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**SAN ANTONIO WATER SYSTEM PURCHASING DEPARTMENT**

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Issued By: **D. Anthony Rubin**  
BID NO.: **13-1508**

Date Issued: **August 21, 2013**

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**FORMAL INVITATION FOR BIDS**  
**CONTRACT FOR TO PERFORM WELL PLUGGING SERVICES UPON**  
**SAWS DIRECTION IN AREAS DESIGNATED BY SAWS**  
**ADDENDUM NO. 1**

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Sealed bids addressed to the Purchasing Director, San Antonio Water System, 2800 US Hwy 281 North, Administration Bldg., 5<sup>th</sup> Floor, P.O. Box 2449, San Antonio, TX 78298-2449 will be received until **3:00 p.m., September 4, 2013** and then publicly opened and read aloud for furnishing materials or services as described herein below,

The San Antonio Water System Purchasing Department is willing to assist any bidder(s) in the interpretation of bid provisions or explanation of how bid forms are to be completed. Assistance may be received by visiting the Purchasing Office in the SAWS Main Office, 2800 US Hwy 281 North, San Antonio, TX 78212, or by calling (210) 233-3819.

This invitation includes the following:

Invitation for Bids  
Terms and Conditions of Invitation for Bids

Specifications and General Requirements  
Price Schedule

The undersigned, by his/her signature, represents that he/she is authorized to bind the Bidder to fully comply with the Specifications and General Requirements for the amount(s) shown on the accompanying bid sheet(s). By signing below, Bidder has read the entire document and agreed to the terms therein.

Signer's Name: \_\_\_\_\_ Firm Name: \_\_\_\_\_  
(Please Print or Type)

Address: \_\_\_\_\_

Signature of Person Authorized to Sign Bid \_\_\_\_\_ City, State, Zip Code: \_\_\_\_\_

Email Address: \_\_\_\_\_ Telephone No.: \_\_\_\_\_

Fax No.: \_\_\_\_\_

Please complete the following:

Prompt Payment Discount: \_\_\_\_\_% \_\_\_\_\_days. (If no discount is offered, Net 30 will apply.)

Please check the following blanks which apply to your company:

Ownership of firm (51% or more):

Non-minority  Hispanic  African-American  Other Minority (specify) \_\_\_\_\_

Female Owned  Handicapped Owned  Small Business (less than \$1 million annual receipts or 100 employees)

Indicate Status:  Partnership  Corporation  Sole Proprietorship  Other (specify) \_\_\_\_\_

Tax Identification Number: \_\_\_\_\_

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**Addendum 1:**

13-1508 DSP Well Plugging

Change the Bid opening date from **AUGUST 28, 2013, 3:00 P.M** to **SEPTEMBER 4, 2013, 3:00 P.M.**

Price schedules on pages 25-29 is replaced as per addendum.

Bidder can obtain a copy of the well logging records by contacting Jim O'Connor at (210) 233-3547 or email at [jim.oconnor@saws.org](mailto:jim.oconnor@saws.org) with a copy to [arubin@saws.org](mailto:arubin@saws.org) Well logging records will be made available upon request.

Additional questions pertaining to bid will be answered by D. Anthony Rubin at (210) 233-3815 or via e-mail [arubin@saws.org](mailto:arubin@saws.org) . Questions must be must be submitted in writing and received by **August 23, 2013 by 2:00 PM.**

**The following is a list Questions from Mandatory Pre-Bid Meeting held on August 16, 2013:**

Question 1:

Can we change bid form to a per job plugging with well specifications as to size of casing and depth of well per well?

**The pricing schedule has been changed so that each well will be priced individually. Pricing will provided lump sum per each site.**

Question 2:

Can we change bid form to item #3 logging to a per each log?

**Pricing schedule changed.**

Question 3:

Is bid item #4 cleaning-airlifting or drilling?

**The new price schedule does not address a preferred method, if applicable use the best practice method to get the job accomplish.**

Question 4:

On page 23 of 43 needs to be changed to Pump Installer licensed or Drilling license.

**Is no changed to read: Licensed Driller or Licensed Pump Installer**

Question 5:

Several of the wells may have pumping equipment that will have to be removed. What will be the disposition of this equipment?

**All equipment will be removed from the sites by the successful contractor.**

Question 6:

Can the contractor take this? **Yes**

**IT IS NECESSARY TO RETURN THIS ADDENDUM WITH YOUR BID**

**PRICE SCHEDULE**

**FIRST YEAR BASE BID**

<b>Item No.</b>	<b>Description</b>	<b>Qty</b>	<b>Unit Price</b>	<b>Total</b>
1	Edwards Aquifer Well at 400 Fleetwood, well plugging and EAA permit	1 LS	\$	\$
2	Carrizo Well at 19260 Somerset Rd., well plugging and 2 hours of standby time for logging	1 LS	\$	\$
3	Trinity Well 078WP2 – 26803 Harmony Hills, Well Pulling and Plugging and 3 hours of standby time for logging and TGR Permit	1 LS	\$	\$
4	Trinity Well 076WP1 – 26802 harmony Hills, Well Plugging and TGR Permit	1 LS	\$	\$
5	Trinity Well 077WP1 – 26802 Harmony Hills, Well Plugging and TGR Permit	1 LS	\$	\$
6	Trinity Well 075WP1 – 26975 Timberline Dr., Well Plugging and TGR Permit	1 LS	\$	\$
7	Trinity Well 075WP2 – 26975 Timberline Dr., Well Plugging and TGR Permit	1 LS	\$	\$
8	Trinity Well 080WP2 – 802 Bestway Well Pulling and Plugging and 3 hours of standby time for logging and TGR Permit	1 LS	\$	\$
9	Carrizo Well 048WP4 – 4551 Oak South, Well Plugging	1 LS	\$	\$
10	Carrizo Well 045WP3 – 4370 Palo Alto, Well Plugging	1 LS	\$	\$
11	Wells 100WP1 and 100WP2 -13900 IH 35 South, Well Pulling and Plugging	1 LS	\$	\$
12	Carrizo Well 049WP3 – 2111 Silver Mountain, Well Plugging	1 LS	\$	\$
13	Well 171WP1 – Mansion, Well Plugging	1 LS	\$	\$
14	Edwards Aquifer Well 124WP1 – 1465 CR 38, Well casing Perforations and Well Plugging and EAA permit	1 LS	\$	\$
15	Edwards Aquifer Well 097WP1 – 13678 Remuda Ranch Well Plugging and EAA permit	1 LS	\$	\$
<b>TOTAL COST</b>				\$

## **SUMMARY OF WORK AND GENERAL REQUIREMENTS:**

### **SECTION: 23**

#### **A. DESCRIPTION OF WORK**

##### **Well at 400 Fleetwood**

1. Work includes mobilization, cementing the open Glen Rose Formation to the bottom of the Edwards formation, setting gravel in the open Edwards formation to 10 feet below the casing, cementing the well casing via pressure cementing from the top of the gravel to the surface, demolition of headwork's to include removing cement pad and cutting casing off 5 feet below surface grade. Obtain a San Antonio Water System and Edwards Aquifer Authority Plugging Permit prior to plugging well.

##### **Well at 400 Fleetwood Description**

Date Drilled – 2006

Total Depth – 605 feet

Bottom of casing – 301 feet below land surface

Casing diameter – 12.75 inches from surface to 301 feet below land surface

Open Edwards formation – 301 feet to 427 feet below land surface

Open Glen Rose formation – 427 feet to 605 feet below land surface

Open hole diameter – 11 inches (see log for cement and gravel calculations)

Water Level – estimate 340 feet below land surface

(Geophysical log available) Map Attached



## STATE OF TEXAS WELL REPORT for Tracking #88355

Owner:	BexarMet Water District	Owner Well #:	1
Address:	2047 W. Malone San Antonio, TX 78255	Grid #:	68-29-1
Well Location:	400 Fleetwood Dr. San Antonio, TX	Latitude:	29° 35' 48" N
Well County:	Bexar	Longitude:	098° 29' 41" W
Elevation:	1030 ft.	GPS Brand Used:	Megelian 315

Type of Work:	New Well	Proposed Use:	Public Supply; Plans Approved by TCEQ
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Drilling Date:        Started: 4/7/2006  
                             Completed: 7/23/2006

Diameter of Hole:    Diameter: 30 in From Surface To 28 ft  
                             Diameter: 16 in From 28 ft To 305 ft  
                             Diameter: 11 in From 305 ft To 606 ft

Drilling Method:     Air Rotary

Borehole  
Completion:         Open Hole Straight Wall

Annular Seal Data:    1st Interval: From 28 ft to 0 ft with 6 yds. grout (#sacks and material)  
                             2nd Interval: From 304 ft to 0 ft with 534 sks cement (#sacks and material)  
                             3rd Interval: No Data  
                             Method Used: Internal & External Pressure Tremmie  
                             Cemented By: Superior Well Services  
                             Distance to Septic Field or other Concentrated Contamination: 170+ ft  
                             Distance to Property Line: 10 ft  
                             Method of Verification: Plat- Sannitary Easement  
                             Approved by Variance: No Data

Surface  
Completion:         Surface Slab Installed

Water Level:         Static level: 256 ft. below land surface on 7/5/2006  
                             Artesian flow: No Data

Packers:             N/A

Plugging Info:        Casing left in well:    Cement/Bentonite left in well:  
                             From (ft) To (ft)        From (ft) To (ft)    Cem/Bent    Sacks Used  
                             N/a

Type Of Pump:        No Data

Well Tests:            Pump  
                             Yield: 200 GPM with 171 ft drawdown after 12 hours

Water Quality:        Type of Water: Rdwards  
                             Depth of Strata: 302 ft.  
                             Chemical Analysis Made: Yes  
                             Did the driller knowingly penetrate any strata which contained undesirable constituents: No

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the log(s) being returned for completion and resubmittal.

Company Information: **Alsay, Inc**  
**3359 S.E. Loop 410**  
**San Antonio , TX 78222**

Driller License Number: **54636**

Licensed Well Driller Signature: **Douglas B. Hill**

Registered Driller Apprentice Signature: **Tye Newman**

Apprentice Registration Number: **3029**

Comments: **No Data**

**IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY**

TEX. OCC. CODE Title 12, Chapter 1901.251, authorizes the owner (owner or the person for whom the well was drilled) to keep information in Well Reports confidential. The Department shall hold the contents of the well log confidential and not a matter of public record if it receives, by certified mail, a written request to do so from the owner.

Please include the report's Tracking number (Tracking #88355) on your written request.

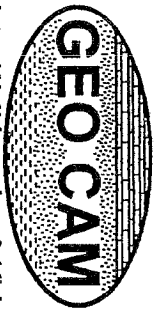
**Texas Department of Licensing & Regulation**  
**P.O. Box 12157**  
**Austin, TX 78711**  
**(512) 463-7880**

**DESC. & COLOR OF FORMATION MATERIAL**

**CASING, BLANK PIPE & WELL SCREEN DATA**

From (ft) To (ft) Description  
0 &-65 Lt. Brown & White LS  
65-75 Fractured Tan LS  
75-100 Tan Limestone  
100-125 Dense Tan LS  
125-240 Dense Tan to White LS w/flint  
240-300 Dense Limestone  
300-440 Fractured Lt. Tan LS  
440-600 Dense Tan to Gray LS

Dia. New/Used Type Setting From/To  
12 3/4 new Steel-A53-Gr.B 304-+2 .375  
20 new Steel 28-0 .250



Borehole: FLEETWOOD#1

Logs: GAMMA, RESISTIVITY, FL. RES. & TEMP., CALIPER

Water Well Logging & Video Recording Services

Geo Cam, Inc. 2038 Adobe Trail San Antonio, TX 210-495-9121

Project: BEXARMET-HOLLYWOOD PARK

Date: 06-13-06

Client: ALSAY, INC.

County: BEXAR

Location(GPS): N 29° 35' 48.4", W 98° 29' 40.8"

State: TX

BOREHOLE DATA

Drilling Contractor: ALSAY

Driller T.D.: 606'

Elevation: EST. 1,030 GPS

Logger T.D.: 606'

Depth Ref: G.L.

Date Drilled: 06-13-06

RUN	BIT SIZE	BIT RECORD		CASING RECORD	
		FROM	TO	SIZE/WGT/THK	FROM
1	NA	0'	303'	12"	+2'
2	9 7/8"	304'	606'	OPEN	
3					

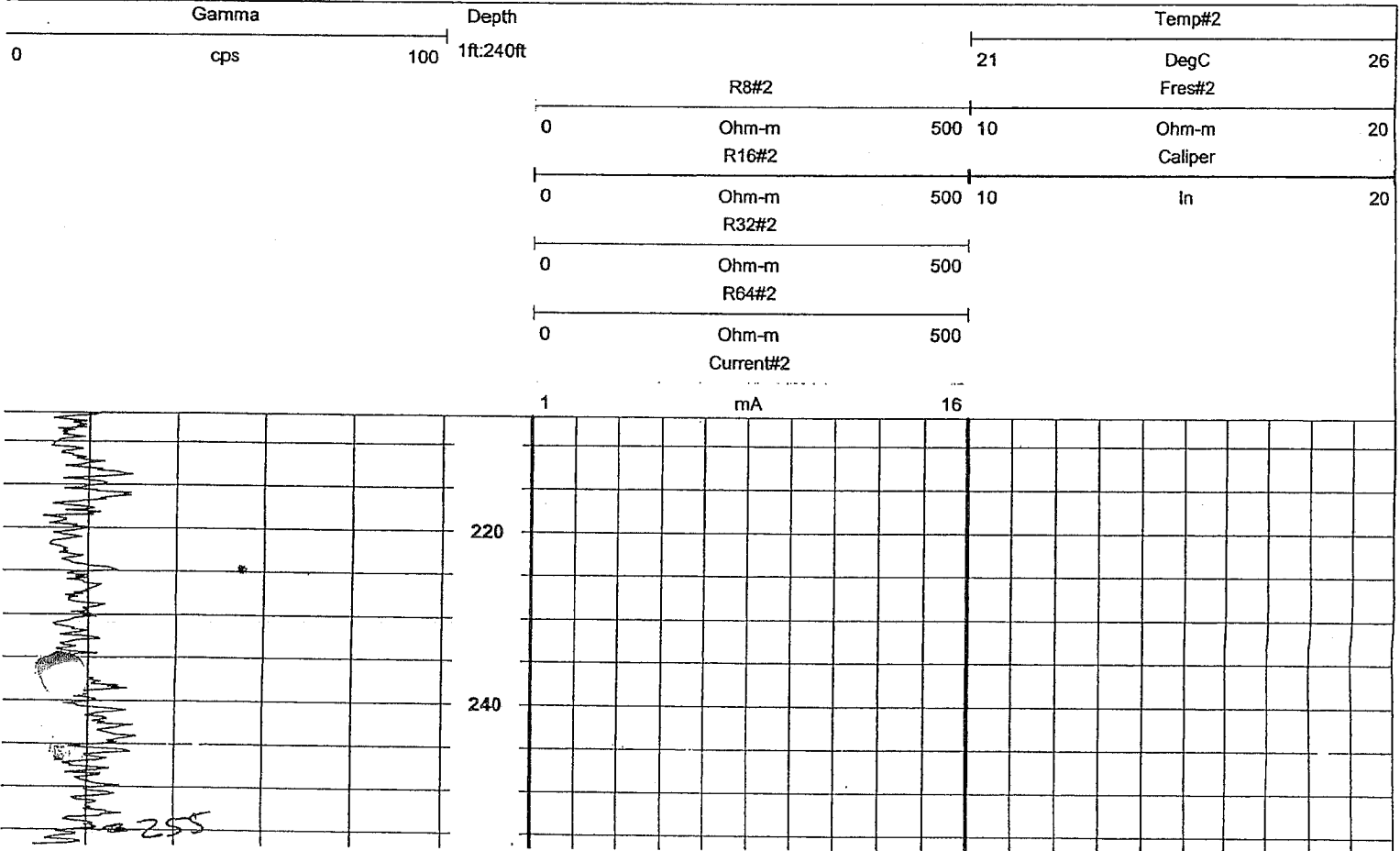
Drill Method: AIR ROTARY Weight: Fluid Level: 269'  
 Hole Medium: Mud Type: Time Since Circ: 2 HRS.  
 Viscosity: Rm: at: Deg C

Logged by: Michael Miller Unit/Truck: 03

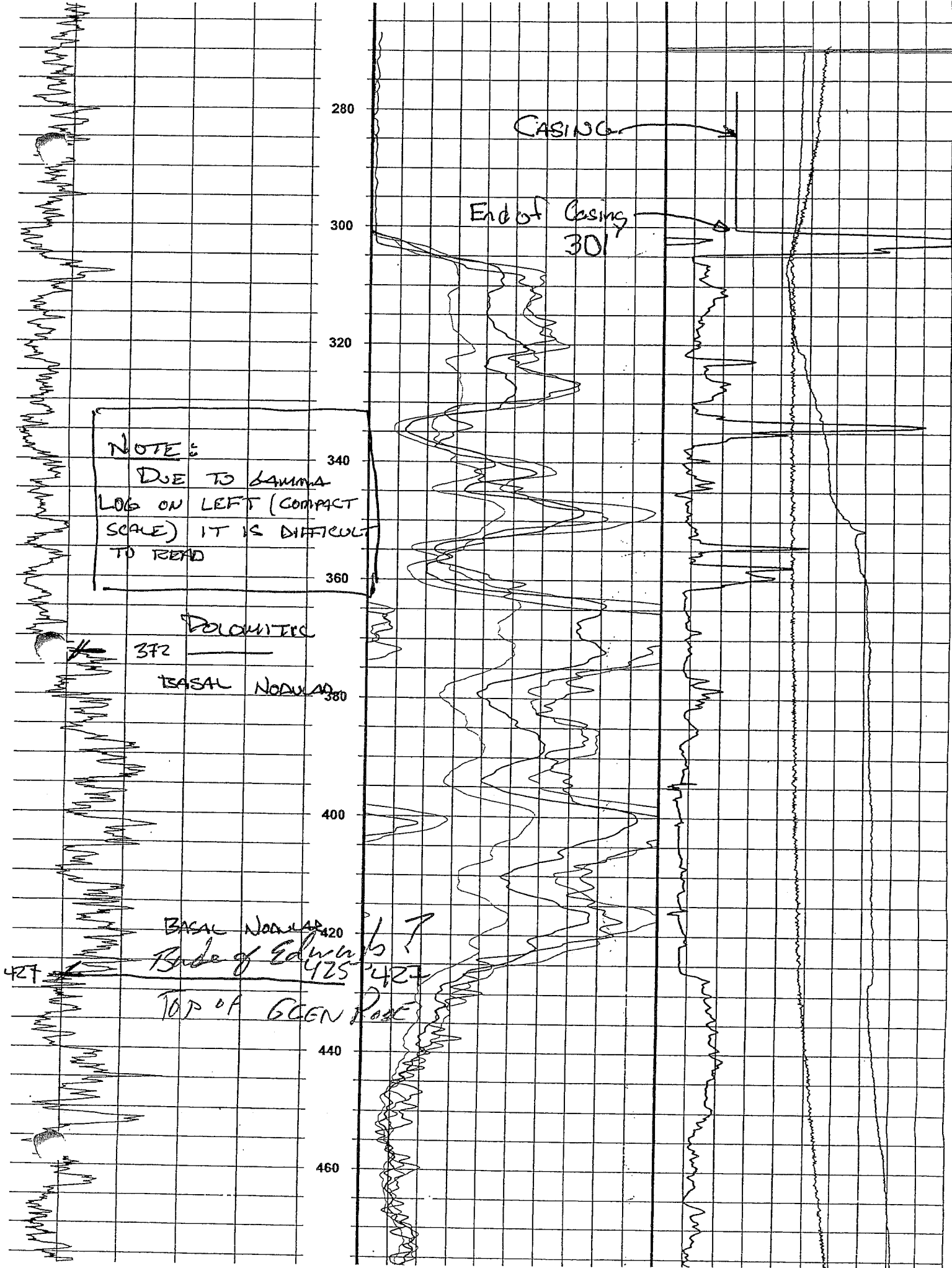
Witness: J. DELOUCHE, S. BELL

LOG TYPE	RUN NO	SPEED	FROM	TO	FT./IN.
GAMMA	2	18'	600'	207'	20'
RESISTIVITY, FL & TEMP	2	18'	604'	265'	20'
CALIPER	1	18'	604'	280'	20'

Comments:





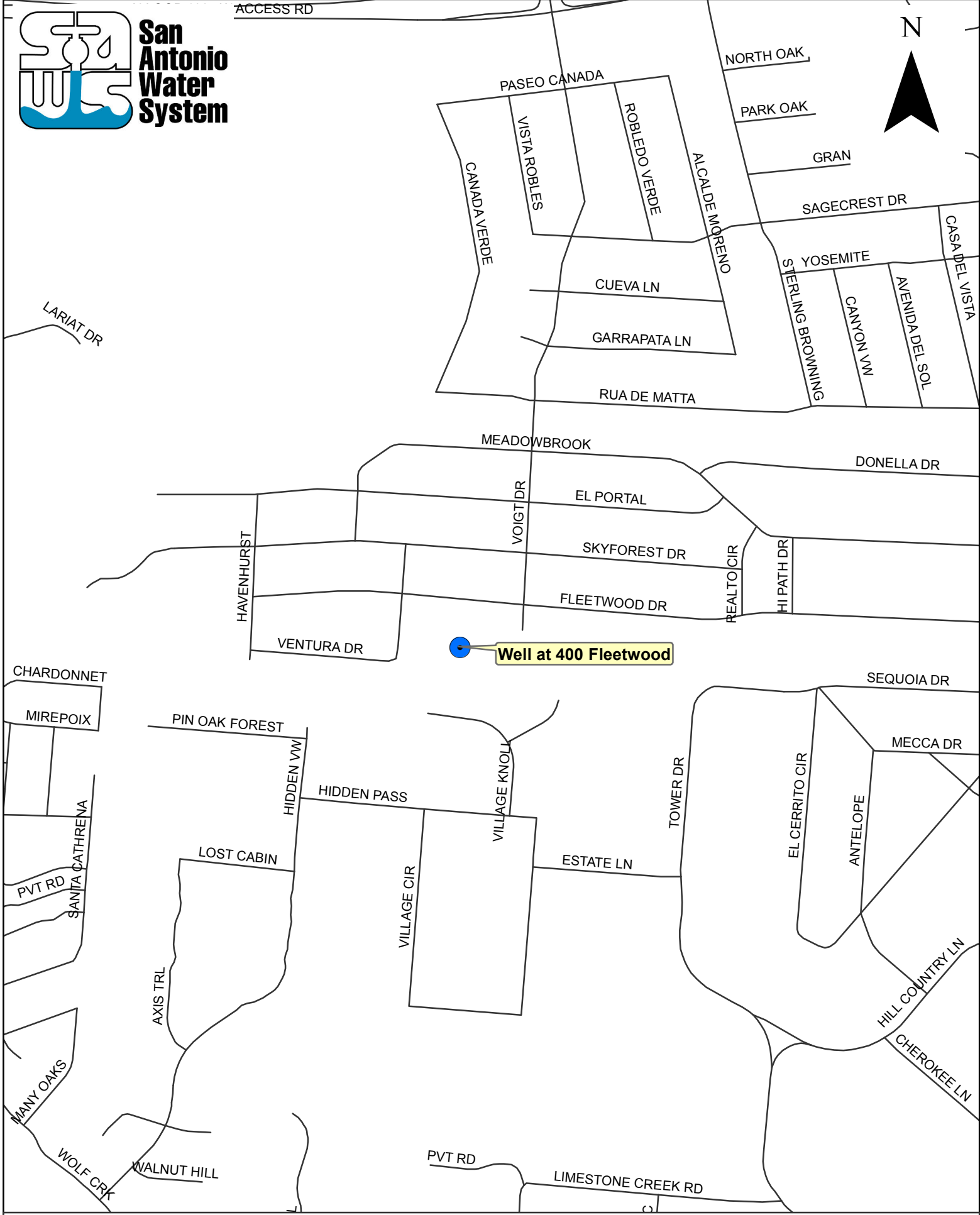






**San Antonio Water System**

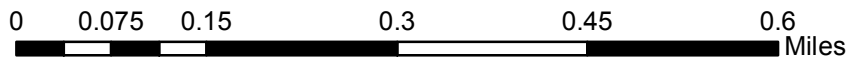
ACCESS RD



**Well at 400 Fleetwood**



**Edwards Well to be plugged**



**Well at 19260 Somerset Rd.**

2. Work includes mobilization, setting gravel in well screen interval, cementing the well casing via pressure cementing from the top of the gravel to the surface, demolition of headwork's to include removing cement pad and cutting casing off 5 feet below surface grade. Obtain a San Antonio Water System Plugging Permit prior to plugging well.

**Well at 19260 Somerset Rd**

Date Drilled – 1972

Total Depth – 400 feet

Well screen interval – from 250 feet to 400 feet below land surface

Casing interval – from surface to 400 feet below land surface

Well screen diameter – 8 inches from 250 feet to 400 feet below land surface (Perforated casing)

Casing Diameter – 8.625 inches from surface to 400 feet below land surface

Water Level – NA

\*SAWS will log well prior to plugging (Map Attached)

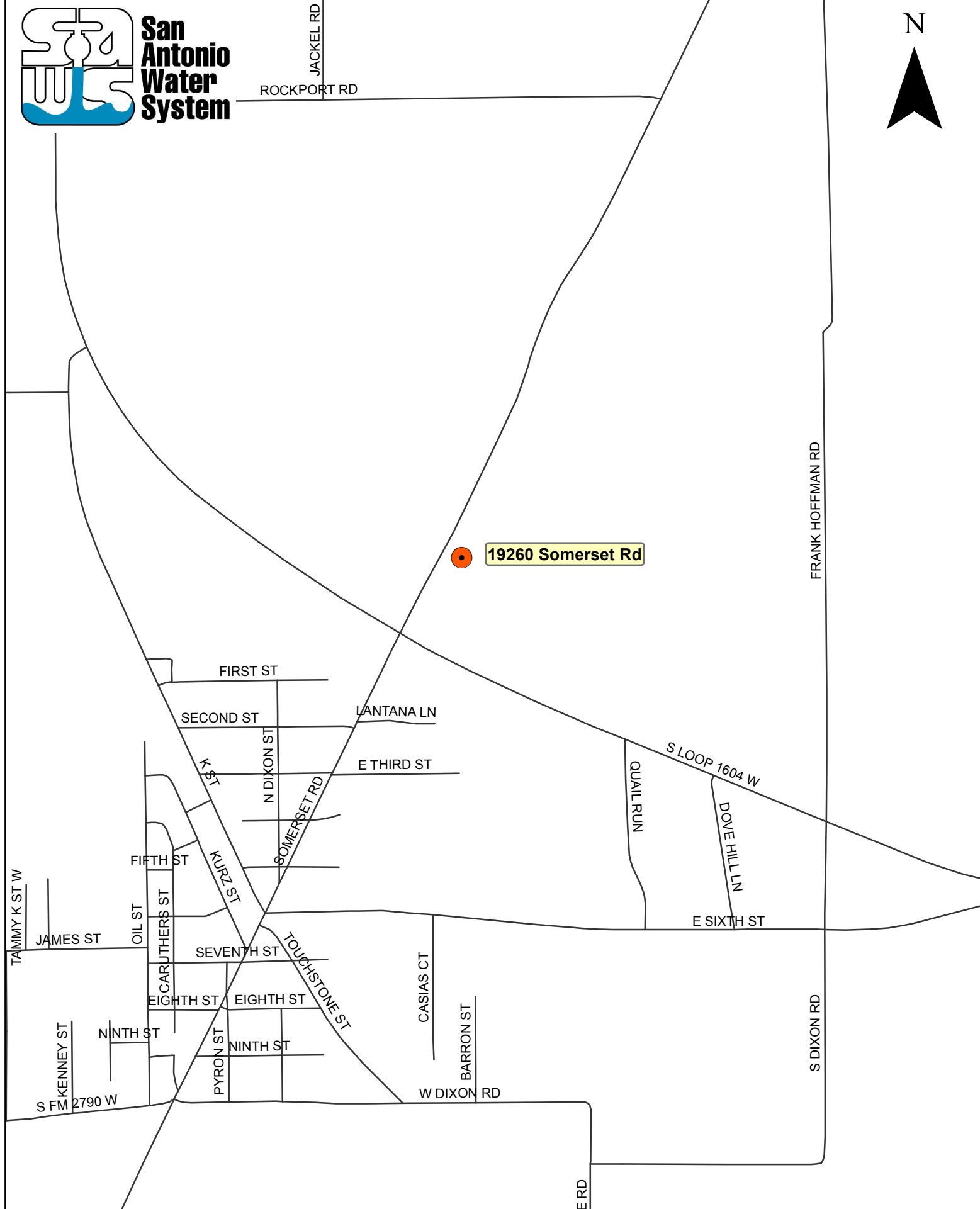


**San Antonio Water System**



JACKEL RD  
ROCKPORT RD

● 19260 Somerset Rd



● Carrizo Well to be plugged

0 0.075 0.15 0.3 0.45 0.6 Miles

## Well 078WP2 – 26803Harmony Hills

3. Work includes mobilization, removing and disposing of pump and column pipe, setting gravel in the well scree interval, cementing the well casing via pressure cementing from the top of the gravel to the surface, demolition of headwork's to include removing cement pad and cutting casing off 5 feet below surface grade. Obtain a San Antonio Water System and Trinity Glen Rose Groundwater Conservation District Plugging Permit prior to plugging well.

### Well 078WP2 – 26803 Harmony Hills

Date Drilled – 2007

Total Depth – 700 feet

Column Pipe – 8 inches to 600 feet below land surface with submersible pump( motor unknown size)

Casing screen interval – 380 feet to 700 feet below land surface

Casing – from surface to 380 feet below land surface

Well screen diameter – 12 inches from 380 feet to 700 feet below land surface

Casing Diameter – 16 inches from surface to 400 feet below land surface

Water Level – estimate 360 feet below land surface

\*SAWS will log well prior to plugging (Map Attached)



## Well 076WP1 – 26802 Harmony Hills

4. Work includes mobilization, setting gravel in the open Trinity formation to 10 feet below the casing, cementing the well casing via pressure cementing from the top of the gravel to the surface, demolition of headwork's to include removing cement pad and cutting casing off 5 feet below surface grade. Obtain a San Antonio Water System and Trinity Glen Rose Groundwater Conservation District Plugging Permit prior to plugging well.

### Well 076WP1 – 26802 Harmony Hills

Date Drilled – 1985

Total Depth – 650 feet

Casing – from surface to 320 feet below land surface

Open Hole – 7 inches from 320 feet to 650 feet below land surface

Casing Diameter – 7 inches from surface to 320 feet below land surface

Water Level – estimate 360 feet below land surface

\*SAWS will log well prior to plugging (Map Attached)



## Well 077WP1 – 26802 Harmony Hills

5. Work includes mobilization, setting gravel in the open Trinity formation to 10 feet below the casing, cementing the well casing via pressure cementing from the top of the gravel to the surface, demolition of headwork's to include removing cement pad and cutting casing off 5 feet below surface grade. Obtain a San Antonio Water System and Trinity Glen Rose Groundwater Conservation District Plugging Permit prior to plugging well.

### Well 077WP1 – 26802 Harmony Hills

Date Drilled – 1983

Total Depth – 620 feet

Casing – from surface to 323 feet below land surface

Open Hole – 7 inches from 323 feet to 620 feet below land surface

Casing Diameter – 7 inches from surface to 323 feet below land surface

Water Level – estimate 360 feet below land surface

(Geophysical log available) Map Attached





**Well 075WP1 – 26975 Timberline Dr.**

6. Work includes mobilization, setting gravel in the open Trinity formation to 10 feet below the casing, cementing the well casing via pressure cementing from the top of the gravel to the surface, demolition of headwork's to include removing cement pad and cutting casing off 5 feet below surface grade. Obtain a San Antonio Water System and Trinity Glen Rose Groundwater Conservation District Plugging Permit prior to plugging well.

**Well 075WP1 – 26975 Timberline Dr.**

Date Drilled – 1977

Total Depth – 634 feet

Casing – from surface to 312 feet below land surface

Open Hole – 7 inches from 312 feet to 634 feet below land surface

Casing Diameter – 7 inches from surface to 312 feet below land surface

Water Level – estimate 360 feet below land surface

(Geophysical log available) Map Attached



**Well 075WP2 – 26975 Timberline Dr.**

7. Work includes mobilization, setting gravel in the open Trinity formation to 10 feet below the casing, cementing the well casing via pressure cementing from the top of the gravel to the surface, demolition of headwork's to include removing cement pad and cutting casing off 5 feet below surface grade. Obtain a San Antonio Water System and Trinity Glen Rose Groundwater Conservation District Plugging Permit prior to plugging well.

**Well 075WP2 – 26975 Timberline Dr.**

Date Drilled – 1979

Total Depth – 617 feet

Casing – from surface to 312 feet below land surface

Open Hole – 6.5 inches from 312 feet to 617 feet below land surface

Casing Diameter – 6.5 inches from surface to 312 feet below land surface

Water Level – estimate 360 feet below land surface

(Geophysical log available) Map Attached





**San Antonio Water System**

MOUNTAIN ECHO



FOSEL PASS ST

DUJET DR

CUERO

HARMONY HILLS

VIRGO LN

077WP1-26802 Harmony Hills

075WP1-26975 Timberline

078WP2-26803 Harmony Hills

075WP2-26975 Timberline

076WP1-26802 Harmony Hills

EAGLE PASS

TIMBERLINE DR

GOLDEN MORN

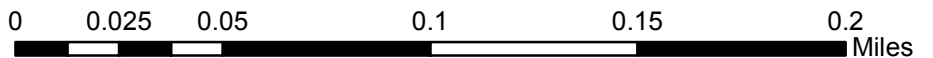
TRIXIE DR

MISTY WATER LN

PVT RD



**Trinity Wells to be plugged**



## **Well 080WP2 – 802 Bestway**

8. Work includes mobilization, removing and disposing of pump and column pipe, disassembling above ground piping, setting gravel in the open hole to 10 feet from the bottom of the casing, cementing the well casing via pressure cementing from the top of the gravel to the surface, demolition of headwork's to include removing cement pad and cutting casing off 5 feet below surface grade. Obtain a San Antonio Water System and Trinity Glen Rose Groundwater Conservation District Plugging Permit prior to plugging well.

### **Well 080WP2 – 802 Bestway**

Date Drilled – 1993

Total Depth – 700 feet

Column Pipe – 4 inches to 220 feet below land surface with submersible pump( motor unknown size)

Casing – from surface to 250 feet below land surface

Open Hole – 8.74 inches from 250 feet to 700 feet below land surface

Casing Diameter – 8.625 inches from surface to 250 feet below land surface

Water Level – estimate 380 feet below land surface

\*SAWS will log well prior to plugging (Map Attached)





**San Antonio Water System**

WOODED ACRES

N



WOOD CHUCK

S GLENROSE RD

QUIET DR

BEST WAY

MAGIC VW

**080WP2 802 Bestway**



POCO PASS

ADOBE WELLS

SUNNY MEADOW

CLOUD HAWK

WISHING WELL

SLUMBER PASS

SLUMBER PASS

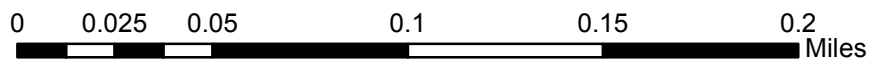
WISHING WELL

WHITE EAGLE DR

STARLITE WAY



**Trinity Well to be plugged**



## **Well 048WP4 - 4551 Oak South (Atascosa County)**

9. Work includes mobilization, setting gravel in well screen interval, cementing the well casing via pressure cementing from the top of the gravel to the surface, demolition of headwork's to include removing cement pad and cutting casing off 5 feet below surface grade. Obtain a San Antonio Water System Plugging Permit prior to plugging well.

### **Well 048WP4 - 4551 Oak South**

Date Drilled – 1996

Total Depth – 710 feet

Well screen interval – from 611 feet to 710 feet below land surface

Casing interval – from surface to 611 feet below land surface

Well screen diameter – 10 inches from 611 feet to 710 feet below land surface

Casing Diameter – 10 inches from surface to 611 feet below land surface

Water Level – 193

(Geophysical log available) Map Attached



**Well 045WP3 - 4370 Palo Alto (Atascosa County)**

10. Work includes mobilization, setting gravel in well screen interval, cementing the well casing via pressure cementing from the top of the gravel to the surface, demolition of headwork's to include removing cement pad and cutting casing off 5 feet below surface grade. Obtain a San Antonio Water System Plugging Permit prior to plugging well.

**Well 045WP3 - 4370 Palo Alto**

Date Drilled – 1996

Total Depth – 708 feet

Well screen interval – from 300 feet to 708 feet below land surface

Casing interval – from surface to 300 feet below land surface

Well screen diameter – 10 inches from 300 feet to 708 feet below land surface

Casing Diameter – 10 inches from surface to 300 feet below land surface

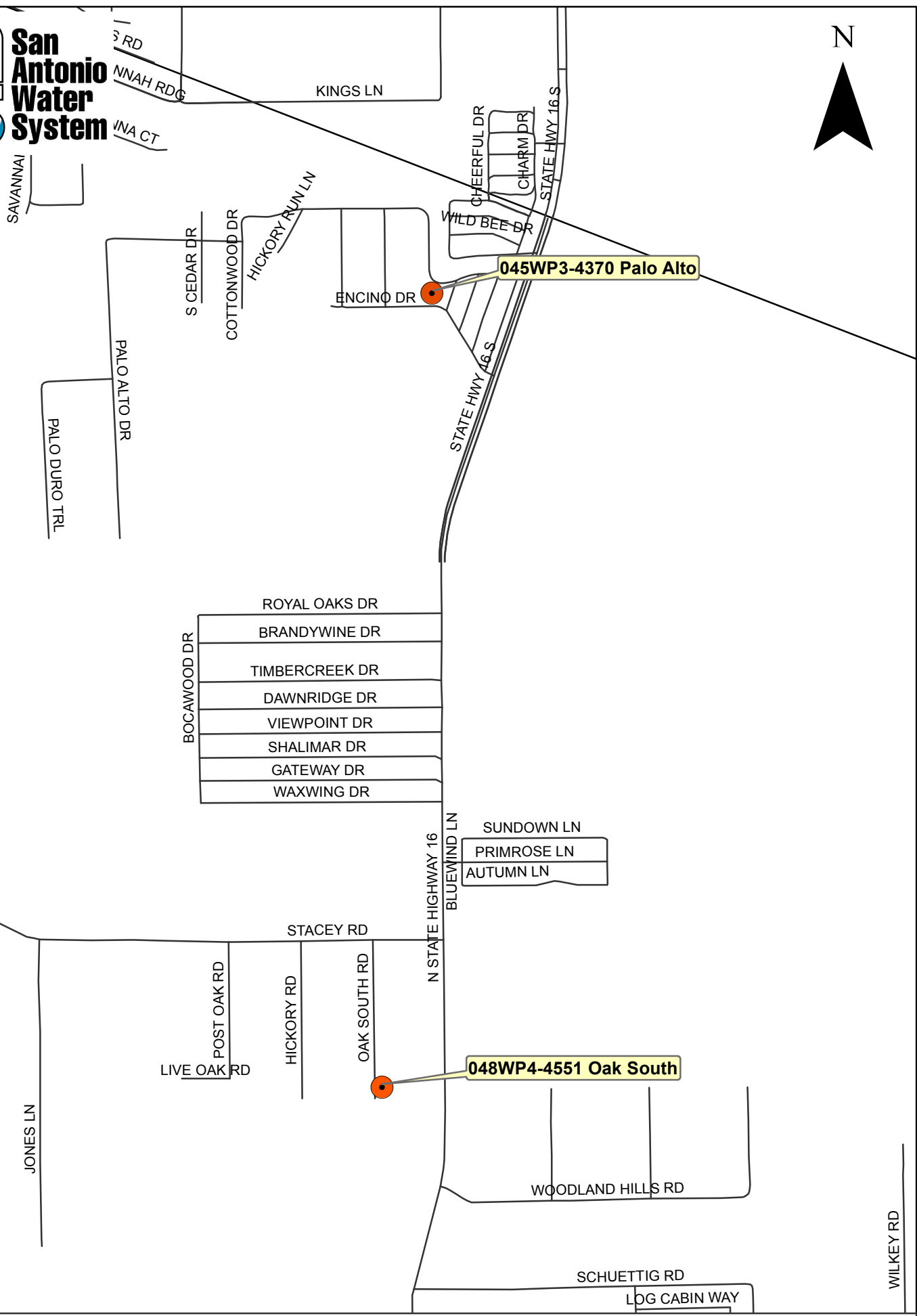
Water Level – NA

(Geophysical log available) Map Attached

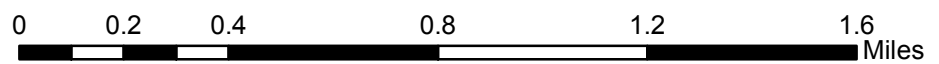




**San Antonio Water System**



**Carrizo Wells to be plugged**





## **Wells 100WP1 and 100WP2 - 1390 IH 35 South**

11. Work includes mobilization, removing and disposing of pump and column pipe, cementing the well casing via pressure cementing from the bottom of the well to the surface, demolition of headwork's to include removing cement pad and cutting casing off 5 feet below surface grade. Obtain a San Antonio Water System Plugging Permit prior to plugging well.

### **100WP1 - 1390 IH 35 South**

Date Drilled – 1972

Total Depth – 62 feet

Column Pipe – 2 inch unknown depth

Well screen interval – from 33 feet to 62 feet below land surface (estimated)

Casing interval – from surface to 33 feet below land surface (estimated)

Well screen diameter – 7 inches

Casing Diameter – 7 inches

Water Level – NA

### **100WP2 - 1390 IH 35 South**

Date Drilled – 1972

Total Depth – 65 feet

Column Pipe – 2 inch unknown depth

Well screen interval – from 33 feet to 65 feet below land surface (estimated)

Casing interval – from surface to 33 feet below land surface (estimated)

Well screen diameter – 7 inches

Casing Diameter – 7 inches

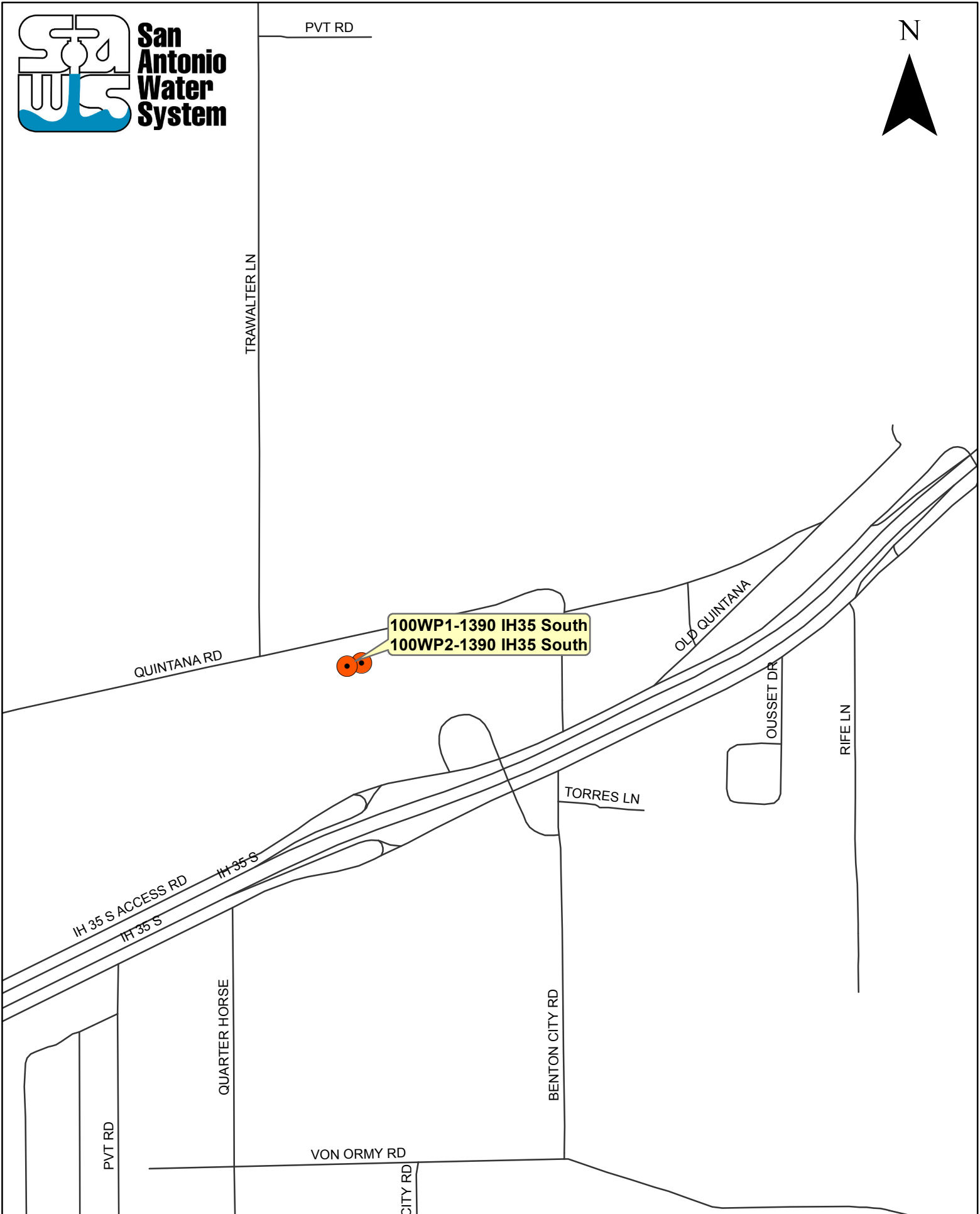
Water Level – NA

Map Attached

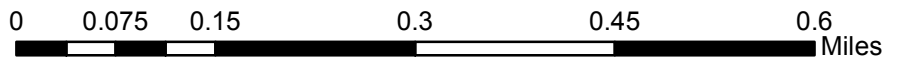




**San Antonio Water System**



**Carrizo Wells to be plugged**



## **Well 049WP3 - 2111 Silver Mountain**

12. Work includes mobilization, setting gravel in well screen interval, cementing the well casing via pressure cementing from the top of the gravel to the surface, demolition of headwork's to include removing cement pad and cutting casing off 5 feet below surface grade. Obtain a San Antonio Water System Plugging Permit prior to plugging well.

### **Well 049WP3 - 2111 Silver Mountain**

Date Drilled – 1996

Total Depth – 580 feet

Well screen interval – from 446 feet to 580 feet below land surface

Casing interval – from surface to 446 feet below land surface

Well screen diameter – 10 inches from 446 feet to 580 feet below land surface

Casing Diameter – 10 inches from surface to 446 feet below land surface

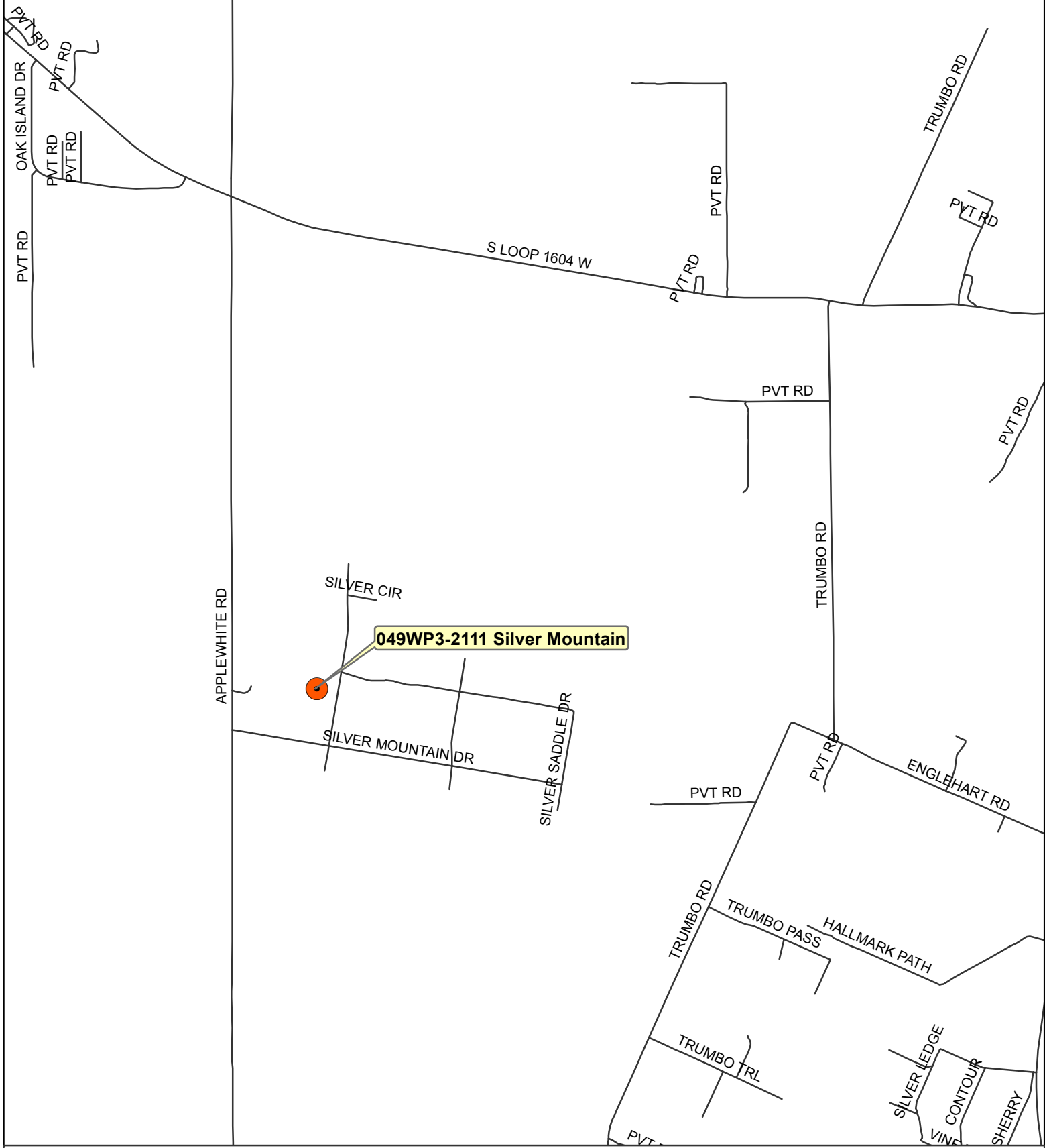
Water Level – NA

Geophysical log available ( ) Map Attached





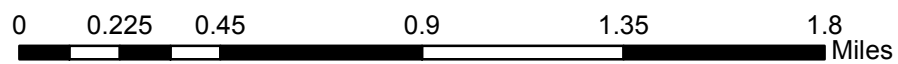
**San Antonio Water System**



**049WP3-2111 Silver Mountain**



**Carrizo Well to be plugged**



## **Well 171WP1 – 4317 Mansion**

13. Work includes mobilization, cementing the well via pressure cementing from the bottom of the well to the surface, demolition of headwork's to include removing cement pad and cutting casing off 5 feet below surface grade. Obtain a San Antonio Water System Plugging Permit prior to plugging well.

## **Well 075WP2 – Timberline**

Date Drilled – NA

Total Depth – 60 feet

Casing – from surface to 60 feet below land surface

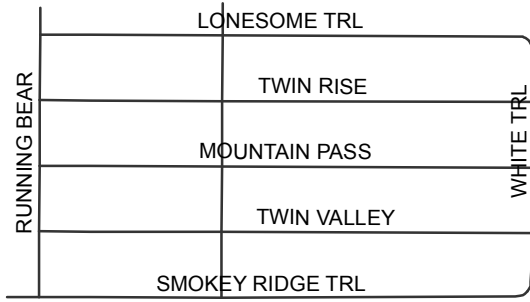
Water Level – Dry hole

Map Attached





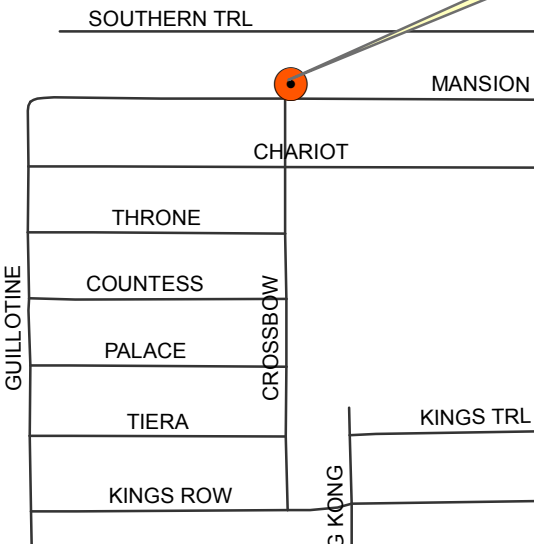
**San Antonio Water System**



STATE HWY 16 S  
STATE HWY 16 S

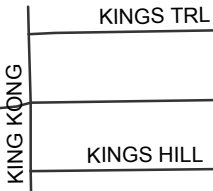
W JETT RD

**171WP1-4317 Mansion**

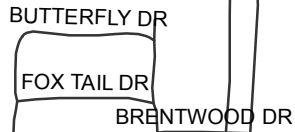


PVT RD

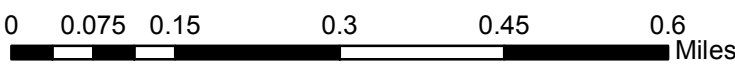
KINGS LN



PVT RD



**Carrizo Well to be plugged**



## Well 124WP1 – 1465 CR 381 (Medina County)

14. Work includes mobilization, perforating casing every 50 feet or as directed by the Edwards Aquifer Authority, setting gravel in the open Edwards formation to 10 feet below the casing, cementing the well casing via pressure cementing from the top of the gravel to the surface, demolition of headwork's to include removing cement pad, removing fence and cutting casing off 5 feet below surface grade. Obtain a San Antonio Water System and Edwards Aquifer Authority Plugging Permit prior to plugging well.

### Well 124WP1 – 1465 CR 381 (Medina County)

Date Drilled – NA

Total Depth – 547 feet

Casing – from surface to 482 feet below land surface

Open Hole – 10.25 inches from 482 feet to 547 feet below land surface

Casing Diameter – 10.25 inches from surface to 482 feet below land surface

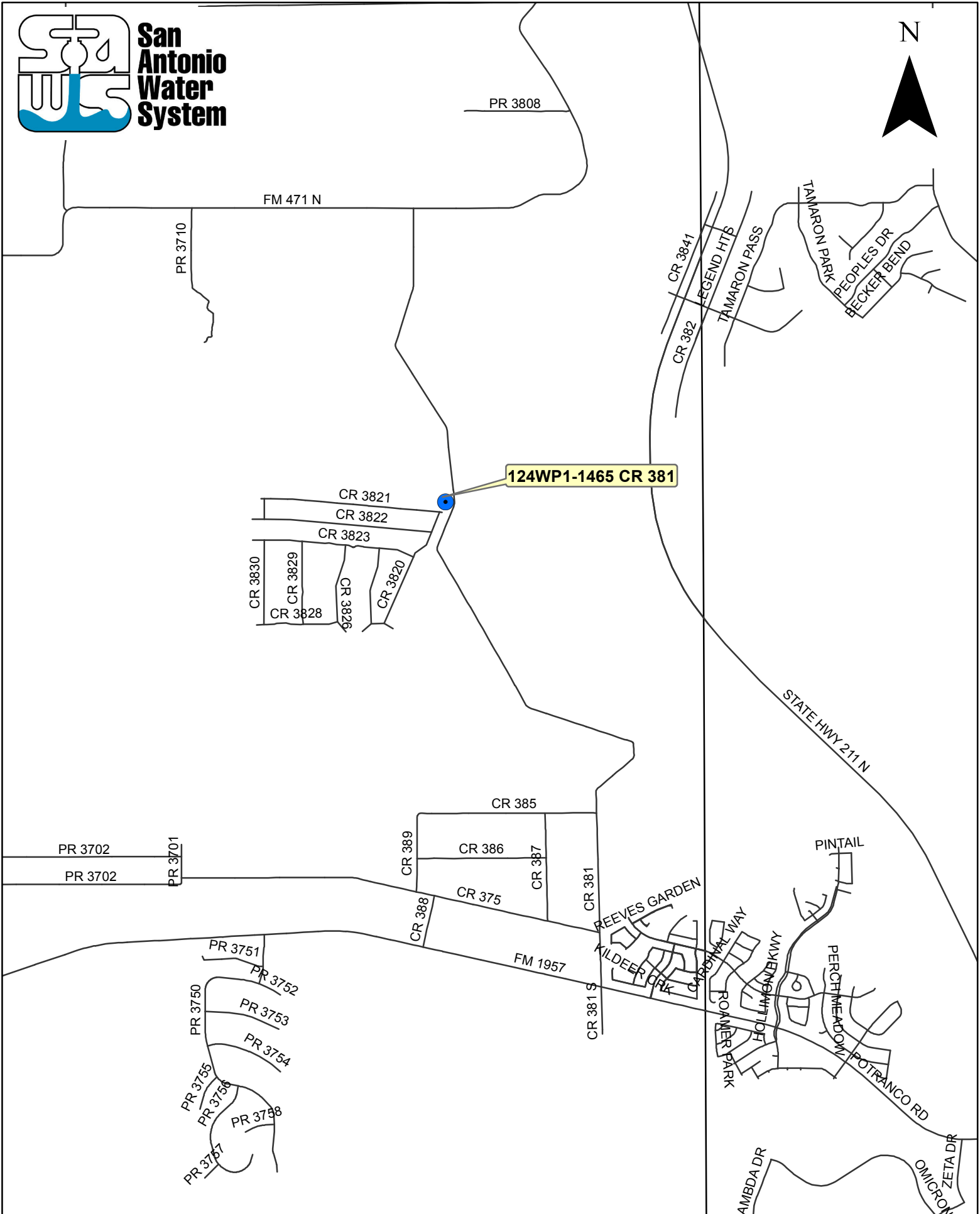
Water Level – 307 feet below land surface (8/8/13)

(Geophysical log available) Map Attached



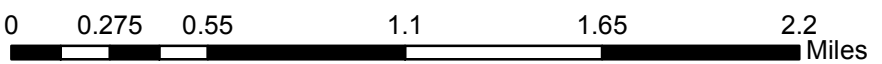


**San Antonio Water System**



**124WP1-1465 CR 381**

 **Edwards Well to be plugged**





## Well 097WP1 – 13678 Remuda Ranch

15. Work includes mobilization, setting gravel in the open Edwards formation to 10 feet below the casing, cementing the well casing via pressure cementing from the top of the gravel to the surface, demolition of headwork's to include removing cement pad and cutting casing off 5 feet below surface grade. Obtain a San Antonio Water System and Edwards Aquifer Authority Plugging Permit prior to plugging well.

### Well 097WP1 – 13678 Remuda Ranch

Date Drilled – 1998

Total Depth – 800 feet

Casing – from surface to 469 feet below land surface

Open Hole – 16 inches from 469 feet to 800 feet below land surface

Casing Diameter – 12.5 inches from surface to 469 feet below land surface

Water Level – 285 feet below land surface (10/23/12)

(Geophysical log available) Map Attached



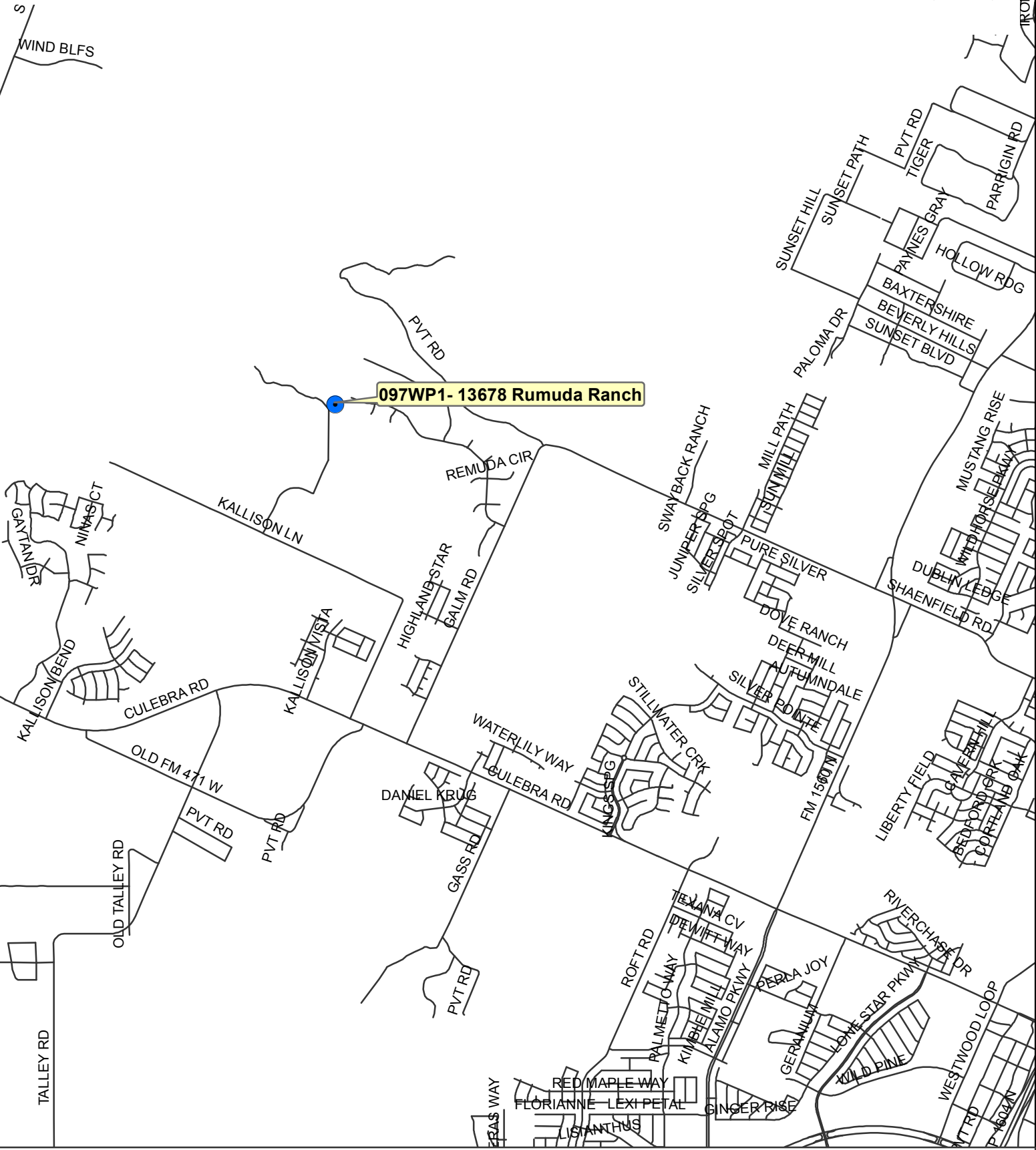


**San Antonio Water System**



S  
WIND BLFS

**097WP1- 13678 Rumuda Ranch**



**Edwards Well to be plugged**

