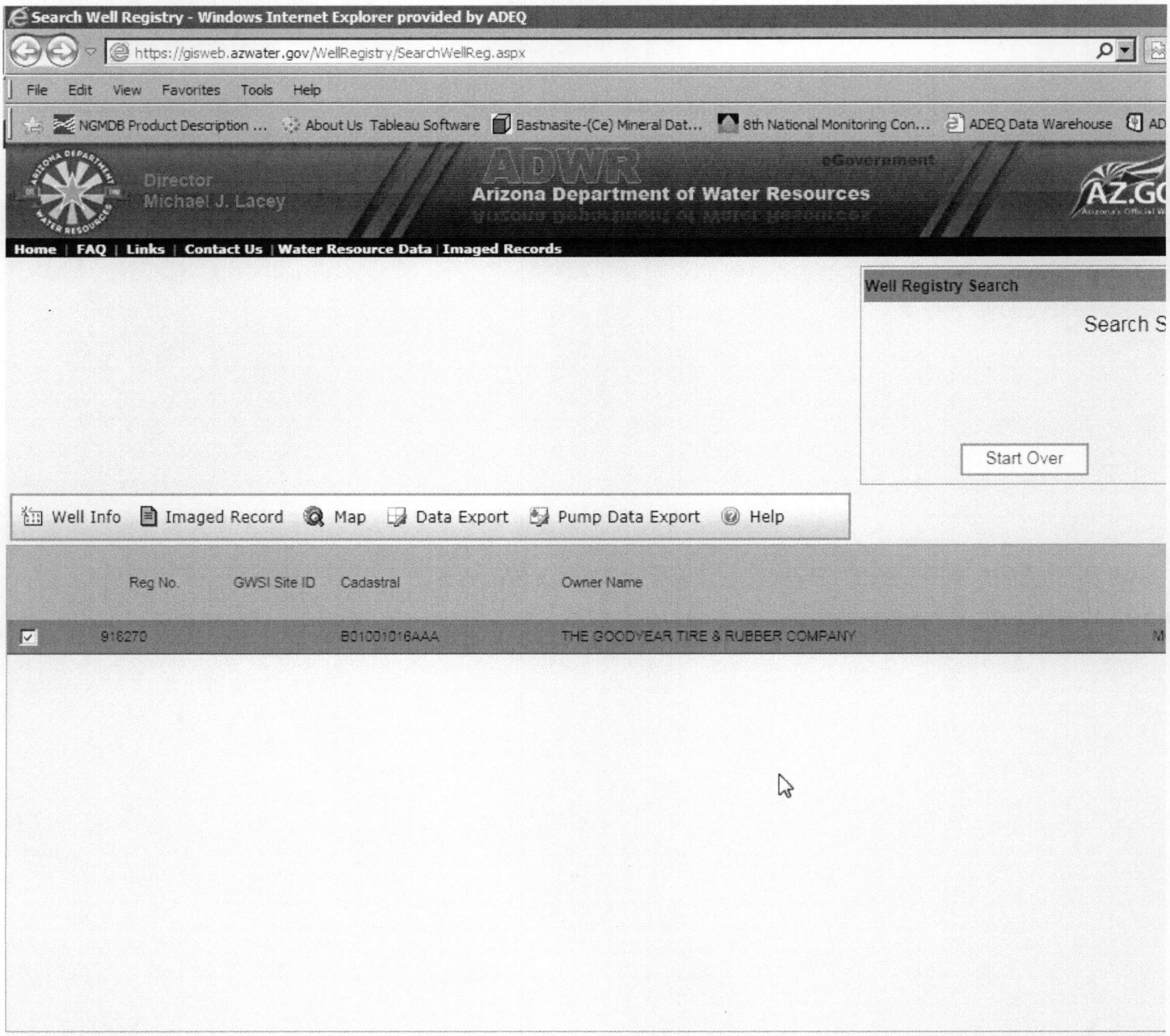
***www.lata.com***

This message is intended only for use by the individual or entity to which it is addressed. This message may contain information that is confidential or privileged. Any review, retransmission, dissemination, or other use of (or any action taken in reliance upon) this information by persons or entities other than the intended recipient is prohibited. If you received this message in error, please contact the sender via email or Los Alamos Technical Associates, Inc., at (614) 508.1200.

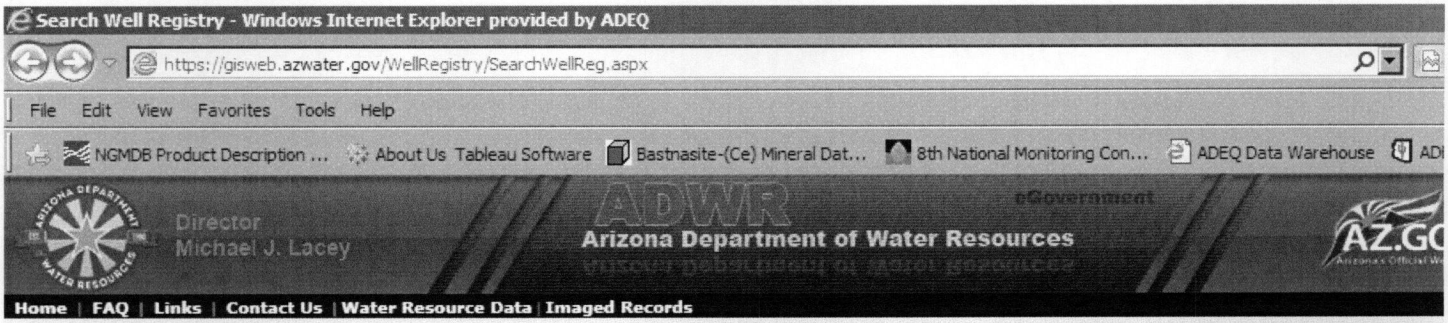
NOTICE: This e-mail (and any attachments) may contain PRIVILEGED OR CONFIDENTIAL information and is intended only for the use of the specific individual(s) to whom it is addressed. It may contain information that is privileged and confidential under state and federal law. This information may be used or disclosed only in accordance with law, and you may be subject to penalties under law for improper use or further disclosure of the information in this e-mail and its attachments. If you have received this e-mail in error, please immediately notify the person named above by reply e-mail, and then delete the original e-mail. Thank you.

NOTICE: This e-mail (and any attachments) may contain PRIVILEGED OR CONFIDENTIAL information and is intended only for the use of the specific individual(s) to whom it is addressed. It may contain information that is privileged and confidential under state and federal law. This information may be used or disclosed only in accordance with law, and you may be subject to penalties under law for improper use or further disclosure of the information in this e-mail and its attachments. If you have received this e-mail in error, please immediately notify the person named above by reply e-mail, and then delete the original e-mail. Thank you.

NOTICE: This e-mail (and any attachments) may contain PRIVILEGED OR CONFIDENTIAL information and is intended only for the use of the specific individual(s) to whom it is addressed. It may contain information that is privileged and confidential under state and federal law. This information may be used or disclosed only in accordance with law, and you may be subject to penalties under law for improper use or further disclosure of the information in this e-mail and its attachments. If you have received this e-mail in error, please immediately notify the person named above by reply e-mail, and then delete the original e-mail. Thank you.




ADWR's Well Registry database contains well information provided by well owners and drillers when wells are registered with the State of Arizona.
Data is not independently verified by ADWR.




Well Registry Search

Search S

Start Over

Well Info | Imaged Record | Map | Data Export | Pump Data Export | Help

| | Reg No. | GWSI Site ID | Cadastral | Owner Name |
|---|---|---|---|---|
| ☐ | 918324 | | B01001016AAB | GOODYEAR TIRE AND RUBBER COMPANY |

ADWR's Well Registry database contains well information provided by well owners and drillers when wells are registered with the State of Arizona.
Data is not independently verified by ADWR.

| | A | B | C | D | E | F | G | H | I | J | K | L | M |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | ADEQ Well # | Well Name | ADWR Number | Longitude | Latitude | L/L Method | Top of Screen | Bottom of Screen | Drill Depth | Measuring Point Elevation (NAVD-88) | MP Elev Method | Easting NAD 83 | Northing NAD 83 |
| 2 | 80246 | GMW-29C | 55-918269 | 1122135.91 | 332605.79 | C | 150.5 | 160.5 | 282 | 962.57 | s | 564831 | 886173 |
| 3 | 80247 | GMW-30C | 55-918324 | 1122139.52 | 332600.92 | C | 150.5 | 165.5 | 200 | 962.86 | s | 564523 | 885682 |
| 4 | 80248 | GMW-31A | 55-918271 | 1122142.04 | 332603.03 | C | 101.5 | 121.5 | 125 | 962.86 | s | 564311 | 885897 |
| 5 | 80249 | GMW-32 | 55-918270 | 1122137.56 | 332604.63 | C | | | 180 | 962.74 | s | 564690 | 886057 |
| 6 | 80250 | GMW-33A | 55-918403 | 1122141.58 | 332600.87 | C | 70 | 95 | 180 | 962.95 | s | 564348 | 885678 |
| 7 | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | |

# ARIZONA DEPARTMENT OF WATER RESOURCES

**Phoenix, Arizona 85012**

## DRILLING CARD

**SPECIAL REQUIRMENTS APPLY (WQARF/SUPERFUND) VARIANCE GRANTED**

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

WELL REGISTRATION NO: **55-918324**

AUTHORIZED DRILLER: **CASCADE DRILLING, LP** LICENSE NO: **226**

NOTICE OF INTENT TO **DRILL A ENV - MONITOR WELL** HAS BEEN FILED WITH THE DEPARTMENT BY:

WELL OWNER: **THE GOODYEAR TIRE & RUBBER COMPANY**

ADDRESS: **200 INNOVATION WAY - JEFF SUSSMAN, AKRON, OH, 44316**

THE WELL(S) IS/ARE TO BE LOCATED IN THE:

**NW** 1/4 of the **NE** 1/4 of the **NE** 1/4 Section **16** Township **01 N** Range **01 W**

NO. OF WELLS IN THIS PROJECT: **1** ASSESSOR'S PARCEL NO: **500-7-003J**

THIS AUTHORIZATION EXPIRES AT MIDNIGHT ON THE DAY OF **6/19/2016**

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 addres above to correct.

Variance(s) Granted To Driller:

- Thermoplastic Casing Surface Seal Variance in upper 20' of well.

Certification(s) Made By Driller:

þ 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.

þ 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.

þ By checking this box, I certify that I have read the applicable substantive policy statement regarding each variance that I am requesting, and that I shall comply with all of the requirements set forth therein.

þ 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.

þ By checking this box, I certify that this NOI application is not an application to replace, deepen, or modify an existing well.

þ By checking this box, I understand that the Authorization to drill this well DOES NOT constitute or guarantee an approval to use the well for the purpose of withdrawing groundwater for transportation to an Active Management

Area (AMA) pursuant to A.R.S. § 45-552, 45-553, 45-554 or 45-555(A) without official prior approval from the Department.

b I understand that this well site is located within the boundaries of a contamination area and that special construction or abandonment requirements shall be complied with, and by checking this box, I certify that I have read the applicable special requirements, and that I shall comply with those standards.

b If the landowner and the well owner are not the same, by checking this box, I certify that I have obtained written approval from the landowner in order to conduct this drilling or abandonment project. A copy of the written approval shall be submitted to ADWR with the Well Driller Report and Well Log or Well Abandonment Completion Report within 30 days of completion of drilling or abandonment.

# ARIZONA DEPARTMENT OF WATER RESOURCES
## Electronic Filing - NOI Report

Phoenix, Arizona

NOI Type: Notice of Intent to Drill, Deepen, Modify a Monitor/Piezometer/Environmental Well
Well Type: ENV - MONITOR
Date Received at ADWR Website: 6/19/2015

Fee Paid: $150.00 Order Number: -3811

Well Registration Number: 55 - 918324
Number of Wells/Holes: 1 Drilling Authority Expires On: 6/19/2016

Driller's ADWR License Number: 226

Authorized Driller: CASCADE DRILLING, LP
ROC License Number Entered By Driller: 286627
Qualifying Party License Categories: A-04

Well Owner Name: THE GOODYEAR TIRE & RUBBER COMPANY
Well Owner Address: 200 INNOVATION WAY - JEFF SUSSMAN
Well Owner City, State - Zip: AKRON, OH - 44316
Well Owner Phone: 330 796-0578

Book: 500 Map: 7 Parcel: 003J

Is the Land Owner the same as the Well Owner?: No

Land Owner Name: JRC GOODYEAR
Land Owner Address: 2122 E. HIGHLAND AVE, SUITE 400
Land Owner City, State - Zip: PHOENIX, AZ - 85016
Land Owner Phone: 602 265-6000

Well Location: **NW** 1/4 of the **NE** 1/4 of the **NE** 1/4 Section **16** Township **1 N** Range **1 W**

AMA: PHOENIX AMA
County: MARICOPA
Contamination Site: PHOENIX/GOODYEAR AIRPORT-SOUTH

Primary Water Use: **MONITORING**
Secondary Water Use(s): **N/A**

Is any portion of the land, on which the well is to be located, within 100 feet of a designated municipal provider's operating water distribution system as shown on the municipal provider's most recent digitized service area map filed by the municipal provider with the director of ADWR. **N/A**

Will you be installing a dedicated pump ?: **No**

Will the installed pump have a pumping capacity of greater than 35 GPM, or will the well will be used to withdraw greater than 10 Acre Feet per year?: **N/A**

Variance(s) Granted To Driller:

- Thermoplastic Casing Surface Seal Variance in upper 20’ of well.

Certification(s) Made By Driller:

- þ 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.
- þ 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.
- þ By checking this box, I certify that I have read the applicable substantive policy statement regarding each variance that I am requesting, and that I shall comply with all of the requirements set forth therein.
- þ 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.
- þ By checking this box, I certify that this NOI application is not an application to replace, deepen, or modify an existing well.
- þ By checking this box, I understand that the Authorization to drill this well DOES NOT constitute or guarantee an approval to use the well for the purpose of withdrawing groundwater for transportation to an Active Management Area (AMA) pursuant to A.R.S. § 45-552, 45-553, 45-554 or 45-555(A) without official prior approval from the Department.
- þ I understand that this well site is located within the boundaries of a contamination area and that special construction or abandonment requirements shall be complied with, and by checking this box, I certify that I have read the applicable special requirements, and that I shall comply with those standards.
- þ If the landowner and the well owner are not the same, by checking this box, I certify that I have obtained written approval from the landowner in order to conduct this drilling or abandonment project. A copy of the written approval shall be submitted to ADWR with the Well Driller Report and Well Log or Well Abandonment Completion Report within 30 days of completion of drilling or abandonment.

**Arizona Department of Water Resources**
Information Management Unit
PO Box 36020 l Phoenix, Arizona 85067-36020
(602) 771-8527 l 602-771-8500

# Well Driller Report and Well Log

THIS REPORT MUST BE FILED WITHIN **30 DAYS** OF COMPLETING THE WELL.

PLEASE PRINT CLEARLY USING BLACK OR BLUE INK

FILE NUMBER **B(1-1) 16 AAB**

WELL REGISTRATION NUMBER **55 - 918324**

PERMIT NUMBER (IF ISSUED)

## SECTION 1. DRILLING AUTHORIZATION

### Drilling Firm

**Mail To:**

| NAME | DWR LICENSE NUMBER |
|---|---|
| CASCADE DRILLING, LP | 226 |
| ADDRESS | TELEPHONE NUMBER |
| 7773 W. SELDON LANE. | 623-935-0124 |
| CITY / STATE / ZIP | FAX |
| PEORIA, AZ, 85345-7973 | |

## SECTION 1. REGISTRY INFORMATION

### Well Owner

FULL NAME OF COMPANY, ORGANIZATION, OR INDIVIDUAL
THE GOODYEAR TIRE & RUBBER COMPANY

MAILING ADDRESS
200 INNOVATION WAY - JEFF SUSSMAN

CITY / STATE / ZIP
AKRON, OH, 44316

CONTACT PERSON NAME AND TITLE

TELEPHONE NUMBER
330 796-0578

FAX

WELL NAME (e.g., MW-1, PZ-3, lot 25 Well, Smith Well, etc.)

### Location of Well

WELL LOCATION ADDRESS (IF ANY)

| TOWNSHIP (N/S) | RANGE (E/W) | SECTION | 160 ACRE | 40 ACRE | 10 ACRE |
|---|---|---|---|---|---|
| | | | 1/4 | 1/4 | 1/4 |

| LATITUDE | | | LONGITUDE | | |
|---|---|---|---|---|---|
| ° | ' | "N | ° | ' | "W |

METHOD OF LATITUDE/LONGITUDE (CHECK ONE)
☐ USGS Quad Map ☐ Conventional Survey ☐ *GPS: Hand-Held ☐ *GPS: Survey-Grade

LAND SURFACE ELEVATION AT WELL
Feet Above Sea Level

METHOD OF ELEVATION (CHECK ONE)
☐ USGS Quad Map ☐ Conventional Survey ☐ *GPS: Hand-Held ☐ *GPS: Survey-Grade

*IF GPS WAS USED, GEOGRAPHIC COORDINATE DATUM (CHECK ONE)
☐ NAD-83 ☐ Other (please specify)

COUNTY

ASSESSOR'S PARCEL ID NUMBER (MOST RECENT)

| BOOK | MAP | PARCEL |
|---|---|---|
| 500 | 7 | 003J |

## SECTION 3. WELL CONSTRUCTION DETAILS

### Drilling Method

CHECK ONE
☐ Air Rotary
☐ Bored or Augered
☐ Cable Tool
☐ Dual Rotary
☐ Mud Rotary
☐ Reverse Circulation
☐ Driven
☐ Jetted
☐ Air Percussion / Odex Tubing
☐ Other (please specify)

### Method of Well Development

CHECK ONE
☐ Airlift
☐ Bail
☐ Surge Block
☐ Surge Pump
☐ Other (please specify)

### Condition of Well

CHECK ONE
☐ Capped
☐ Pump Installed

### Method of Sealing at Reduction Points

CHECK ONE
☐ None
☐ Packed
☐ Swedged
☐ Welded
☐ Other (please specify)

### Construction Dates

DATE WELL CONSTRUCTION STARTED

DATE WELL CONSTRUCTION COMPLETED

*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.*

SIGNATURE OF QUALIFYING PARTY

DATE

**Well Driller Report and Well Log**

WELL REGISTRATION NUMBER
**55 - 918324**

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

### Depth

| DEPTH OF BORING | DEPTH OF COMPLETED WELL |
|---|---|
| Feet Below Land Surface | Feet Below Land Surface |

### Water Level Information

| STATIC WATER LEVEL | DATE MEASURED | TIME MEASURED | IF FLOWING WELL, METHOD OF FLOW REGULATION |
|---|---|---|---|
| Feet Below Land Surface | | | ☐ Valve ☐ Other: |

### Borehole

| DEPTH FROM SURFACE | | BOREHOLE DIAMETER (inches) |
|---|---|---|
| FROM (feet) | TO (feet) | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

### Installed Casing

| DEPTH FROM SURFACE | | OUTER (inches) | MATERIAL TYPE (T) | | | | PERFORATION TYPE (T) | | | | | | SLOT SIZE (inches) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 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 | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |

### Installed Annular Material

| DEPTH FROM SURFACE | | ANNULAR MATERIAL TYPE (T) | | | | | | | | FILTER PACK | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | BENTONITE | | | | | | |
| FROM (feet) | TO (feet) | NONE | CONCRETE | NEAT CEMENT OR CEMENT GROUT | CEMENT-BENTONITE GROUT | GROUT | CHIPS | PELLETS | IF OTHER TYPE OF ANNULAR MATERIAL, DESCRIBE | SAND | GRAVEL | SIZE |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |

**Well Driller Report and Well Log**

WELL REGISTRATION NUMBER
**55 - 918324**

## SECTION 5. GEOLOGIC LOG OF WELL

| DEPTH FROM SURFACE | | Description<br>Describe material, grain size, color, etc. | Check (T) every interval where water was encountered (if known) |
|---|---|---|---|
| FROM (feet) | TO (feet) | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

**Well Driller Report and Well Log**

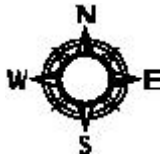
WELL REGISTRATION NUMBER
**55 - 918324**

**SECTION 6. WELL SITE PLAN**

| NAME OF WELL OWNER | COUNTY ASSESSOR'S PARCEL ID NUMBER (MOST RECENT) | | |
|---|---|---|---|
| | BOOK | MAP | PARCEL |
| THE GOODYEAR TIRE & RUBBER COMPANY | 500 | 7 | 003J |

v 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.

v Please indicate the distance between the well location and any septic tank system or sewer system.

| | | | | | | |
|---|---|---|---|---|---|---|
| | | | | | |   |
| | | | | | | **1" = _____ ft** |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

# Well Driller Report and Well Log

**Introduction**
These instructions are a guide to filling out Form DWR 55-55 (Rev. 06/15/2010), entitled "Well Driller Report and Well Log." Please review the instructions prior to completing the form in black or blue ink. Forms may be obtained at any Arizona Department of Water Resources (ADWR) office and at ADWR's web site, http://www.azwater.gov. For information about the form or these instructions, contact Groundwater Permitting & Wells at (602) 771-8500. There is no fee for filing this form.

**When Form DWR 55-55 Must be Filed**
Within 30 days after completion of the drilling, deepening or modification of a well, the licensed well driller who performed the work must file a Well Driller Report and Log with ADWR. Because the information in the report describes the well as it was actually constructed, and comes from the person who constructed the well, the information is very valuable to ADWR. For that reason, it is very important to fill out the report with the most accurate information possible.

**Instructions for Filling out the Form**

***Well Registration and Permit Numbers***
Fill in the registration number of the well and any ADWR permit number associated with the well in the upper right-hand corner of the first page. Also fill in the well registration number in the upper right-hand corner of all other pages so that the well information on those pages can be identified when the pages are separated during computer imaging.

***Section 1 - Drilling Authorization***
Fill in the name, address, DWR license number and telephone and fax numbers of the drilling firm filing the report.

***Section 2 - Registry Information***

*Well Owner*
Fill in the name, mailing address, telephone number and fax number (if available) of the well owner. If the well owner is a corporation, governmental unit or other entity, provide the name of a contact person.

*Location of Well*
Fill in the following information relating to the location of the well:

- The street address of the property where the well is located. For monitor wells or other wells associated with contaminant investigations or remedial projects, this will usually be the same as the facility address.
- The legal description of the well site. The legal description is the township, range, section, and in decreasing order, the quarters of that section so that the well location falls in a 10-acre block within that section. Normally, the legal description will be the same as that given in the original Notice of Intent to drill the well, but occasionally a more accurate description is discovered after the Notice is filed.
- The latitude and longitude (in degrees-minutes-seconds format) and land surface elevation at the well, and the method used to determine these data. **Please note this information is mandatory.** Use of a Global Positioning System (GPS) receiver is the only method accepted by the Department. The GPS unit should be adjusted to use the NAD-83 datum. Please indicate if the geographic coordinate datum used was NAD-83, and if not, which datum was used.
- The name of the county and the tax assessor's parcel identification number for the land where the well is located. This information can normally be taken from the original Notice of Intent to drill the well, and may also be obtained from the county tax assessor's office. Federal or State land will not have a parcel identification number.

***Section 3 - Well Construction Details***
Section 3 requires details on the construction of the well. Indicate the drill method by checking the appropriate box. If the drill method is not listed, check the "Other" box and describe the method. To the right of that, indicate the method of well development by checking the

appropriate box. Next, indicate the method of sealing at reduction points. If the method used is not listed, check "Other" and provide a brief explanation. Under *Well Driller Completion Report and Well Log* Form 55-55 Instructions (Rev. 06/2010) Page 2

**Condition of Well,** indicate whether the well was capped, or a pump was installed, when you left it. Then fill in the date when well construction started, and the date when well construction was completed.

***Signature Block***

The form must be signed and dated by the qualifying party of the drilling firm.

***Section 4 - Well Construction Design (As Built)***

Section 4 contains tables to fill in information on the existing borehole, the installed casing and the installed annular material. The tables are broken down by depth interval.

In the first set of boxes, fill in the depth of the boring and the depth of the completed well, as measured in feet below the land surface.

Under **Water Level Information** please indicate the static water level in the well, as measured in feet below the land surface, and the date and time the water level was measured. If the well is a flowing well, include the method by which the artesian flow is regulated.

In the **Borehole** table, fill in the diameter of the borehole in inches, and indicate the depth interval for each change in diameter. In the **Installed Casing** table, fill in the outer diameter of the casing in inches, check the appropriate boxes indicating the type of casing material and the type of perforations, and fill in the slot size of any perforations. Fill in the depth interval for each change in information. Please note that not every interval will be perforated. Check the "Blank or None" box for non-perforated depth intervals. If the type of casing material or perforations is not listed, describe the type in the appropriate box.

In the **Installed Annular Material** table, check the appropriate boxes indicating the type of annular material or filter pack installed at each depth interval. Fill in the size of the filter pack used. Provide the depth interval for each change in information. If the type of annular material is not listed, describe the material in the appropriate box.

***Section 5 - Geologic Log of Well***

Section 5 requires the geologic or lithologic log of the well. Describe the various units encountered during drilling. Provide as much description as possible. The log description must be broken down by depth intervals below ground surface, and every interval where groundwater, including perched groundwater, was encountered must be checked. If a consulting firm was involved with the well construction, the consultant's lithologic log may be submitted in lieu of completing Section 5.

***Section 6 - Well Site Plan***

In the boxes at the top of Section 6, fill in the name of the well owner and the county tax assessor's parcel identification number for the land where the well is located. Below that, provide a scale drawing of where the well was actually constructed on the parcel, illustrating the property boundaries, the well location and any structures on the property. The drawing must also show the location of any septic tank or sewer systems on the property or within 100 feet of the well, even if on neighboring property, and the distance between the well and the septic tank or sewer system. The drawing should closely match the drawing on the original Notice of Intent to drill the well, but the purpose of this drawing is to show where the well was actually drilled, especially if the location is different than originally planned. This information will be shared with the county.

**Where to File Form**

Completed forms may be mailed to ADWR at the following address:

**Arizona Department of Water Resources**
Groundwater Permitting and Wells
PO Box 36020
Phoenix, AZ 85067-36020

Completed forms may also be submitted to ADWR's main office at 3550 North Central Avenue, Second Floor., Phoenix, AZ 85012.

The completed form must be legible and of good quality when received by ADWR so that it can be scanned into ADWR's permanent records.

ARIZONA DEPARTMENT of WATER RESOURCES
3550 North Central Avenue, Second Floor
Phoenix, AZ 85012
602-771-8500
azwater.gov

June 19, 2015

THE GOODYEAR TIRE & RUBBER COMPANY
200 INNOVATION WAY - JEFF SUSSMAN
AKRON, OH 44316

DOUGLAS A. DUCEY
Governor

THOMAS BUSCHATZKE
Director

Registration No. 55- 918324
File Number: B(1-1) 16 AAB

Dear Well Applicant:

Enclosed is a copy of the Notice of Intention to Drill (NOI) a well which you or your driller recently filed with the Department of Water Resources. This letter is to inform you that the Department has approved the NOI and has mailed, or made available for download, a drilling authorization card to your designated well drilling contractor. The driller may not begin drilling until he/she has received the authorization, and must keep it in their 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, a new NOI must be filed and authorization from this Department received before proceeding with drilling. If 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 must be filed by your driller [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 on a Request to Change Well Information (form 55-71A). 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/she receives a new drilling authorization card from the Department.

If you find it necessary to change the location of the proposed well(s), you may not proceed with drilling until you file an amended NOI with the Department. An amended drilling authorization card will then be issued to the well drilling contractor, which must be in their possession before drilling begins.

Arizona statute [A.R.S. § 45-600] requires registered well owners to file a Pump Installation Completion Report (form 55-56) with the Department within 30 days after the installation of pumping equipment, if authorized. A blank report is enclosed for your convenience. State statute also requires the driller to file a complete and accurate Well Drillers Report and Well Log (form 55-55) within 30 days after completion of drilling. A blank report form was provided to your driller with the drilling authorization card. You should insist and ensure that all of the required reports are accurately completed and timely filed with the Department.

Please be advised that Arizona statute [A.R.S. § 45-593(C)] requires a registered well owner 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 (form 55-71A) that may be downloaded from the ADWR Internet website at www.azwater.gov.

Sincerely,

Groundwater Permitting and Wells Section

ARIZONA DEPARTMENT of WATER RESOURCES
3550 North Central Avenue, Second Floor
Engineering and Permits Division
Phoenix, AZ 85012
602-771-8500

# NOTICE TO WELL DRILLERS

**This is a reminder that a valid drill card be present for the drilling of each and every well constructed on a site.* The problem seems to occur during the construction of a well when an unexpected problem occurs. Either the hole collapses, the hole is dry, a drill bit is lost and can't be recovered, or any number of other situations where the driller feels that he needs to move over and start another well. If you encounter this type of scenario, please be aware drillers do not have the authority to start another well without first obtaining drilling authority for the new well. Please note the following statutes and regulations pertaining to well drilling and construction:**

**ARIZONA REVISED STATUTE (A.R.S.)**

**A.R.S. § 45-592.A.**

**A person may construct, replace or deepen a well in this state only pursuant to this article and section 45-834.01. The drilling of a well may not begin until all requirements of this article and section 45-834.01, as applicable, are met.**

*******

**A.R.S. § 594.A.**

**The director shall adopt rules establishing construction standards for new wells and replacement wells, the deepening and abandonment of existing wells and the capping of open wells.**

*******

**A.R.S. § 600.A**

**A well driller shall maintain a complete and accurate log of each well drilled.**

**ARIZONA ADMINISTRATIVE CODE (A.A.C.)**

**A.A.C. R12-15-803.A.**
**A person shall not drill or abandon a well, or cause a well to be drilled or abandoned, in a manner which is not in compliance with A.R.S. Title 45, Chapter 2, Article 10, and the rules adopted thereunder.**

*******

**A.A.C. R12-15-810.A.**
**A well drilling contractor or single well licensee may commence drilling a well only if the well drilling contractor or licensee has possession of a drilling card at the well site issued by the Director in the name of the well drilling contractor or licensee, authorizing the drilling of the specific well in the specific location.**

*******

**A.A.C. R12-15-816.F.**
**In the course of drilling a new well, the well may be abandoned without first filing a notice of intent to abandon and without an abandonment card.**

*** THIS REQUIREMENT DOES NOT PERTAIN TO THE DRILLING OF MINERAL EXPLORATION, GEOTECHNICAL OR HEAT PUMP BOREHOLES**

**Arizona Department of Water Resources**
Groundwater Permitting and Wells Section
PO Box 36020 , Phoenix, AZ 85067-36020
(602) 771-8527 ▪ 1-800-352-8488
www.azwater.gov

**Landowner Authorization to Drill or Abandon a Well on Landowner's Parcel**

## Landowner Authorization to Drill or Abandon a Well by a Third Party on Landowner's Parcel Pursuant to A.R.S. § 45-596 and A.A.C. R12-15-809

FILE NUMBER **B(1-1) 16 AAB**
WELL REGISTRATION NUMBER 55 - 918324

The Arizona Department of Water Resources requires a well driller or well owner to obtain written permission from the owner of the land on which they intend to drill or abandon a well. Landowners, or their designated representative, must authorize the well to be drilled or abandoned with their signature on the Notice of Intent or on this form, to be attached to the Notice of Intent form.

PARCEL ADDRESS _____

COUNTY PARCEL ID 500 (BOOK) - 7 (MAP) - 003J (PARCEL) COUNTY MARICOPA

In accordance with A.R.S. § 45-496 and A.A.C. R12-15-809, I certify that:

¨ I am the owner of the parcel on which I am giving permission for a well to be ¨ drilled or ¨ abandoned.

¨ I am an authorized representative of the owner of the parcel on which I am giving permission for a well to be ¨ drilled or ¨ abandoned.

**SIGNATURE**

| TYPE OR PRINT NAME OF LANDOWNER / RESPRESENTATIVE | TITLE |
|---|---|
| SIGNATURE | DATE SIGNED |