



# WATER-RIGHT DOCKET

## Tuzigoot National Monument

Docket No: 1

### HEADQUATER'S WATER SYSTEM

#### Preliminary Docket Information

01-08-1976: docket information sheet

WATER RESOURCES/WATER RIGHT

DATE: January 8, 1976

#### WATER RIGHT/SOURCE DOCKET INFORMATION

REGION Western AREA Tuzigoot National Monument  
SITE Headquarters Water System  
STATE Arizona COUNTY Yavapai DOCKET NO WR #1  
LOCATION NW 1/4 Section 22, Township 16 N, Range 3 E  
REGIONAL BASIN \_\_\_\_\_ LOCAL BASIN \_\_\_\_\_  
ACQUIRED BY Reservation  
APPLICATION \_\_\_\_\_ PERMIT \_\_\_\_\_ CERTIFICATE \_\_\_\_\_  
ACTION DUE \_\_\_\_\_ PRIORITY \_\_\_\_\_ RESERVATION July 25, 1939  
QUANTITY USED: \_\_\_\_\_ USE Domestic (10 gpm) + MUNICIPAL  
STATUS Active SOURCE Groundwater

REMARKS Hydrologic Unit #15060202

#### NARRATIVE:

Tuzigoot National Monument is located two miles east of Clarkdale, Arizona. It was established by presidential proclamation on July 25, 1939 to protect the excavated ruins of a large Indian pueblo which thrived in the Verde Valley between 1000 and 1400 A.D. On March 17, 1952, a well 313 feet deep was drilled in the monument (production from 265' to 280'). The water is used as a domestic and municipal supply for the monument. The water level in the well in 1964 was 120 feet below land surface datum. During the same year the Park Service had three residences, sewer, water and electrical systems constructed in the monument. This water right covers a ground water source and therefore there have been no filings made with the State of Arizona.

Compiled by M. Ackerman

Approved by W. Werrell

Page 1 of 1

**WATER DOCKET INFORMATION**

**AREA** TUZIGOOT N.M.

**DOCKET NO.** 1

**APPLICATION NO.** \_\_\_\_\_

**PERMIT NO.** \_\_\_\_\_

**CERTIFICATE NO.** \_\_\_\_\_

**TITLE OF DOCKET** TUZIGOOT HEADQUARTERS WATER SYSTEM

**PRIORITY** \_\_\_\_\_

**REMARKS:** \_\_\_\_\_  
\_\_\_\_\_

TU21 WR #1

NATIONAL PARK SERVICE  
WATER RIGHTS DATA SHEETOrganization  
Code 8700Docket  
Classification F 8 A  
Federal Reserved AlienDocket  
Number 07

Source Number 07 of 07

Card #1 1A 1C  
Add Change

Site H E A D Q U A R T E R S G A T E R S S Y S T E M

Location

1 Township/Range --- T 6 N R 3 E Sec 02 A B C D of A B C D  
Next Map Spd Spd2 Lat/Long --- Latitude deg min sec N S Longitude deg min sec  
Next Map Spd Spd

3 Other ---

Card #2 2A 2C  
Add ChangeSequence  
Number 01 State 09 County Y A V A P A TAcquired by 1 2 3 4 5  
Purchase Appropriation Riparian Reservation Other  
(Explain in Remarks)Application  
Number Cancellation Date year month dayPermit  
Number Cancellation Date year month dayCertificate  
Number Cancellation Date year month day

|                        |                                                                           |           |      |              |
|------------------------|---------------------------------------------------------------------------|-----------|------|--------------|
| Card #3                | 3A                                                                        | 3C        | Add  | Change       |
| Status                 | Active                                                                    | Inactive  |      |              |
| Water System           | P                                                                         | S         |      |              |
| Primary                |                                                                           | Secondary |      |              |
| Type of Source         | L                                                                         | R         | S    |              |
| Lake                   | River                                                                     | Spring    | Well |              |
| Legal Source           |                                                                           |           |      | S            |
| Surface Water          |                                                                           |           |      | Ground Water |
| Priority               |                                                                           |           |      |              |
| Quantity Used          |                                                                           |           |      |              |
| Quantity Vested        |                                                                           |           |      |              |
| Quantity               |                                                                           |           |      |              |
| Used                   |                                                                           |           |      |              |
| Use of Water           |                                                                           |           |      |              |
| Primary                |                                                                           |           |      |              |
| Secondary              |                                                                           |           |      |              |
| Reservation Date       | 9                                                                         | 3         | 9    | 0            |
| Date                   | 7                                                                         | 2         | 5    |              |
| Year                   |                                                                           |           |      |              |
| Month                  |                                                                           |           |      |              |
| Day                    |                                                                           |           |      |              |
| Hydrologic Unit Number | 1                                                                         | 5         | 0    | 6            |
| Unit                   | 2                                                                         | 0         | 2    | 0            |
| Number                 | 2                                                                         | 0         | 2    | 0            |
| Remarks                | SERVICES THARRE REES IDEWES, SEWER, WATER, AND ELECTRICITY. THE MONUMENT. |           |      |              |
| Card #4                | 4A                                                                        | 4C        | Add  | Change       |
| Card #5                | 5A                                                                        | 5C        | Add  | Change       |
| Card #6                | 6A                                                                        | 6C        | Add  | Change       |
| Card #7                | 7A                                                                        | 7C        | Add  | Change       |

State Water Rights Documentation

# STATEMENT OF CLAIMANT FORM FOR OTHER USES<sup>1</sup>

File No. 39-  
Date Filed:  
WFN

## VERDE RIVER WATERSHED SUPERIOR COURT OF MARICOPA COUNTY

1. Claimant Name: United States of America, c/o National Park Service (Tuzigoot National Monument)  
 Claimant Address: Box 36036, 450 Golden Gate Avenue City San Francisco  
 State: California Zip Code 94102 Telephone (415) 556-8660
2. Basis of Claim:
  - A. ☐ Appropriation Right acquired prior to June 12, 1919. 1974 Water Rights Registration Act Registry No. \_\_\_\_\_
  - B. ☐ Appropriation Right acquired after June 12, 1919. Application No. \_\_\_\_\_  
 Permit No. \_\_\_\_\_, or Certificate of Water Right No. \_\_\_\_\_
  - C. ☐ Decreed water right. Principal litigants, court, date and case no.: \_\_\_\_\_
  - D. ☒ Right to withdraw groundwater. Reg #55-629092 File #A(16-3) 22bcc
  - E. ☐ Other, describe: \_\_\_\_\_
3. Claimed Priority Date: March 18, 1952 (month/day/year)
4. Use:
 

|                                                                                                                                                                                                                         |                                                                                                                                              |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| A. <input checked="" type="checkbox"/> Municipal<br>B. <input type="checkbox"/> Commercial or Industrial<br>C. <input type="checkbox"/> Mining<br>D. <input type="checkbox"/> Stockwatering other than from a stockpond | E. <input type="checkbox"/> Recreation, Fish & Wildlife<br>F. <input checked="" type="checkbox"/> Other, describe:<br><u>Fire protection</u> |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
5. Source of Water:
  - A. ☐ Stream: name \_\_\_\_\_, tributary to \_\_\_\_\_
  - B. ☐ Spring: name \_\_\_\_\_, tributary to \_\_\_\_\_
  - C. ☐ Lake or Reservoir: name \_\_\_\_\_, tributary to \_\_\_\_\_
  - D. ☒ Groundwater
6. Legal description of the Point of Diversion: (attach additional sheet if required)  
SW 1/4, SW 1/4, NW 1/4, Section 22, Township 16 N/S, Range 3 E/W
7. If there are Irrigation, Domestic or Stockpond uses also supplied from the Point of Diversion, describe: \_\_\_\_\_
8. Means of Diversion:
  - A. ☐ Instream pump
  - B. ☐ Gravity flow into ditch, canal or pipeline.
  - C. ☐ Well: Arizona State Land Department, Arizona Water Commission or Arizona Department of Water Resources Intent to Drill File No. A (16-3) 22bcc
  - D. ☐ Other, describe: \_\_\_\_\_

<sup>1</sup> See Instructions for explanation of uses in this category

## 9. Means of Conveyance:

A. ☐ Ditch, canal or pipeline. If the means of conveyance is owned and/or operated by some other entity, please give name and address: \_\_\_\_\_

B. ☐ Other, describe: \_\_\_\_\_

## 10. Place of Use, if other than point of diversion: (attach additional sheet if required)

County N/A

| Legal Subdivision | Section | Township | Range    |
|-------------------|---------|----------|----------|
| _____             | _____   | _____N/S | _____E/W |
| _____             | _____   | _____N/S | _____E/W |

## 11. Claimed Right:

A. Maximum Flow Rate: 40 ☐ cubic-feet per second  
☒ gallons per minute  
☐ Arizona miner's inches

B. Annual Volume of Water Use: \_\_\_\_\_ acre-feet

C. Storage Right: \_\_\_\_\_ acre-feet

## 12. Attach photographs, maps or sketches necessary to show the point of diversion, storage reservoir(s), place(s) of use and means of conveyance.

13. It may be necessary for a representative from the Department of Water Resources to inspect the diversion, conveyance and place of use. Your signature following will grant permission to enter your property for the purpose of inspection: Signature of Claimant Bruce M. Kilgore, Chief, Div. of Nat. Res. & Research  
Western Regional Office

14. Should it be necessary for a representative of the Department to contact you as the claimant or your representative, are there any special instructions regarding time of day or address to aid in locating the specified person? Regular work days, (415) 556-1036

## 15. Attach Filing Fee to Form. Mail form(s) and fee(s) to: Department of Water Resources, P.O. Box 2920, Phoenix, AZ 85062.

## 16. Additional comments: \_\_\_\_\_

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

(attach additional sheet if required)

## 17. Notarized Statement:

I/We, Bruce M. Kilgore on behalf of the National Park Service

the claimant(s) named in this claim, do hereby certify under penalty of perjury, that the information contained and statements made herein are to the best of my(our) knowledge and belief true, correct and complete.

(seal)

My Commission Expires:

Notary Public

or

Authorized Personnel of the Department of Water Resources

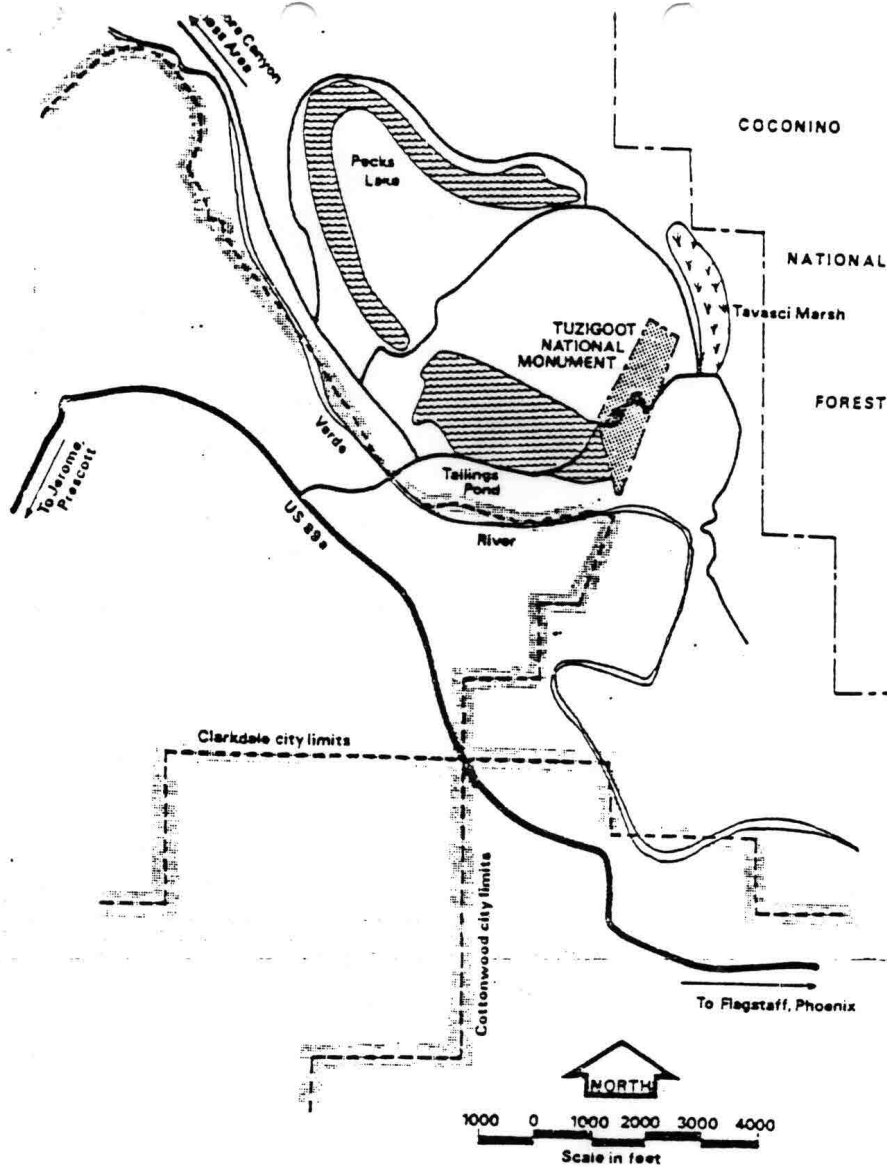


Fig 2. Vicinity Map

TUZI Exhibit #1

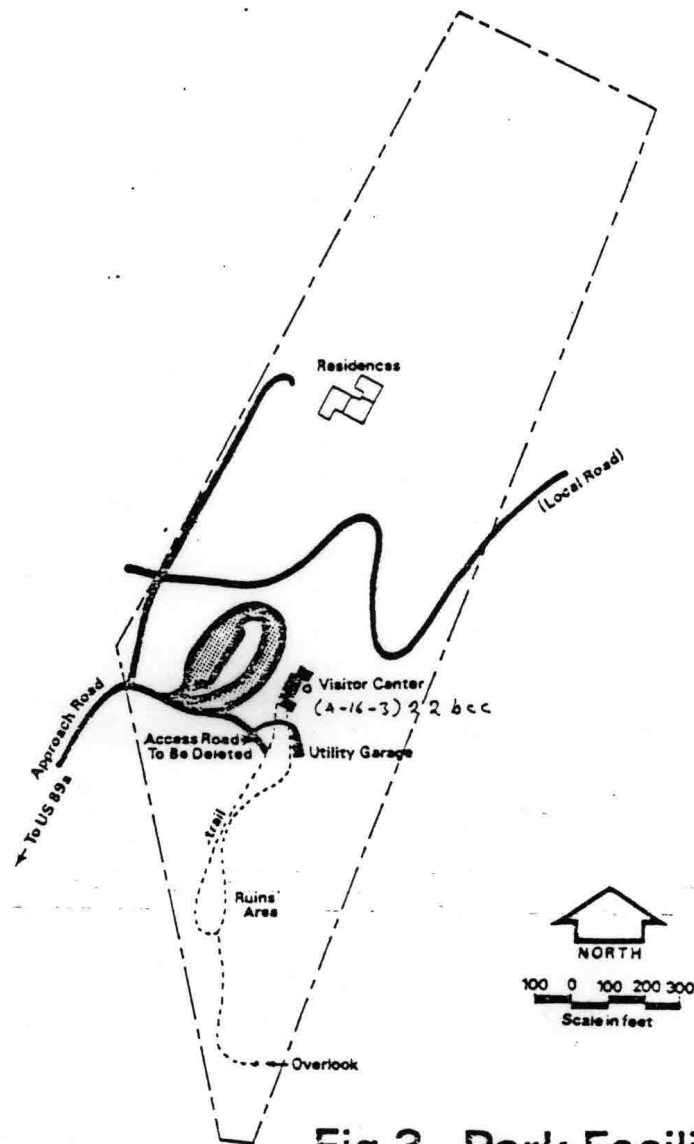
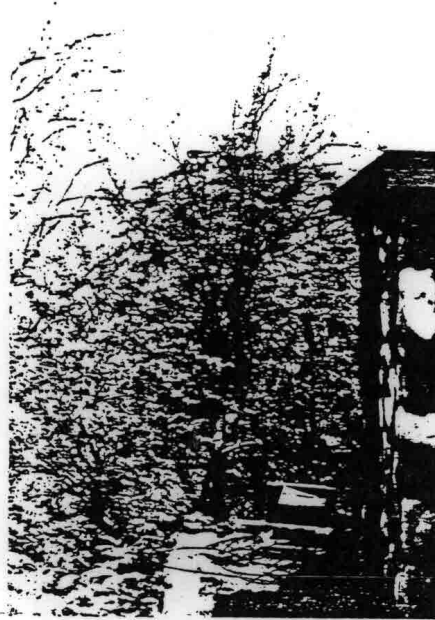


Fig 3. Park Facilities

Tuzigoot  
Well #(A-16-3) 22 bcc



Tuzigoot, Well #(A-16-3) 22 bcc, looking South.  
This well is located in well house at right.  
Ruins are located at top of the hill in back-  
ground.

TUZI EXHIBIT #3

W. Reed  
9/15/80

DEPARTMENT OF WATER RESOURCES  
99 EAST VIRGINIA AVENUE  
PHOENIX, ARIZONA 85004

**REGISTRATION OF EXISTING WELLS**

READ INSTRUCTIONS ON BACK OF THIS FORM BEFORE COMPLETING  
PRINT OR TYPE - FILE IN DUPLICATE

Declaration: The United States gives this  
of confity, and does not concede that the  
State has power to regulate the rights the  
the United States to the use of water.

REGISTRATION FEE (CHECK ONE)  
EXEMPT WELL (NO CHARGE) ☐  
NON-EXEMPT WELL - \$10.00 ☒



FOR OFFICE USE ONLY  
REGISTRATION NO. 55- 629092  
FILE NO. A(16-3) 226cc  
FILED 6-9-82 AT 1:30  
(DATE) (TIME)  
INA \_\_\_\_\_  
AMA \_\_\_\_\_

1. Name of Registrant:

National Park Service, Western Region, Division of Water Resources  
450 Golden Gate Avenue, Box 36063, San Francisco CA 94102  
(Address) (City) (State) (Zip)

2. File and/or Control Number under previous groundwater law:

35-  
(File Number) (Control Number)

3. a. The well is located within the SW  $\frac{1}{4}$  SW  $\frac{1}{4}$  NW  $\frac{1}{4}$ , Section 22,  
of Township 16 N N/S, Range 3 E E/W, G & SRB & M, in the  
County of Yavapai.

b. If in a subdivision: Name of subdivision \_\_\_\_\_  
Lot No. \_\_\_\_\_, Address \_\_\_\_\_

4. The principal use(s) of water (Examples: irrigation - stockwater - domestic - municipal - industrial)  
public supply, domestic, fire protection

5. If for irrigation use, number of acres irrigated from well \_\_\_\_\_

6. Owner of land on which well is located. If same as Item 1, check this box ☒

\_\_\_\_\_  
(Address) (City) (State) (Zip)

7. Well data (If data not available, write N/A)

a. Depth of Well 313 feet  
b. Diameter of casing 6 inches  
c. Depth of casing 153 feet  
d. Type of casing steel  
e. Maximum pump capacity 40 gallons per minute.  
f. Depth to water 127 feet below land surface.  
g. Date well completed March 18, 1952  
(Month) (Day) (Year)

8. The place(s) of use of water. If same as Item 3, check this box ☒.

NW  $\frac{1}{4}$  SW  $\frac{1}{4}$  NW  $\frac{1}{4}$ , Section 22 Township 16 N Range 3 E  
\_\_\_\_\_  $\frac{1}{4}$  \_\_\_\_\_  $\frac{1}{4}$  \_\_\_\_\_  $\frac{1}{4}$ , Section \_\_\_\_\_ Township \_\_\_\_\_ Range \_\_\_\_\_  
Tuzigoot National Monument

Attach additional sheet if necessary.

9. DATE JUN 3 1982 SIGNATURE OF REGISTRANT (Sgd) Gerard S. Witucki

GERARD S. WITUCKI  
CHIEF, DIVISION OF WATER RESOURCES

## CHANGE OF WELL INFORMATION

Registration Number 55 629092I request the following information be changed in Well File Number A(16-3)22 bec


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Date \_\_\_\_\_, 19\_\_\_\_ Signature of Well Owner \_\_\_\_\_

## STATEMENT OF CHANGE OF WELL OWNERSHIP

I, \_\_\_\_\_, state that I am (no longer) the (new) owner of the well described below:

Township \_\_\_\_\_ Range \_\_\_\_\_ Section \_\_\_\_\_, \_\_\_\_\_  $\frac{1}{4}$  \_\_\_\_\_  $\frac{1}{4}$  \_\_\_\_\_  $\frac{1}{4}$ 

Registration #55-\_\_\_\_\_ File No. \_\_\_\_\_

Previous Owner \_\_\_\_\_ New Owner \_\_\_\_\_

Address \_\_\_\_\_ Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_ City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

NOTE: ARS 45-593 requires that the Department be notified of change of well ownership and that the well owner is required to keep the Department's Well Registration records current and accurate. Well data and ownership changes must be submitted within 30 days after changes take place.

NOTE: SAVE THIS FORM TO REPORT FUTURE  
CHANGES IN OWNERSHIP OR WELL  
DATA SUCH AS PUMP CAPACITY, ETC.

G.W. ● Type Analysis A-1, no Fe soln. USGS CHEMICAL ANALYSIS  
 State Arizona County Yavapai Location Tuzigoot Nat'l. Monument - 16.3, 22.100 Account 05  
 Project 34

*Sheet #1*

Latitude-Longitude \_\_\_\_\_ Well No. \_\_\_\_\_ Date Collected 5/16/68

Source Tuzigoot Nat'l. Mon.. Box 68, Clarkdale, Ariz. Date Collected Apr. 1952 Source Deep well (nash/ra) 313 Name ra

pH..... 7.9 Temp. (°C) \_\_\_\_\_ Specific Conductance, micromhos at 25°C ..... 466

Hardness as CaCO<sub>3</sub>:  
 Total, mg/L ..... 214

Noncarbonate, mg/L. 0

Calc. r. 5 Sodium adsorption ratio..... 0.5

%Na..... 15 Tons per acre ft. ....

Density, g/ml at 20°C \_\_\_\_\_

W.B.F. Limestone

Producing intervals 265' to 280'

W.L. 120' below

Sampled after Pumping (Time) \_\_\_\_\_

Yield 167 GM bailer test

Point of Collection Visitor Center

Appearance Clear

Use Dom. Public Supply

Collected by Wm. G. Bimewies

Remarks: Core samples at Museum of Northern Arizona, Flagstaff.

Chemist STAFF Checked By EFW

Date Completed 6/18/68

Date Transmitted \_\_\_\_\_

Laboratory No. 63877

Silica (SiO<sub>2</sub>)..... 56

Calcium (Ca)..... 37

Magnesium (Mg)..... 30

Sodium (Na)..... 17

Potassium (K)..... 3.2

Na<sub>2</sub>O (calculated).....

Dissolved Iron (Fe)..... 0.00

Total Iron (Fe)..... 0.00

Concentrations in milligrams per liter (mg/L)

Bicarbonate (HCO<sub>3</sub>)..... 266

Carbonate (CO<sub>3</sub>)..... 0

Sulfate (SO<sub>4</sub>)..... 6.4

Chloride (Cl)..... 21

Fluoride (F)..... 0.2

Nitrate (NO<sub>3</sub>)..... 0.9

Boron (B)..... 0.11

Dissolved Solids: Sum of Constituents..... 303

Residue on Evaporation at 180°C..... 290

Provisional record, subject to revision.



61535

State ☐ County ☐ Lat. ☐ Long. ☐ Date ☐ Seq. No. ☐ Samp. depth ☐

Remarks:  
 Source: Deep well  
 DD: Apr. 1952  
 Depth: 313'  
 Producing intervals from: 265' to 280'  
 WL: 120' below  
 Yield: 167 GM - Bailer test  
 PC: Visitor Center  
 Use: Dom., Ps  
 Rmks: Core samples at museum of Northern Arizona, Flagstaff

|                           |          |    |    |    |
|---------------------------|----------|----|----|----|
| Br                        | _____ ml | 26 | 28 | 55 |
| I                         | _____ ml | 29 | 31 | 58 |
| Alk. as CaCO <sub>3</sub> |          | 32 | 35 | 61 |
| Free CO <sub>2</sub>      |          | 36 | 38 | 64 |
| SAR                       | 0.5      | 39 | 41 |    |
| RSC                       |          | 42 | 44 |    |
| Organics                  |          | 45 | 47 |    |
| MBAS (ABS)                | _____ ml | 48 | 50 |    |
|                           |          | 51 | 54 |    |

Other data (67-79)<sup>e</sup>

a Master card A (21-34)  
 b Master card A (52-66)  
 c Type:  
 1. Pumped 4. Spigot  
 2. Bucket 5. Bailer  
 3. Forest 6. Special  
 d. Source of data:  
 1. USGS 5. Industrial  
 2. UPHS 6. Private  
 3. State Health 7. Vocational  
 4. State

Chemist Richard L. Lepp E. F. WILLIAMS

Checked by \_\_\_\_\_

Date begun 21 1957 Date transmitted \_\_\_\_\_

Punched by \_\_\_\_\_ Verified \_\_\_\_\_

e Indicate constituent and card columns.

Card S

Transitional records, subject to revision.

G.W. Type Analysis A-1 + Total Fe U.S. GEOLOGICAL SURVEY ANALYTICAL NOTES Project NPS collector Harvey R. Lindley  
 State Arizona County Yavapai City (at or near) Clarkdale, 2 mi east, Ariz Well No. CA-16-3-17H (Supr. Tagged)  
 Latitude-Longitude \_\_\_\_\_ Well No. 16.3.22.100 NW 1/4 sec. Date Collected Apr. 14, 1965  
 Owner NPS, Tusigact, Clarkdale, Arizona Date Drilled Mar 24, 1965 Cased to \_\_\_\_\_ Depth (ft) 313 Diam. (in) \_\_\_\_\_

pH 8.1 Temp (°F) \_\_\_\_\_  
 Hardness as CaCO<sub>3</sub> 214 214  
 Total \_\_\_\_\_  
 Noncarbonate 01 0  
 Color 3 S.A.R. 0.5 0.5  
 % Na 14 14 T/ot 0.39 0.39  
 Density (g/ml) \_\_\_\_\_  
 W.B.F. Limestone  
 Producing intervals 262 to 271 ft.  
 W.L. 120 ft below surface  
 Sampled after Pumping (Time) 24' draw down  
 Yield 1000 ± 16.7 gpm pump meas.  
 Point of Collection Hydrant in office  
 Appearance Clear  
 Use Dom.  
 Remarks: \_\_\_\_\_  
 Chemist KO Checked By RLW  
 Date Completed APR 29 1965  
 Date Transmitted \_\_\_\_\_  
 Laboratory No. 756767

| Spec. Cond. (micromhos at 25°C): T <u>245</u> R <u>341</u> R Sample <u>733</u> <u>465</u> <u>465</u> |                                                         | PPM | EPM |
|------------------------------------------------------------------------------------------------------|---------------------------------------------------------|-----|-----|
| Silica                                                                                               | f <u>546</u> vol <u>10</u> <u>61</u>                    |     |     |
| o.d.                                                                                                 | <u>1.182</u> <u>615</u> <u>615</u>                      |     |     |
| Calcium                                                                                              | <u>4.67</u> <u>2.40</u> EPM TH <u>4.28</u>              |     |     |
| vol <u>25</u>                                                                                        | <u>1.78</u>                                             |     |     |
| Magnesium                                                                                            | <u>1330</u> <u>2.60</u> <u>36</u> <u>36</u> <u>1.80</u> |     |     |
| vol <u>50</u>                                                                                        | <u>10.70</u>                                            |     |     |
| Sodium                                                                                               | vol <u>25-50</u> <u>8.19</u> <u>16</u> <u>0.70</u>      |     |     |
| 0-10 range                                                                                           | <u>8.19</u>                                             |     |     |
| Spec. Cond. <u>500</u> <u>8.19</u>                                                                   |                                                         |     |     |
| Potassium                                                                                            | vol <u>25-50</u> <u>23.5</u> <u>4.7</u> <u>0.12</u>     |     |     |
| 0-10 range                                                                                           | <u>23.5</u>                                             |     |     |
| Na + K (Calculated)                                                                                  |                                                         |     |     |
| Iron                                                                                                 | f <u>1.97</u> vol <u>25</u>                             |     |     |
| In sol.: o.d.                                                                                        |                                                         |     |     |
| Total: o.d.                                                                                          | <u>0.005</u> <u>0.01</u> <u>0.01</u>                    |     |     |
| TOTAL CATIONS                                                                                        | <u>5.10</u>                                             |     |     |
| Bicarbonate                                                                                          | <u>2230</u> <u>4.10</u> <u>264</u> <u>4.33</u>          |     |     |
| vol <u>50</u>                                                                                        | <u>13.20</u>                                            |     |     |
| Carbonate                                                                                            | <u>0.36</u> <u>0.36</u> <u>0</u> <u>0.00</u>            |     |     |
| Sulfate                                                                                              | <u>0.47</u> <u>0.47</u> <u>6.8</u> <u>0.14</u>          |     |     |
| vol <u>10</u>                                                                                        | <u>0.34</u>                                             |     |     |
| Chloride                                                                                             | <u>17.40</u> <u>16.30</u> <u>20</u> <u>0.56</u>         |     |     |
| vol <u>25</u>                                                                                        | <u>4.10</u>                                             |     |     |
| AgNO <sub>3</sub> <u>25</u> <u>4.00</u>                                                              |                                                         |     |     |
| Fluoride                                                                                             | vol <u>10</u> <u>0.4</u> <u>0.4</u> <u>0.03</u>         |     |     |
| o.d.                                                                                                 | <u>1.360</u>                                            |     |     |
| Nitrate                                                                                              | f <u>11.71</u> vol <u>10</u> <u>0.1</u> <u>0.001</u>    |     |     |
| o.d.                                                                                                 | <u>0.010</u>                                            |     |     |
| Boron                                                                                                | f <u>1.24</u> vol <u>1</u> <u>0.11</u> <u>0.11</u>      |     |     |
| o.d.                                                                                                 | <u>0.090</u>                                            |     |     |
| Sum of Constituents                                                                                  | <u>305</u> <u>305</u>                                   |     |     |
| (Residue on Evaporation at 180°C)                                                                    | <u>58.46</u> <u>287</u> <u>287</u>                      |     |     |
| vol <u>100</u>                                                                                       | <u>58.46</u>                                            |     |     |
| dish X-120 <u>58.46</u> <u>287</u>                                                                   |                                                         |     |     |
| TOTAL ANIONS                                                                                         | <u>5.05</u>                                             |     |     |

Provisional records, subject to revision.

FORM 9-1367 (9-1960)  
U. S. DEPT. OF INTERIOR  
GEOLOGICAL SURVEY

ANALYTICAL STATEMENT - GW COUNTY YAVAPAI LAB NO. 51323

Location Clarkdale, Ariz.  
Tuzigoot Nat'l. Monument  
SW 1/4 sec. 22 T16N R3E

Date of collection March 4, 1963

Source (type of well) Deep well  
Owner U.S. Gov't. Nat'l. Park  
Service, Tuzigoot Nat'l.  
Monument, Clarkdale, Ariz.

Ignition Loss 3 Color 3

Dissolved Solids: 270 epm 27 ppm  
Residue at 180°C 277 Total Fe 0.02  
Calculated (Sum) 0.37 Co 1.95 39  
Tons per Acre Foot 212 Mg 2.29 28  
Hardness as CaCO<sub>3</sub> 0 No 0.83 19  
Non-carbonate Hardness 16 pH 7.7 K 0.07 2.8  
X No. 0.6 Specific Conductance 469 Na + K 5.14  
(microhm-cm at 25°C)

Depth 313 Diam 120 ft drawdown 24  
Water level Prod. intervals fr. 265-280'  
Sampled after pumping hrs

Yield 16.67 gpm (max or est)  
Pt of coll Faucet in Museum  
Appearance Clear

\*Sample taken from  
1000-gal. pressure  
storage tank

Temp (°F) 58 Joe Dom., Pub. Supply

Remarks: Drill sample 684  
at Museum of North  
ern Ariz.; Flagstaff,  
Ariz.

Collector Harry P. Linder, Supt.  
Chemist Lewis J. Alary  
Date completed 3/27/63  
Checked by E. F. Williams  
Date transmitted APR - 4 1963

\*\* Tuzigoot Nat'l.  
Monument

4-NPS 1-A6W

Additional records subject to revision

Other Supporting Information



IN REPLY REFER TO:

# United States Department of the Interior

NATIONAL PARK SERVICE

WESTERN REGION

450 GOLDEN GATE AVENUE, BOX 36063  
SAN FRANCISCO, CALIFORNIA 94107

KMR

JUN 9 '82



L54 (WR-RNW)

June 4, 1982

Mr. Wesley E. Steiner, Director  
Department of Water Resources  
99 E. Virginia Avenue  
Phoenix, Arizona 85004

Reference: Arizona Groundwater Management Act  
(1980), A.R.S. 45-593

|                          |          |
|--------------------------|----------|
| Rocky Mountain           | 10/11/82 |
| Regional Office          |          |
| Regional Director        | 10/11/82 |
| Deputy Regional Director |          |
| Administration           |          |
| Park Operations          | 10/11/82 |
| Plan & Resource Pres.    |          |
| Coop Prog                |          |
| Communications & P.A.    |          |
| EO                       |          |
| Oper Eval                |          |
| Action Taken             |          |

Dear Mr. Steiner:

Enclosed are the completed well registration forms for existing wells within the State of Arizona owned by the United States Government, Department of the Interior, National Park Service, Western Region. These forms have been completed for the following areas: Casa Grande National Monument (1 well), Chiricahua National Monument (8 wells), Coronado National Memorial (6 wells), Fort Bowie National Historic Site (1 well), Grand Canyon National Park (no wells), Lake Mead National Recreation Area (14 wells), Montezuma Castle National Monument (3 wells), Organ Pipe Cactus National Monument (21 wells), Petrified Forest National Park (3 wells), Saguaro National Monument (14 wells), Tonto National Monument (1 well), Tumacacori National Monument (3 wells), Tuzigoot National Monument (1 well), and Walnut Canyon National Monument (1 well). The location of these National Park Service areas are shown on the enclosed map (in red).

Of the total 77 wells being registered, 12 wells have a pump capacity exceeding 35 gallons per minute and therefore payment in the amount of \$120.00 (\$10.00 X 12) will be forwarded to your office by the U.S. Treasury Department under separate cover as the registration fee for these non-exempt wells.

If there are any questions with regards to this matter, or if we can be of further assistance, please contact Gerard S. Witucki, Chief, Division of Water Resources, (415) 556-8660, of this Office.

Sincerely yours,

FOR **John H. Chapman**

Howard H. Chapman  
Regional Director, Western Region

Enclosures

See attached sheet for bcc's

bcc's sent to:

Superintendent, Casa Grande, w/respective encls., w/blank form & w/o map  
Superintendent, Chiricahua/Fort Bowie, w/respective encls., w/blank form & w/o map  
Superintendent, Coronado, w/respective encls., w/blank form & w/o map  
Superintendent, Grand Canyon, w/o encls.  
-- Superintendent, Lake Mead, w/respective encls., w/blank form & w/o map  
Superintendent, Montezuma Castle/Tuzigoot, w/respective encls., w/blank form & w/o map  
Superintendent, Organ Pipe Cactus, w/respective encls., w/blank form & w/o map  
Superintendent, Petrified Forest, w/respective encls., w/blank form & w/o map  
Superintendent, Saguaro, w/respective encls., w/blank form & w/o map  
Superintendent, Tonto, w/respective encls., w/blank form & w/o map  
Superintendent, Tumacacori, w/respective encls., w/blank form & w/o map  
Superintendent, Walnut Canyon, w/respective encls., w/blank form & w/o map  
General Superintendent, Southern Arizona Group, w/respective encls., w/blank form & w/o map  
Field Solicitor, San Francisco Office - Attn: J. Burke, w/encls. & w/blank form  
Field Solicitor, Phoenix Office - Attn: W. Swan, w/map, w/blank form & w/example of completed form  
Regional Director, Rocky Mountain Region - Attn: W. McKeel, w/map, w/blank form & w/example of completed form  
Regional Director, Southwest Region - Attn: G. Moore, w/map, w/blank form & w/example of completed form  
(WR)AF, w/SF 1034, w/o encls.

Tuzigoot National Monument  
Contract No. 14-10-0333-1342  
Frontier Construction Company  
Tucson, Arizona

#### NARRATIVE

This contract awarded to Frontier Construction Company of Tucson, Arizona, for the construction of three residences, sewer, water and electrical systems. First day of contract was August 21, 1964, and work was completed March 29, 1965.

#### 100.6 - Buildings

The residences, numbered 3, 5, and 7, are composed of living room, dining room, kitchen, three bedrooms, with one and one-half baths, slab on grade, of approximately 1350 sq. ft. of floor area, and attached carports; all constructed under one common roof. Exterior walls are concrete block; roof is flat, of mopped on composition with gravel surface. Heating is accomplished by oil-fired forced-draft furnaces ducted to all rooms. Cooling is by an evaporative cooler, using the same ducting system for heating. Hot water is furnished by 52-gallon electric water heaters. The buildings are well constructed, meeting all requirements for family living.

#### 100.8 - Utilities: Sewer, Water, Electrical

The sewer system, complete for existing and future building usage, has 1093 LF of 6" V.C.P., 180 LF of 6" cast iron soil pipe main line, and 212 LF of 4" V.C.P. collecting laterals. Six manholes, a 3500-gallon concrete septic tank, a distribution box and five hundred lineal feet of absorption trench completes the system. The system is sound, well constructed and should be trouble free for many years.

The electrical distribution lines are all underground as shown on the as-constructed drawings. Beginning at the Monument boundary adjacent to the residences, the Arizona Public Service Company constructed 1,346 feet of No. 2, 2400 volt, three-phase, primary underground distribution line to the Visitor Center; 76 feet of No. 1/0 single-phase underground secondary line to Residence No. 3; 69 feet of No. 1/0 single-phase underground secondary line to Residence No. 5; and 10 feet of No. 1/0 single-phase underground secondary line to Residence No. 7. One single-phase pad-mounted transformer was installed to provide 120/240 volt single-phase service to the three residences, and two three-phase pad-mounted transformers were installed to provide 240 volt, three-phase service to the Visitor Center and pumphouse.

Under contract there was installed a new outdoor load center located on the rear wall of the existing visitor use building; control panels were installed inside the existing pumphouse, and control panels inside the new fire pump room. In addition three push button control stations were installed at the location of each fire hydrant hose cabinet, and 935 LF of control cable for activating the fire pump.

Revisions to the existing pumphouse included the installation of a 4-inch submersible well pump with 1 HP motor; a pressure tank pump with 1 HP motor, and an electrically operated chlorinator. The 50,000-gallon concrete reservoir and fire pump room was installed underground with access to fire pump room facing the southeast boundary. The distribution system as completed for present and future use included 942 LF of 6" cement asbestos water line, 219 LF of 2" galvanized steel pipe, 30 LF of 1" galvanized steel pipe, three 4" fire hydrants with the necessary valves included. In addition 500 LF of 3/4" galvanized steel pipe, with two 3/4" boxed-in water hydrants, were installed from the existing garage building to the far end of the ruins trail.

The utilities as completed are adequate and useful to the present and future development of facilities for the Tuzigoot National Monument area.

-- Frank A. Pimentel, Project Inspector.

#### Day Labor

The following items were accomplished with day labor.

|                          |          |
|--------------------------|----------|
| 3 Electric Ranges        | \$308.25 |
| 3 Electric Refrigerators | 396.00   |
| 3 Clotheslines           | 73.82    |
| Curtain Rods             | 49.26    |

-- Harry P. Linder, Superintendent

154-SSCLW

SAN FRANCISCO PLANNING AND SERVICE CENTER  
Office of Land and Water Rights  
P. O. Box 723  
Santa Fe, New Mexico.  
87501

NOV 9 1966

Memorandum

To: Superintendent, Tuzigoot  
From: Hydraulic Engineer, SSC, Santa Fe  
Subject: Chemical Water Analysis, Tuzigoot National Monument

We have enclosed the USGS Ground Water Analysis for your Well No. (A-16-3)17-1 for insertion in Water Right Docket No. 1.

By copies of this memorandum we are sending this information to Chief, Branch of Water Resources, WASO, and Supervisory Hydraulic Engineer, SSC, for insertion in their dockets.

WILLIAM E. FIELDS

William E. Fields

Enclosure

cc: Chief, Branch of Water Resources, WASO, w/enc.  
Supervisory Hydraulic Engineer, SSC, w/enc.

jfd:11/8/66

*filed in hydrologic folder*  
*WBF*  
*12/29/80*

Geo E Sta Well Loc WB Kx pH SiC Ca Mg Su Na K Cu Fe Co

154

Southwest Region  
P.O. Box 728  
Santa Fe, New Mexico  
87501

JUL 27 1965

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| W O D C             |      |
| JUL 29 1965         |      |
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| P & P               |      |
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| ENGR                | 7/29 |
| L.A.                |      |
| CH. M.P.            |      |
| CONTR               |      |
| CITY                |      |
| ELEC                |      |
| ACTION TAKEN - DATE |      |
| file                |      |

**Memorandum**

**To: Director**

**From: Assistant Regional Director, Operations**

**Subject: Transmittal of Docket No. 1, Tuzigoot National Monument**

Enclosed is your copy of Docket No. 1, Tuzigoot National Monument for the Headquarters Water System. Included in the docket are the 1964 and 1965 water analyses.

As time permits, we will prepare a water rights map of the existing water system and transmit it for insertion.

By copies of this memorandum we are sending this docket to Chief, WODC and Superintendent, Tuzigoot for their docket files.

(SIGNED)  
George W. Miller

In duplicate

Enclosure

cc: Chief, WODC (2), enc.  
Superintendent, Tuzigoot  
enc.

IN REPLY REFER TO:

L54

AUG - 0 1934

We have enclosed an analysis for the following water source(s):

We have placed this information in the correct Docket and by copies of this memorandum are sending them to the Director and Chief, WODC, for insertion in their Dockets.

George W. Miller

cc: Director ( 2 ) w/enc.  
Chief, WODC ( 2 ) w/enc.

filed hydrologic folder  
WBR

64-611

12/29/80

George W. Miller

W O D C

AUG 24 '64

1. CHS

2. ADM

3. REPS

4. P. B.

5. ARCH

6. ENCL 9/10

7. L. M.

8. SEC

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**Flagstaff National Monument  
Flagstaff, Arizona**

September 21, 1952

**Memorandum**

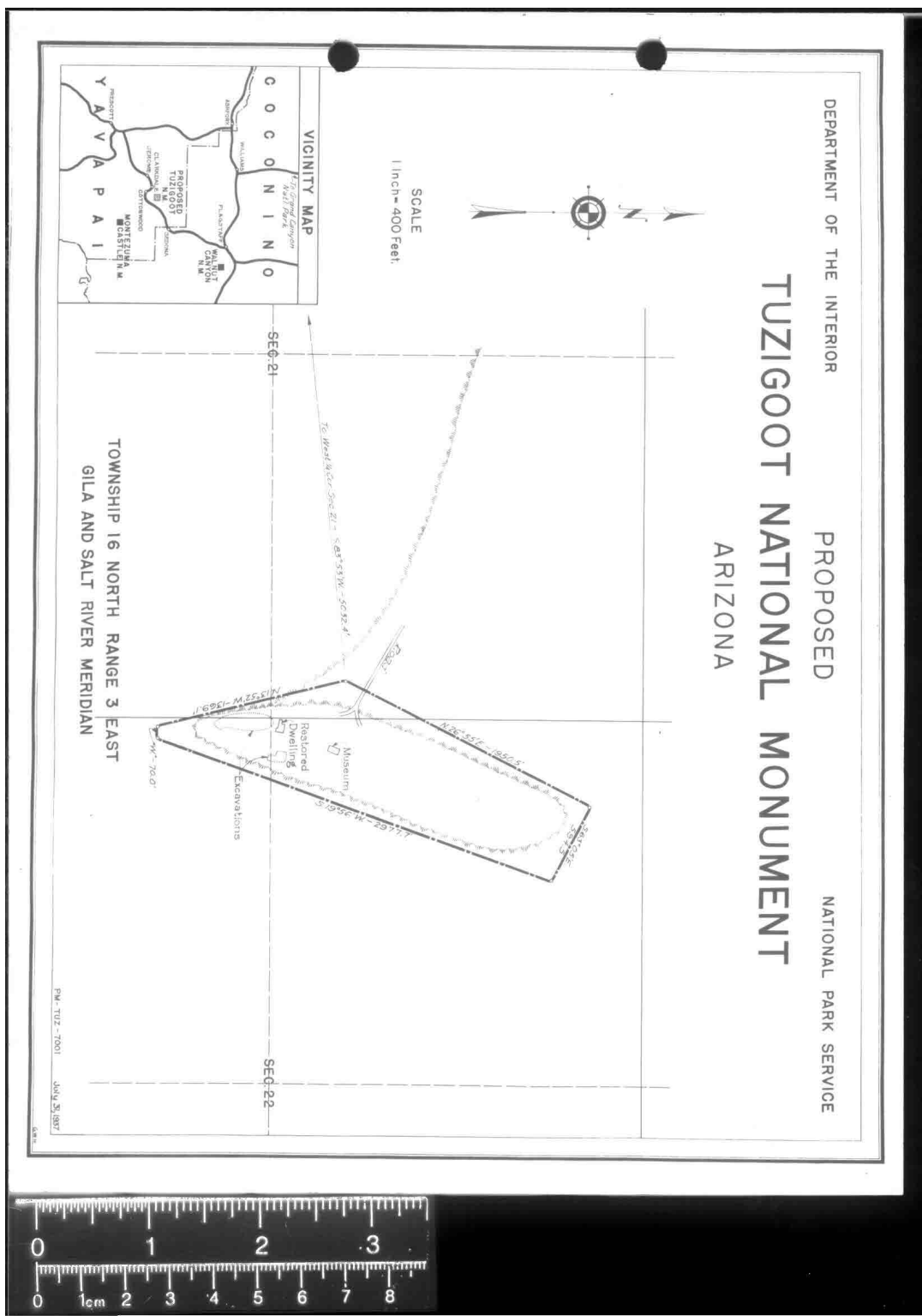
**To: General Superintendent, Southwestern National Monuments**  
**From: Superintendent, Flagstaff National Monument**  
**Subject: Interest of National Park Service in waters of Lower Colorado River**

Re Mr. A. von V. Dunn's memorandum of November 28th on the above subject, Flagstaff now has its own water supply system.

In March, 1952, a well was drilled to a depth of 313 feet and cased with 8" casing to a depth of 152 feet. Water was available at 120 feet. The water supply system employs a 2 h.p. Ingersoll jet pump and a 1000-gallon pressure tank. The system was put into operation on May 15, 1952.

J. W. Brown, Jr.,  
Superintendent





# Docket Information

Number of Documents in Docket 26

Documents Dated from 1/15/1940 to 6/27/1985

Docket Compiled: 6/21/2011