



WATER-RIGHT DOCKET

Natchez Trace Parkway

Docket No: 3

DANCY DISTRICT WATER SYSTEM WELL

Administrative Agreements

10-03-1967: special use permit, no. 1-604-260, right-of-way

Form 10-114
(Rev. Oct. 1965)

UNITED STATES DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

→ Cover OK
This permit consists of 2 pages
w.r. copy.
NO FEE of 4 pages
PERMIT NO. 1-604-260
EXPIRES 12/31/86
PREVIOUS PERMIT NO.

SPECIAL USE PERMIT

Natchez Trace Parkway
(Area)

Dancy Water Association, of Rural Route 1, Mantee, Miss. 39751 is hereby authorized during the period from October 16, 1967, to December 31, 1967, to use the following-described land in the above-named area:

A 20-foot wide right-of-way for a 4-inch underground water line to be located opposite centerline stations 435+00 to 437+00, Section 3-G, Natchez Trace Parkway, as shown more exactly on the attached sketch number 41 and shall be in accordance with attached special conditions.

NO FEE

Fee waived as permittee is a public-owned, non-profit agency, pursuant to the policy statement of the National Park Service submitted March 5, 1947 to the R. E. A. Administrator.

for the purpose of constructing and maintaining a water distribution system for rural residence of Webster County, Mississippi.

subject to the conditions on the reverse hereof and attached pages and to the payment to the Government of the United States of the sum of NO FEE Dollars (\$ NO FEE), in advance (Monthly, semiannually, etc.), or as follows:

payment to be made to the Superintendent by Express or Postal Money Order, Certified Check, or Draft payable to the National Park Service, or Cash.

Issued at Tupelo, Mississippi this 3rd day of October, 1967.

/s/ Joseph C. Rumburg, Jr.
Joseph C. Rumburg, Jr. Superintendent

The undersigned hereby accepts this permit subject to the terms, covenants, obligations, and reservations, expressed or implied, therein.

TWO WITNESSES TO SIGNATURES		PERMITTEE (Signature)	
NAME	NAME	NAME	NAME
/s/ James Fleetwood	/s/ Charles H. Ferguson	Charles H. Ferguson, President	Dancy Water Association
ADDRESS	ADDRESS	R. R. 1, Mantee, Mississippi 39751	
R. R. #3, Box 80A, Ackerman, Miss.			
NAME	NAME	NAME	NAME
39735			
ADDRESS	ADDRESS	ADDRESS	ADDRESS
APPROVED: (If approval is required by higher authority)			
NAME	TITLE	DATE	

*Sign name or names as written in body of permit; for copartnership, permittees should sign as "members of firm"; for corporation, the officer authorized to execute contracts, etc., should sign, with title, the sufficiency of such signature being attested by the Secretary, with corporate seal, in lieu of witnesses.
(This copy for the Washington Office)

CONDITIONS OF THIS PERMIT

1. **Regulations.**—The permittee shall exercise this privilege subject to the supervision of the Superintendent, and shall comply with the regulations of the Secretary of the Interior, or other authorized officer of the Government, governing the area.

2. **Definition.**—The term "Director, National Park Service" as used herein shall include the appropriate Regional Director or Superintendent as the representative of the Director.

3. **Rights of the Director.**—Use by the permittee of the land covered hereby is subject to the right of the Director, National Park Service, to establish trails, roads, and other improvements and betterments over, upon, or through said premises, and further to the use by travelers and others of such roads and trails as well as of those already existing. If it is necessary to exercise such right, every effort will be made by the National Park Service to refrain from unduly interfering or preventing use of the land by the permittee for the purpose intended under this permit.

4. **Nondiscrimination.**—See attachment A.

5. **Damages.**—The permittee shall pay the United States for any damage resulting from this use which would not reasonably be inherent in the use which the permittee is authorized to make of the land described in this permit.

6. **Construction.**—No building or other structure shall be erected under this permit except upon prior approval of plans and specifications by the Director, National Park Service, and the premises and all appurtenances thereto shall be kept in a safe, sanitary, and sightly condition.

7. **Removal of structures and improvements.**—Upon the expiration of this permit by limitation of time or its termination for any reason prior to its expiration date, the permittee, if all charges due the Government hereunder have been paid, shall remove within such reasonable period as is determined by the Superintendent, but not to exceed 90 days unless otherwise stipulated in this permit, all structures and improvements placed on the premises by him, and shall restore the site to its former condition under the direction of the Superintendent. If the permittee fails to remove all such structures and improvements within the aforesaid period, they shall become the property of the

United States, but that will not relieve the permittee of liability for the cost of their removal and the restoration of the site.

8. **Water rights.**—The United States reserves the rights to perfect title to all rights for water which may be developed or used in connection with this permit and shall furnish water to the permittee, when available, at reasonable rates to be approved by the Director, National Park Service. Should such water service be unavailable or inadequate, the permittee may, with prior approval of the Director, provide the same at his own expense, subject to such special requirements as may be prescribed.

9. **Disposal of refuse.**—The permittee shall dispose of brush and other refuse as required by the Superintendent.

10. **Timber cutting.**—No timber may be cut or destroyed without first obtaining a permit therefor from the Director, National Park Service.

11. **Fire prevention and suppression.**—The permittee and his employees shall take all reasonable precautions to prevent forest, brush, grass, and structural fires and also shall assist the Superintendent in extinguishing such fires in the vicinity of any tract which may be used hereunder.

12. **Soil erosion.**—The permittee shall take adequate measures, as directed and approved by the Superintendent to restrict and prevent soil erosion on the lands covered hereby and shall so utilize such lands as not to contribute to erosion on adjoining lands.

13. **Benefit.**—Neither Members of, nor Delegates to Congress, or Resident Commissioners shall be admitted to any share or part of this permit or derive, either directly or indirectly, any pecuniary benefit to arise therefrom: *Provided however,* That nothing herein contained shall be construed to extend to any incorporated company, if the permit be for the benefit of such corporation.

14. **Assignment.**—This permit may not be transferred or assigned without the consent of the Director, National Park Service, in writing.

15. **Revocation.**—This permit may be terminated upon breach of any of the conditions herein or at the discretion of the Director, National Park Service.

SPECIAL USE PERMIT CONTINUATION SHEET NO PER

AREA	PERMIT NO.	PAGE NO.
Natchez Trace Parkway	1-604-260	3

16. Permittee shall have a right of egress and ingress to the water line ROW strip at all times for the purpose of laying, constructing, maintaining, repairing, replacing, operating, or removing the underground pipe and appurtenances, but trucks, tractors, and other maintenance and construction equipment of the permittee or its agents shall not use the parkway motor road for access to the water line; trenching or other equipment not equipped with rubber tires or tracks shall cross the pavement on wooden planks or mats.

17. Top of water pipe or protective sleeve shall be a minimum depth of 30 inches below the ground surface, including ditch sections; manner of installation, maintenance, and operation by the permittee and its agents shall be such as not to interfere with maintenance and operation of the Natchez Trace Parkway and not to damage the parkway road base and pavement. Installation under the parkway motor road shall be by boring and not by open trench installation. Detailed procedures of installation under the motor road shall be approved in advance of construction by the Superintendent or his representative.

18. Permittee agrees to take all reasonable precautions to protect mature trees during installation and future operation and to restore the ground surface after completion of installation as near to the former conditions as may be possible for protection against erosion, with seeding and sodding where necessary; cleared areas except within five feet on each side of the water pipe line are to be permitted to reforest in forested area following installation.

19. Permittee agrees that, if the location of the pipe line interferes with future construction on the Natchez Trace Parkway and it becomes necessary to relocate or install additional conduit under roadways along the pipe line, the necessary relocation or installation shall be done within 90 days after receipt of written request and at the expense of the permittee.

20. Materials and equipment used in construction and operation of the water line remain the property of the permittee, and may be removed by the permittee in the event of discontinuance of the facility.

21. This permit shall be automatically renewable at its expiration for future periods of one year each on compliance with the terms of this permit, but not exceeding in all a term of 20 years, or until December 31, 1986, unless extended in writing by the Superintendent, Natchez Trace Parkway.

22. Permittee shall and hereby does waive and release any and all claims against the United States of America or its employees for any and all damage, loss or cost to person or property resulting either directly or indirectly from the use of said premises and/or from the exercise of the privileges granted by this permit.

23. Permittee understands that this permit shall not be construed as a grant of permanent interest or right-of-way or as an abandonment of use and occupancy of the premises described in this permit, anything herein contained to the contrary notwithstanding.

Form 10-114a
(Dec. 1959)UNITED STATES DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

SPECIAL USE PERMIT CONTINUATION SHEET

NO. 1001

AREA	PERMIT NO.	PAGE NO.
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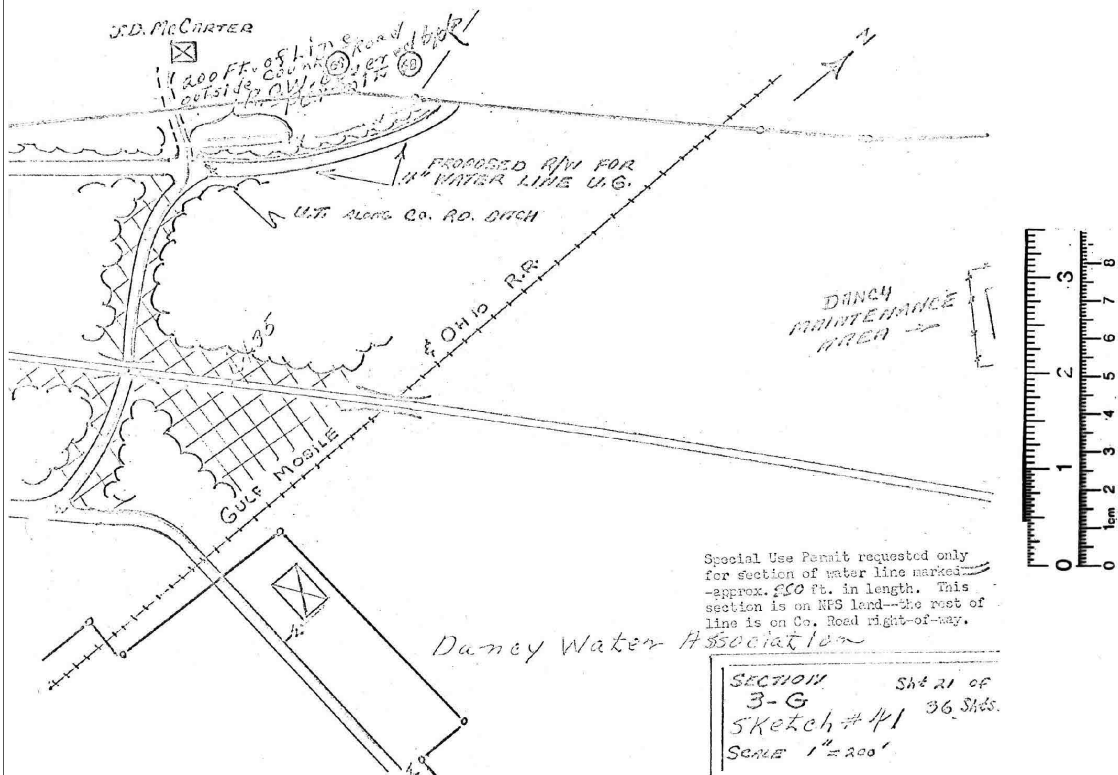
24. It is agreed that the use and occupancy of the portion of the Natchez Trace Parkway above described incident to the privilege hereby granted shall be subject to such rules and regulations as the Secretary of the Interior or his duly authorized representative may from time to time prescribe.

25. The National Park Service shall not be responsible for the injury to persons or damage to property resulting from the use and occupancy of said National Park Service lands by the Dancy Water Association, and it shall hold the National Park Service harmless from any and all claims.

26. The permittee shall protect the scenic and aesthetic value of the right-of-way and the adjacent land as far as possible consistent with the authorized use, during construction, operation, and maintenance of the pipeline.

27. The permittee shall secure authorization from the proper State and County authorities prior to using any rights-of-way over which the said authorities have any jurisdiction when located within the overall right-of-way of Natchez Trace Parkway.

28. Permittee shall not use insecticides, herbicides or other toxic chemicals on parkway lands without prior written permission from the Superintendent.



Supporting Hydro Data

WATER SYSTEM DATA

DATE

AREA Natchez Trace Parkway COLLECTED Dec. 15, 1967 COLLECTED BY B.S.M.

1. Name of System: Dancy District Water System
2. Location: State Mississippi County Webster General Area Mantee
Reference to permanent landmark 15,000 gal. water tank
3. Source of Supply: Deep Well* Capacity 3600+**
(Well, Spring, Stream, Impoundment, etc.) gpm
4. Type of System: Gravity with Booster Pump for Fire Flows
(Pumped, Gravity, etc.)
5. Treatment: None
(Filtration, Chlorination, Aeration, etc.)
6. Distribution Mains: Size 6" Length 762'; Size 4" Length 50'
Size 2" Length 335'; Size Length
Size 1" Length 20'; Size Length
7. Pump Unit: Make Jacuzzi; Type Jet Pump; Model No. 5VHH
Serial No. F-EJD280; Outlet in.; Inlet in.
(Size) (Size)
8. Power Source: Electric Motor: Make Century Capacitor HP 5;
(Elec., Gas, Generator)
Serial No. AN3; Voltage 230; Amps 25;
RPM 3450; Type ; Phase One;
Cycles 60; Others ;
9. Control: Automatic Electrode (Warrick); Manual ;
(Float, Electrode, Pressure, Time)
Other
(Explain)

*Drilled October 1957 by the Bailey Drilling Company to a depth of 1763 feet below the ground surface.

**Approximately 230,000 gallons water used annually.

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Form 10-174
(Rev. 8-56)UNITED STATES DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

COMPLETION REPORT OF CONSTRUCTION PROJECT

REGION One	AREA Natchez Trace Parkway	COUNTY Webster	STATE Mississippi
PROJECT OR JOB TITLE Dancy Water System			PCP NO. U-46
LOCATION IN AREA Section 3-G-1, Dancy Maintenance and Residential Area		MASTER PLAN NO. PKY/NT 2272-B	BUILDING NO.
WORKING DRAWING NO. AND TITLE PKY-NT 3103, Water Supply & Sewage Disposal Systems, Dancy Maintenance Area; PKY-NT 2973, Dancy Pumping Station, Dancy Maintenance Area			
APPROPRIATION TITLE AND SYMBOL 14X1037 - Construction, Liquidation of Contract Authorization, NP\$ 514.14; (513.19 portion)			WORK ORDER NO.
CONTRACT NO. 14-10-127-764; 832 (portion); 856; 882		DATE WORK STARTED October 15, 1957	DATE WORK COMPLETED May 1959
NAME OF CONTRACTOR See attached sheet		ADDRESS See attached sheet	

COST ANALYSIS

CONSTRUCTION ITEMS	QTY.	UNIT COST IN PLACE	TOTAL COST IN PLACE
See Following Sheets with Cost Breakdown			
Account 514.14			
Contracts			19,448.80
Supplies and Materials			6.09
Other Direct			1,943.12
Facilitating Services			105.00
Sub-Total Direct			21,503.01
PS&S 12.74%			2,739.48
Total Account 514.14			24,242.49
Account 513.19			
Estimated Portion of Lump Sum Contract 14-10-127-832			4,676.00
Facilitating Services			28.23
Sub-Total Direct			4,704.23
PS&S 12.74%			599.32
Total Account 513.19			5,303.55
Fiscal Accounting Office Clearance			
SIGNED			
V. L. La Follette, Administrative Officer		TOTAL	29,546.04

SUMMARY OF EXPENDITURES

PERSONAL SERVICES	EQUIPMENT	MATERIALS AND SUPPLIES
		\$ 6.09
OTHER		
Contract Payments \$24,124.80; Direct \$1,943.12; Facilitating Services \$133.23; PS&S \$3,338.8		

CHANGE ORDERS

ORIGINAL CONTRACT AMOUNT	FIRST	SECOND	THIRD
See Attachments			
FINAL CONTRACT AMOUNT	FOURTH	FIFTH	SIXTH

THIS PROJECT OR JOB HAS BEEN COMPLETED IN ACCORDANCE WITH
APPROVED DRAWINGS, SPECIFICATIONS, AUTHORIZED CHANGES

SUBMITTED BY (Name and title) SIGNED John H. Saxon, Parkway Engineer	DATE MAY 13 1960
APPROVED BY (Name and title) SIGNED Malcolm Gardner, Superintendent	DATE MAY 13 1960

(ATTACH NARRATIVE STATEMENT, PHOTOGRAPHS, AND "AS BUILT" DRAWINGS TO THIS FORM)

Contractors

Bailey Drilling Company (14-10-127-764)
Greenville, Mississippi

G. L. Wilmon Lumber Company (14-10-127-832)
Tupelo, Mississippi

R. D. Cole Manufacturing Company (14-10-127-856)
Newnan, Georgia

Sanitary Plumbing Company (14-10-127-882)
Tupelo, Mississippi

G. L. Wilmon Lumber Company (P. O. 27-524)
Tupelo, Mississippi

Tupelo Hardware Company (P. O. 27-423)
Tupelo, Mississippi

WATER SYSTEM
DANCY MAINTENANCE AREA

Contract Cost Breakdown

Contract No. 14-10-127-764, Water Supply Well (Bailey Drilling Company, Greenville, Mississippi)	\$ 9,803.80
Contract No. 14-10-127-882, Booster Pump and Appurtenances (Sanitary Plumbing Company, Tupelo, Mississippi)	2,000.00
Contract No. 14-10-127-856, Elevated Storage Tank (15,000 Gallon)	7,640.00

Other Direct

Purchase Order No. 27-423, Water Pump, Control, and Appurtenances (Tupelo Hardware Company, Tupelo, Mississippi)	748.12
Purchase Order No. 27-524, Supplying Materials and Constructing Tank Footings	1,195.00
Other Supplies and Materials	6.09
Facilitating Services	105.00
PS&S	2,739.48

Total Account 514.14	\$ 24,242.49
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Estimated portion of Lump Sum Contract No. 14-10-127-832 (G. L. Wilmon Company, Tupelo, Mississippi, Account 513.19)	4,676.00
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Facilitating Services	23.23
PS&S	599.32

Total Estimated Portion of Account 513.19 Charged to Dancy Water System	5,303.55
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TOTAL COSTS	\$ 29,546.04
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EXPLANATION OF CONTRACT OVERRUNS AND UNDERRUNS

Contract No. 14-10-127-764, Bailey Drilling Company,
Greenville, Mississippi, Water Supply Well at Dancy
Maintenance Area, Section 3-0, Natchez Trace Parkway

Bid Item	Description	Unit Price	Estimated			Final	
			Quan.	Unit	Amount	Quan.	Amount
1.	Drilling well hole (0-400') to receive a 6" I.D. Casing & 2" min. grout ring & furnishing 6" I.D. casing & installing & sealing it with a 2" min. grout ring.	8.00	400	Lin Ft	3,200.00	400	3,200.00
2.	Drilling well hole(400-1200') to receive a 4" I.D. casing & furnishing 4" I.D. casing & installing and sealing it to the 6" I.D. casing	3.75	800	Lin Ft	3,000.00	800	3,000.00
3.	Drilling well hole(1200-1800') to receive a 4" I.D. casing & furnishing & installing the 4" I.D. casing	3.90	600	Lin Ft	2,340.00	430	1,677.00
4.	Drilling well hole(below 1800') to receive a 4" I.D. casing & furnishing & installing 4" I.D. casing.	4.00	120	Lin Ft	480.00	0	.00
5.	Furnishing & installing well screen with 3-1/2" approx. outside diameter	35.00	30	Lin Ft	1,050.00	35	1,225.00
6.	Testing for yield & drawdown	20.00	24	Hours	480.00	24	480.00
TOTALS					\$ 10,550.00		\$ 9,582.00

Change Order No. 1

Drill well hole to receive 2-1/2" I.D. pipe, furnish and install a minimum of 87 lin. ft. of 2-1/2" I.D. galvanized steel pipe instead of 4" I.D. pipe, which eliminated Bid Item No. 4.

+ 226.80

GRAND TOTAL

\$ 9,808.80

400
800
430
87
1717
35
1752

1920 ft.

10

Items No. 1 & 2 - No Change.

Item No. 3 - Decreased decided, for stability, to set 4-inch casing on rock at the 1,630 foot level and replace 4-inch casing with 2-1/2" casing the entire length to the top of the screen.

Item No. 4 - Eliminated - Not Needed.

Item No. 5 - Increased 5' - to assure adequate future water supply since the well was so deep and expensive.

Item No. 6 - No Change.

NARRATIVE TO ACCOMPANY PROJECT COMPLETION REPORT
WATER SYSTEM, DANCY MAINTENANCE AREA
SECTION 3-G, NATCHEZ TRACE PARKWAY

Water Supply Well

The drilling of the water well was started on an "around the clock operation" on October 15, 1957, by the Bailey Drilling Company of Greenville, Mississippi. The hydraulic rotary method of drilling was used. The contractor used a portable truck-trailer mounted rig, with butane operated motors. A pilot hole was drilled to the 1763 foot level to secure data on the various soils encountered and to obtain water bearing sand samples for analysis to determine the screen size. A team from the water resources division of the U. S. Geological Survey then made an electric log of the well hole.

The pilot hole was reamed to accommodate the 6" casing and 2" grout ring to the 400 foot level. Twelve inches of concrete was poured into the bottom end of a short section of 6 inch casing, with 1" holes drilled just above the concrete, and allowed to set for 48 hours. This short section was then coupled to a standard length 6" casing and it was the first section of the four hundred feet of casing placed in the well hole. The concrete plug sealed off the pilot hole below while grout was pumped through the casing to this point and through the holes just above. By this means the 2" void outside of the casing pipe was grouted from the 400 foot point to ground level. The grout was then allowed to set for 72 hours, after which the concrete plug was drilled out. The remainder of the pilot hole was then reamed to 5-3/4" diameter by working through the 6 inch casing, to the 1630 foot level where solid rock was encountered. Four inch casing was then set with the bottom resting on the rock at the 1630 foot level, and the top lapping the six inch casing by 31 feet.

A lead seal was swaged in place between the outside of the 4" casing and the inside of the 6" casing, to completely eliminate the possibility of foreign material entering the casing at this point. The balance of the hole was then reamed to approximately a 4" diameter and the screen and the blank 2-1/2" pipe were set with a 33 foot lap and another lead seal swaged in place between the outside of the 2-1/2" pipe and the inside of the 4" casing. Extremely heavy drilling mud was used in all drilling operations below the 1200 foot level, as at this level well drillers had experienced considerable difficulties with the soils shifting in the strata encountered below 1200 feet.

The well was developed by pumping with compressed air and surging until the water was clear. The casing was cleaned by swabbing.

A twenty-four hour acceptance and drawdown test was completed on November 19, 1957, which indicated a well production of 4.6 gallons per foot of drawdown when pumping 60 gpm. A copy of the report of the drawdown test is attached.

A chlorine solution was introduced into the well in sufficient quantity to make a strength of 50 ppm in the entire well. This solution was allowed to remain in the well over night and then the well was pumped continuously until all noticeable chlorine was removed. Water samples were submitted to the Mississippi State chemical laboratory for a chemical analysis. A copy of this report is attached. Samples of the water were also tested by the State Board of Health and the report showed the absence of coliform organisms.

The final quantities completed are:

<u>Contract Item No.</u>	<u>Item</u>
1.	6" I.D. Casing, grouted in place, (0'-400'), 400 lin. ft.
2.	4" I.D. Casing, in place (400'-1,200'), 800 lin. ft.
3.	4" I.D. Casing, in place (1,200'-1,630'), 430 lin. ft.
5.	Well Screen (1,702'-1,737') 35 lin. ft.
6.	Testing for Yield and Drawdown, 24 hours.

Change Order No. 1:

2-1/2" I. D. Galvanized Pipe (1,630'-1,702').

All work was inspected by personnel of, or assigned to, the Parkway Engineer's staff.

Water Supply Pump, Automatic Control and Appurtenances

A Jacuzzi, single stage, deep well, jet type water well pump, manufactured by Jacuzzi Brothers, Inc., of St. Louis, Missouri, was purchased from Tupelo Hardware Company of Tupelo, Mississippi,

under Purchase Order No. 27-423, dated 4/1/58, and installed by National Park Service personnel. Included in the purchase order were the following:

A Jacuzzi Jet Pump, with magnetic started (5 h.p., 220 volts, single phase), 5 h.p. single phase motor with thermal overload protection, ontrance switch (heavy duty, 2 pole, 60 amp, fusible), floatless liquid level control.

126 feet of 2" galvanized screw joint pipe.

126 feet of 2-1/2" galvanized screw joint pipe.

Pump: Figure No. 5VIN, Serial No. F-EJD280, 5 hp, 3450 rpm.

Motor: Century Capacitator, single phase, Serial No. AN3, Model CS-215PV-FVI-IX, 5 hp, 3500 rpm, 230 volts, 25 amps, time rating: continuously open.

Level Control: Floatless liquid, Charles F. Warrick Company of Berkley, Michigan, Type UM2-TM, Primary 230 volts, Secondary 200 volts, 0.03 amps, 60 cycle.

Booster Pump and Appurtenances

A booster pump was required to furnish sufficient pressure for fire fighting. The elevated water storage tank was held to a maximum height of 60 feet, so as to be screened from view of travelers on the parkway. The resulting low pressure is sufficient for domestic uses only. The booster pump furnished and installed by Sanitary Plumbing Company of Tupelo, Mississippi, under Contract No. 14-10-127-682 was manufactured by Chicago Pump Company, 622 Diversey Parkway, Chicago, 14, Illinois.

The pump is a Chicago Pump Company Type DS-20105, single stage, double suction, split case with stainless steel shaft and mechanical seals, having a 3" suction and a 2" discharge, and rated to deliver 100 gpm at TDH of 70 feet; equipment serial No. PE-8204; complete seal No. 2655888; seal parts kit No. 2656324. The driving motor is a master motor of 3 hp, 1725 rpm, 230 volts, 60 cycle. Both pump and motor are placed on same cast iron base. Fifty feet of 4" cast iron pipe, 40 feet of 2" galvanized steel pipe, and various valves and fittings on Drawing No. PKY-NT 2973 indicate the installation.

Water Distribution System

On March 9, 1958, the G. L. Wilemon Lumber Company of Tupelo, Mississippi, began construction on their Contract No. 14-10-127-832, a portion of which was the water distribution system. The contract specifications allowed an alternate of either 6" cement asbestos pipe or 6" cast iron pipe. The contractor elected to install cast iron pipe with mechanical joint. The quantities installed were, as follows:

762 feet of 6" cast iron pipe.

335 feet of 2" galvanized steel pipe.

20 feet of 1" galvanized steel pipe.

3 fire hydrants, and various valves and fittings as required.

15,000 Gallon Elevated Steel Water Tank

Soil Test: A subsoil foundation investigation was performed by R. M. Scholtes, Registered Engineer, of Starkville, Mississippi. Results of the investigation are attached to and made a part of this report.

R. D. Cole Manufacturing Company of Newman, Georgia, began the construction of the 15,000 gallon elevated water tank on July 11, 1958. This tank, 15'-0" high by 13'-0" in diameter, is placed on a 40 foot tower composed of four panels. The bottom and shell are built of 1/4" steel plate with the cover built of 3/16" steel plate.

Tank appurtenances consisted of:

Revolving ladder on roof.
Outside tank ladder.
Ladder on one column.
Safety grating and indicator gauge.

R. D. Cole Manufacturing Company designed the footings which were constructed under Purchase Order No. 27-524, by G. L. Wilemon Lumber Company of Tupelo, Mississippi.

The tank was completed and accepted on July 25, 1958, subject to final water test since the water distribution was not completed to the tank.

RECAPULATION OF QUANTITIES

Dancy Water System

One Water Supply Well

400 ft. - 6" Steel Casing (grouted)
1230 ft. - 4" Steel Casing
87 ft. - 2-1/2" Galvanized Steel Pipe
35 ft. - 2-1/2" S. S. Bar Lug Screen on S. S. Pipe 0.020 slot
126 ft. - 2-1/2" Galvanized Steel Pipe) Pump (pipe in well)
126 ft. - 2" Galvanized Steel Pipe)
40 ft. - 2" Galvanized Steel Pipe (well to tank)
1 - 15,000 gallon elevated water tank, 60 ft. high
1 - 2" gate valve
1 - Water Supply Pump (Jacuzzi Jet Pump, with magnetic started
5 h.p. Century Capacitator, 220 volts,
25 amps, single phase motor with thermal
overload protector.)

Water Distribution System

762 ft. - 6" cast iron pipe with mechanical joints
335 ft. - 2" galvanized steel pipe
20 ft. - 1" galvanized steel pipe
1 - 6" check valve
6 - 2" gate valves
2 - 1" drain valves
3 - 1/2" fire hydrants and various valves and fittings

One Booster Pump (Chicago Pump Company, Type DS-20105, single stage,
double suction, 3" suction with 2" discharge, rated
to deliver 100 gpm at TTH of 70 feet. The driving
motor is 3 h.p., 1725 rpm, 230 volts, 60 cycle.)

50 ft. - 1/2" cast iron pipe connect to water distribution
lines.
2 - 1/2" gate valves

RECORD OF TWENTY-FOUR HOUR ACCEPTANCE TEST OF

WATER WELL

Dancy Maintenance Area
 Section 3H
 Natchez Trace Parkway

Test begun at 1:00 o'clock P.M., November 18, 1957

Static Water Level 94.5 Feet

<u>Time</u>	<u>Drawdown</u>	<u>Gallons per min.</u>
1:00 P.M.		
to	14.6 Ft.	60
1:30 P.M.		
to	7.5 Ft.	42
2:00 P.M.		
to	14.6 Ft.	60
2:30 P.M.		
to	16.1 Ft.	60
3:00 P.M.		
to	7.5 Ft.	42
3:30 P.M.		
to	0 Ft.	17
4:00 P.M.		
to	0 Ft.	22
4:30 P.M.		
to	4.5 Ft.	30
5:00 P.M.		
to	13.0 Ft.	60
5:30 P.M.		
to	13.0 Ft.	60
6:00 P.M.		
to	13.0 Ft.	60
6:30 P.M.		
to	13.0 Ft.	60
7:00 P.M.		
to	13.0 Ft.	60
7:30 P.M.		
to	13.0 Ft.	60
8:00 P.M.		
to	13.0 Ft.	60
8:30 P.M.		
to	13.0 Ft.	60
9:00 P.M.		
to	13.0 Ft.	60
9:30 P.M.		
to	13.0 Ft.	60

RECORD OF TWENTY-FOUR HOUR ACCEPTANCE TEST OF WATER WELL
Dancy Maintenance Area (continued)

<u>Time</u>	<u>Drawdown</u>	<u>Gallons per min.</u>
10:00 P.M.		
to	13.0 Ft.	60
10:30 P.M.		
to	13.0 Ft.	60
11:00 P.M.		
to	13.0 Ft.	60
11:30 P.M.		
to	13.0 Ft.	60
12:00 Midnight		
to	13.0 Ft.	60
12:30 A.M.		
to	13.0 Ft.	60
1:00 A.M.		
to	13.0 Ft.	60
1:30 A.M.		
to	13.0 Ft.	60
2:00 A.M.		
to	13.0 Ft.	60
2:30 A.M.		
to	13.0 Ft.	60
3:00 A.M.		
to	13.0 Ft.	60
3:30 A.M.		
to	13.0 Ft.	60
4:00 A.M.		
to	13.0 Ft.	60
4:30 A.M.		
to	13.0 Ft.	60
5:00 A.M.		
to	13.0 Ft.	60
5:30 A.M.		
to	13.0 Ft.	60
6:00 A.M.		
to	13.0 Ft.	60
6:30 A.M.		
to	13.0 Ft.	60
7:00 A.M.		
to	13.0 Ft.	60
7:30 A.M.		
to	13.5 Ft.	62
8:00 A.M.		
to	13.5 Ft.	62
8:30 A.M.		
to	13.5 Ft.	62
9:00 A.M.		
to	13.5 Ft.	62
9:30 A.M.		
to	13.5 Ft.	62

RECORD OF TWENTY-FOUR HOUR ACCEPTANCE TEST OF WATER WELL
Dancy Maintenance Area (continued)

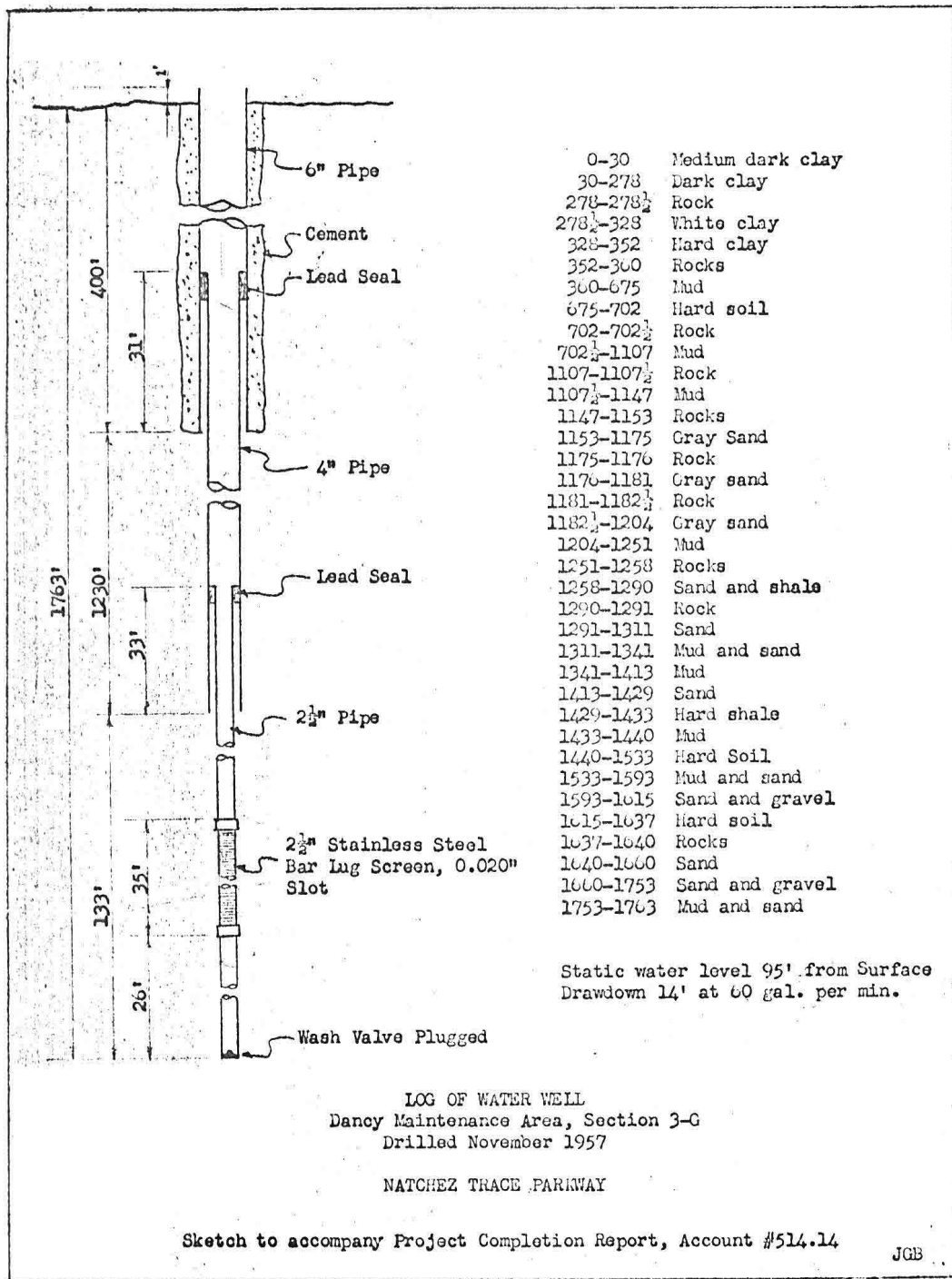
<u>Time</u>	<u>Drawdown</u>	<u>Gallons per min.</u>
10:00 A.M.		
to	13.5 Ft.	62
10:30 A.M.		
to	13.5 Ft.	62
11:00 A.M.		
to	13.0 Ft.	60
11:30 A.M.		
to	7.5 Ft.	42
12:00 Noon		
to	0	17
12:30 P.M.		
to	13.0	60
1:00 P.M.		

End of Test

Above well drilled and tested by Bailey Drilling Co., Greenville, Mississippi.

I certify that the above test was observed by me on November 18 and 19, 1957.

Troy F. Carr, Engineering Aid



FORM 1007-8-57-5M

Mississippi State Chemical Laboratory

State College, Mississippi

November 22, 1957

M. P. KATHERIDGE
STATE CHEMIST

RECEIVED

NOV 28 1957

Analysis No. 271,299

Analysis of WATER

Marked: DANCY
Natchez Trace Parkway

Received on 11/19/57

from Bailey Drilling Co.

Address Greenville, Miss.

Gentlemen:

RESULTS:

We have analyzed the water which was brought to our laboratory and which as we understand is from the Natchez Trace Parkway, and our results follow:

PARTS PER MILLION

Total Solids	458.00
Carbonate Radicle, CO_3	4.80
Bicarbonate Radicle, HCO_3	136.64
Chloride Radicle, Cl	205.66
Ammonia Nitrogen	0.56
Albuminoid Nitrogen	Trace
Nitrite Nitrogen	0.00
Nitrate Nitrogen	0.00
Free Carbon Dioxide, CO_2	0.00
Total Hardness as CaCO_3	60.00
pH	8.2

Est. 455

M. Patterson

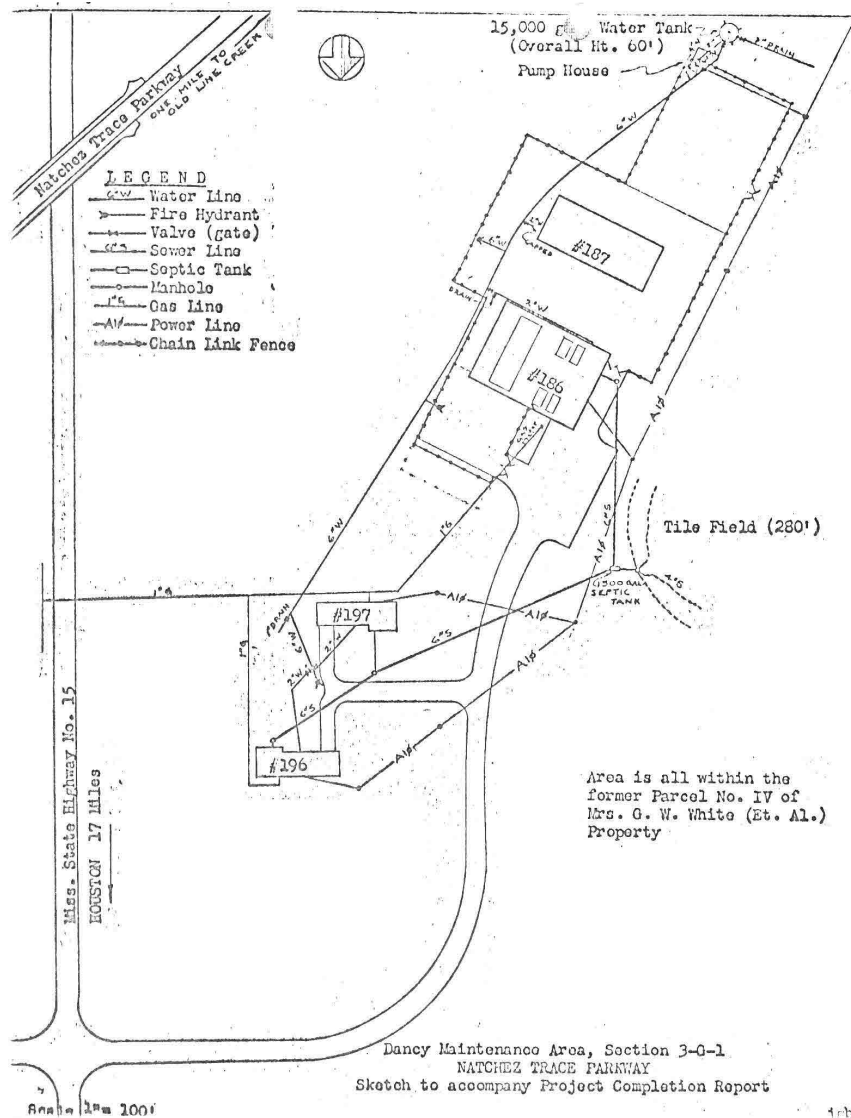
The dissolved solids are a bit high and consist principally of sodium chloride together with a smaller amount of sodium bicarbonate. There are also much smaller quantities of sodium carbonate together with calcium bicarbonate and calcium chloride. These small amounts of calcium salts produce a bit of hardness and it is of the order of slightly more than three grains per gallon. This is not sufficient quantity of hardness to recommend a softener.

There are traces of free and albuminoid ammonia; however, it is possible that there is no serious contamination. Evidently, though, the yellowish color, which may be from a combination of very small amounts of iron together with traces of dissolved organic material from the stratum, is objectionable.

Thanking you for this opportunity of serving you and the Natchez Trace Parkway, we are

Sincerely yours,

cc: Natchez Trace Parkway
Box 428, Tupelo, Miss.M. P. KATHERIDGE
State Chemist



Docket Information

Number of Documents in Docket 23

Documents Dated from 11/22/1957 to 12/15/1967

Docket Compiled: 5/27/2011