



WATER-RIGHT DOCKET

Natchez Trace Parkway

Docket No: 4

WITCH DANCE WATER SYSTEM WELL

Supporting Hydro Data

12-15-1967: water system data sheet for the witch dance water system

WATER SYSTEM DATA

AREA Natchez Trace Parkway ^{DATE} Dec. 15, 1967 ^{COLLECTED BY} E.S.M.

1. Name of System: Witch Dance Water System
2. Location: State Mississippi County Chickasaw General Area Houston
Reference to permanent landmark P.O.T. Mon. 1 between Mon. 1 & Mon. 2
3. Source of Supply: Deep Well* Capacity 1500+
(Well, Spring, Stream, Emplacement, etc.) gph
4. Type of System: Pumped (Pneumatic)
(Pumped, Gravity, etc.)
5. Treatment: None
(Filtration, Chlorination, Aeration, etc.)
6. Distribution Mains: Size 2" Length 302' ; Size Length
Size 1 1/2" Length 613' ; Size Length
Size Length ; Size Length
7. Pump Unit: Make Jacuzzi ; Type Submersible ; Model No. 2S46-S2/S-98
Serial No. ; Outlet in. ; Inlet in.
(Size) (Size)
8. Power Source: Electric Motor: Make Franklin Electric HP 2 ;
(Elec., Gas, Generator)
Serial No. ; Voltage 230 ; Amps 11 ;
RPM 3450 ; Type ; Phase One ;
Cycles 60 ; Others ;
9. Control: Automatic B/W Liquid Level Control ; Manual ;
(Float, Electrode, Pressure, Time)
Other
(Explain)

*Drilled May 1965 by Herndon-Homan Well & Supply, Inc. to a depth of 1043 feet below the ground surface.

10. Pump Design: Capacity - GPM - (Actual) - (Design) - GPM
Head - Ft. - (Actual) - (Design) - Ft.
11. Pump Housing: Type Const. - (Walls) - (Roof) -; Size -
12. Storage: Pneumatic -; Type Const. Steel
(Pneumatic, Elevated, Underground, etc.) (Concrete, Wood, Steel)
Size -; Capacity 200 gal.; Inlet - Ft. - in.;
(Elev) (Size)
Outlet - Ft. - in.; Pressure Setting -
(Elev) (Size) (if pneumatic)
13. Distribution: Water Closets 2; Lavatory 2; Urinal 2;
Drinking Fountain 3; Hose Bibs -; Residences -;
Other -;
14. Metered or Nonmetered: Nonmetered; No. -; Size -
No. -; Size -
No. -; Size -
15. Fire Protection: Fire Hydrants -; Yard Hydrants -
16. Water Analysis (If Available): PH 8.5; total solids 296.4; CO₃ 7.2;
153.70
HCO₃ 92.2; CO₂ 0.0; total hardness as CaCO₃ 31.2; Ammonia Nitrogen 0.5
17. Condition of System: Complete new system installed in 1965
(repairs needed, itemize)

COST ANALYSIS:	Water Supply Well	\$ 7,163.00
	Water System	4,895.92
	Day Labor	603.35
	Sub-total	12,662.27
	16% PS&S	2,025.96
	TOTAL COST	\$14,688.23

Form 10-174
(Rev. 10-62)UNITED STATES DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

Work Order No.

225025

Fund Symbol

14X1037

Year Programmed

1965

PCP No.

U-97, B-172

Master Plan No.

PCY-WT-30430; 3323

Master Plan Corrected By

As Built Drawings By

Park
Natchez Trace Parkway

Location in Park
Section 3-G, Chickasaw County,
Mississippi

Region
Southeast

State(s)
Mississippi

County or Counties
Chickasaw

☒ Contract and/or ☒ Day Labor

Work Order Title

3-G, Dancy (Witch Dance) Water System, Sewer & Comfort
Station

Date Started

June, 1965

Date Completed

October, 1965

DESCRIPTION OF FIXED ASSETS
(For completion by employee in charge of project)TOTAL COSTS
(For completion by FFO)

Contract Items: Contract No. 14-10-0127-1730

302 L.F. 2" Galv. Steel Water Pipe	332.20
613 L.F. 1½" Galv. Steel Water Pipe	576.22
1 Pneumatic Tank Complete	243.00
3 Water Station Complete (drinking fountains)	1,452.00
6 Utility Line Markers	30.00
40 L.F. 6" C.I. Sewer Pipe	91.20
269 L.F. 4" V.C. Sewer Pipe	269.00
50 L.F. 4" C.I. Sewer Pipe	72.00
1 4' Diameter Brick Manhole, Comp.	180.00
1 1500 Gallon Concrete Septic Tank	960.00
1 960 S.F. Sand Filter	1,280.00
1 Electrical System Complete	2,262.50
1 Comfort Station	9,731.45
1 Water Supply Well Complete (Contract No. 14-10-0127-1726)	7,163.00
	24,642.57

Day Labor:

1 Well Pump with controls installed 603.35

25,245.92

220 General Buildings 9,731.45

230 Utility Systems 15,514.47

29,285.27

TOTAL

\$ 29,285.27

DISTRIBUTION		THE FIXED ASSET DESCRIBED ABOVE HAS BEEN COMPLETED IN ACCORDANCE WITH APPROVED DRAWINGS, SPECIFICATIONS, AND AUTHORIZED CHANGES	
No.	To	Submitted By:	Title:
1	WASO	By: John H. Saxon	Supervisory Civil Engr.
1	PSC	Approved By: Joseph C. Rumburg, Jr.	Superintendent
1	SE REG		
1	NTP FILE		
1	ITC		
1	ENGRS.		
		COSTS VERIFIED BY: T.J. Baer (Signed)	Title: Regional Accountant
			Date: Dec. 8, 1967

Form 3C-174A
(June 1962)UNITED STATES DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

Work Order Number

225025

Fund Symbol

1-K1037

COMPOSITION OF COST FOR COMPLETION REPORT

Park Natchez Trace Parkway	Region SE	Year Programmed 1965
Location in Park Section 3-G, Chickasaw County, Mississippi		
Work Order Title 3-G, Dancy (Witch Dance) Water System, Sewer & Comfort Station		

COMPOSITION OF COST

COSTS CHARGED TO FUNDS ALLOTTED TO FIELD FINANCE OFFICE		
(1) Personal Services.....	\$ 58.41	
(2) Travel.....		
(3) Contract Work ..(2).....	24,642.57	
(4) Supplies and Materials.....	544.94	
(5) Other Direct Expenses.....		
(6) Operation of Equipment.....		
(7) Depreciation of Equipment.....		
(8) Purchase of Construction Equipment.....		
(9) Purchase of Other Accountable Equipment.....		
(10) Other Costs:		
(11) TOTAL COST CHARGED TO FFO FUNDS.....	XXXXXXXXXX	\$ 25,245.92
OTHER COSTS:		
(12) PS&S, AP, and/or Facilitating Services @ 16 %.....	\$ 4,039.35	
(13) Inventory and Other Non-Fund Costs		4,039.35
(14) GROSS WORK ORDER COSTS	XXXXXXXXXX	\$ 29,285.27
LESS:		
(15) Residual Value of Construction Equipment on Line 8	\$	
(16) Other Credits		
(17) NET COST OF FIXED ASSETS	XXXXXXXXXX	\$ 29,285.27

Identify other costs and other credits by line item entry, on an attached schedule, or explain in narrative.

NARRATIVE TO ACCOMPANY PROJECT COMPLETION REPORT
DANCY (WITCH DANCE) WATER SYSTEM, SEWER & COMFORT STATION
SECTION 3-G
NATCHEZ TRACE PARKWAY
WORK ORDER NO. 225025

GENERAL:

This contract work consisted of the construction of one comfort station, water system, and sewerage system for the Witch Dance Picnic Area and an exhibit shelter for Bynum Mounds. The exhibit shelter cost is reported under PCP for Work Order No. 211708.

After receiving plans and specifications from EODC, the Natchez Trace Parkway issued invitations for bids. One bid was received, and R. J. Wilemon Construction Company of Tupelo, Mississippi, was awarded Prime Contract No. 14-10-0127-1730 on May 27, 1965, in the amount of \$23,358.80. This included Bynum Mound exhibit shelter.

Notice to proceed was signed by R. J. Wilemon Construction Company on June 22, 1965, thereby establishing June 23, 1965, as the first day of the contract time.

Change Order No. 1 was issued by the Contracting Officer on September 15, 1965, to install 185 linear feet of additional underground electrical service. This increased the contract amount \$462.50. No additional allowance of time was made for this work.

Change Order No. 2 issued by the Contracting Officer on September 27, 1965, changed the completion date from September 21, 1965, to October 4, 1965, thereby giving the contractor an extension of fourteen days.

Stop Order No. 1 was issued by the Contracting Officer on September 28, 1965, and signed by the contractor on September 29, 1965. The stop order was deemed necessary because of the delayed delivery of replacements of the water tank and urinal that were damaged in shipment.

An Order to Resume Work was issued by the Contracting Officer on October 16, 1965, thereby establishing October 23, 1965, as the completion date.

Change Order No. 3 was issued by the Contracting Officer on November 2, 1965, and signed by the contractor on November 4, 1965, to make adjustment in contract amount of face brick used for comfort station and exhibit shelter. The contract amount was reduced \$62.10.

A final inspection was made on October 22, 1965, and a letter of acceptance written on November 16, 1965.

Subcontractors for Contract No. 14-10-0127-1730 were as follows:

Plumbing & Utilities	Commercial Heating & Air Conditioning Co. Post Office Box 678 Tupelo, Mississippi 38801
Electrical	Hinds & Kelly Electric Company Tupelo, Mississippi 38801
Roofing & Sheet Metal	McDonald Roofing & Sheet Metal Company Tupelo, Mississippi 38801
Painting	Mr. J. O. Cook Nettleton, Mississippi 38858

Comfort Station - Witch Dance:

The comfort station at Witch Dance was constructed substantially in accordance with EODC Drawing No. PKY-NT 3043C. This building, which covers a total of 235 square feet, includes a men's toilet with one water closet, one urinal, and one lavatory; and a women's toilet with one water closet, one sanistand, and one lavatory. A storage room is between the two toilets.

The building is constructed on a reinforced concrete foundation poured monolithically with the concrete floor slab, concrete block with face brick exterior walls, wood framing, and built-up roof. The interior of the toilet rooms is faced with ceramic tile to a height of 7 feet. The floors are covered with ceramic tile. The wall tile is No. 1202 as manufactured by Mosaic Tile Company, while the floor tile is pattern No. 3304, 16A & 16B, Ginger Brown, as manufactured by Jackson Tile Company. The toilet partitions are manufactured by The Henry Weis Manufacturing Company, Elkhart, Indiana. The color of the partitions is No. 41, Green, of the Weis Color Chart. All fixtures were manufactured by American Standard. Both toilets have fluorescent and incandescent lighting. Each toilet is heated by a wall-mounted, thermostatically controlled, 220 volt, Chromalox Electric Heater, Cat. No. RF-215. The locks on all doors are Russwin locks and are master-keyed to Schlage No. R121909.

This comfort station is substantially the same as many others constructed on Natchez Trace by the same plan and new photographs are not included.

Water Well - Witch Dance:

Drilling the pilot hole for the water well at Dancy (Witch Dance) Picnic Area was started May 24, 1965, by Herndon-Homan Well & Supply, Inc. under Contract No. 14-10-0127-1726. The original amount of the contract for the well was \$8,035. Change Order No. 1 dated May 27, 1965, decreased the contract amount by \$390 by decreasing the size of the test hole from 4" to 3" reducing the contract unit price from \$2.00 to \$1.00, and thereby decreasing the total price \$390. The final contract amount was \$7,645. The pilot hole was drilled to a depth of 1043 feet. At this depth the drill stem was pulled out and an electric log was run by the U.S.G.S.

It was recommended that the screen be set at 960 feet. At this time the pilot hole was reamed to sufficient size to accommodate a 6-inch casing and a 2-inch thickness of grout around the outside of the casing. The 6" casing and grout ring were placed to a depth of 495 feet. Below this a 3" casing was installed to a depth of 945 feet. A 30' length of 3" outside diameter well screen was placed next. Below this, 68' of 3" casing was placed to reach the bottom of the pilot hole to insure having a solid footing for the pipe.

On June 15, 1965, development of the well was begun by cleaning, surging, and pumping. On June 17, the well was tested for drawdown during an 8 hour pumping at a rate of 23 gallons per minute. The drawdown was approximately 16 feet during the test. Recovery time was approximately 5 minutes. The static water level was at 185 feet. Final inspection and acceptance of the well was on June 23, 1965.

A schematic diagram of the well installation and a copy of the pumping log are attached.

Water Distribution System - Witch Dance:

A water distribution system was installed as a portion of Contract No. 14-10-0127-1730 by subcontractor, Commercial Heating and Air Conditioning Company, Post Office Box 678, Tupelo, Mississippi 38801. The system was built substantially in accordance with Drawing No. KY-WT 3323. A 200 gallon water pressure tank was installed in the utility room of the comfort station. The pressure tank has a float control switch to actuate the water pump.

A 1½ inch galvanized steel water line connects the drinking fountains to the distribution system. The drinking fountains were built substantially in accordance with plans and specifications.

A chemical analysis of water from this system was made on June 25, 1965, and a copy is attached.

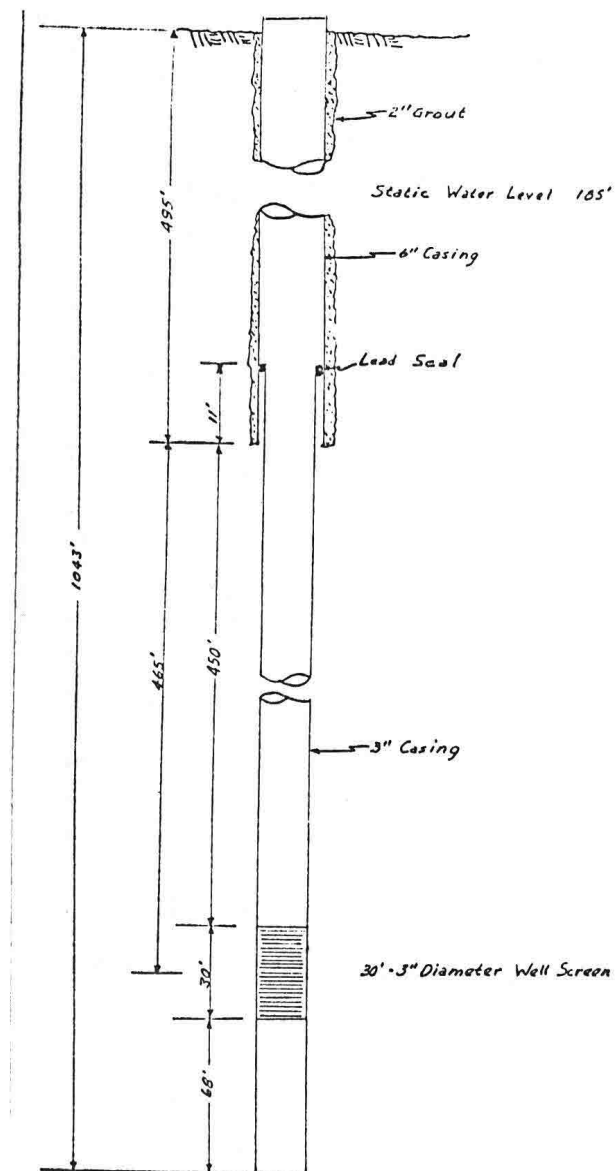
Water Well Pump - Witch Dance:

A 2HP Jacuzzi Submergible Pump, 230 volt, single phase, complete with 1 $\frac{1}{2}$ " drop pipe, well seal, and electric cable was purchased at a cost of \$544.94, and installations and electrical connections were made by day labor. The pump is capable of pumping 1280 gallons per hour at 40 psi.

Sewerage System - Witch Dance:

The sewerage system constructed as a part of Contract No. 14-10-0127-1730 was designed to handle waste from the comfort station, building No. 267. The system consists of a 1500 gallon septic tank and a 900 square foot sand filter. The system was constructed substantially in accordance with MCY-NT 3323 except the location of the sand filter was moved to better fit the existing topography.

A sketch of Witch Dance Picnic Area showing comfort station and utilities is attached.



LOG OF WATER WELL
Witch Dance Picnic Area
Section 3F1
NATCHEZ TRACE PARKWAY

HERNDON - HOMAN WELL & SUPPLY CO, INC

RECORD OF TEST

SHANNON, MISS.

NATCHEZ TRACE PA
TUPELO, MISS.
RECEIVED

OCT 1 1965

Referred to	Referred to
Supt.	Asst. Supt.
Asst. Supt.	Asst. Supt.
Asst. Supt.	Asst. Supt.
Asst. Supt.	Asst. Supt.
Asst. Supt.	Asst. Supt.

WELL NO. 1 PUMP NO. — DATE June 17, 1965FOR Natchez Trace ParkwayCITY Tupelo STATE Miss.LOCATION Nancy (Witch Dance) Picnic Area (Chal. Co. 14-10-0121-1720) (FEET)

AIR LIFT TEST

GUARANTEED GPM — AT — (POUNDS)BLOWOFF PRESSURE — POUNDS STATIC LEVEL 185 FEETRUNNING PRESSURE — POUNDS ACTUAL LENGTH OF WATER LEVEL — Draw-DownLENGTH OF AIR LINE — FEET MEASURING AIRLINE — FT. — IN.

TIME	PUMP 2 HP		AIR LINE GAGE LBS. FT.	DRAW-DOWN	INCHES "X" WEIR OR ORIFICE	GPM	PR.	AIR	DRAW-DOWN	IN.	GPM
	RPM	PRESSURE LBS. FT.									
9:42 A.M. P.M.	3450	185'	—	—	—	—	—	—	—	—	—
10:00 A.M. P.M.	"	200'	—	15'	—	23	—	—	—	—	—
10:15 A.M. P.M.	"	200'5"	—	15'5"	—	23	—	—	—	—	—
10:45 A.M. P.M.	"	200'7"	—	15'7"	—	23	—	—	—	—	—
11:15 A.M. P.M.	"	200'7"	—	15'7"	—	23	—	—	—	—	—
A.M. P.M.	Shut Down - Recovery Time 5 minutes										—
11:20 A.M. P.M.	"	185'	—	0	—	0	—	—	—	—	—
11:25 A.M. P.M.	"	200'	—	15'	—	23	—	—	—	—	—
11:30 A.M. P.M.	"	200'8"	—	15'8"	—	23	—	—	—	—	—
12:00 A.M. P.M.	"	200'8"	—	15'8"	—	23	—	—	—	—	—
A.M. P.M.	"	200'8"	—	15'8"	—	23	—	—	—	—	—
12:00 P.M. A.M.	"	200'8"	—	15'8"	—	23	—	—	—	—	—
A.M. P.M.	"	201'	—	16'	—	23	—	—	—	—	—
12:00 P.M. A.M.	"	201'	—	16'	—	23	—	—	—	—	—
A.M. P.M.	"	201'	—	16'	—	23	—	—	—	—	—
12:00 P.M. A.M.	"	201'1"	—	16'1"	—	23	—	—	—	—	—
A.M. P.M.	"	201'1"	—	16'1"	—	23	—	—	—	—	—
12:00 P.M. A.M.	"	201'1"	—	16'1"	—	23	—	—	—	—	—

0.2

20

continued

HERNDON - HOMAN WELL & SUPPLY CO, INC

RECORD OF TEST

SHANNON, MISS.

WELL NO. 1 PUMP NO. — DATE June 17, 1965FOR Nathaniel Trice ParkwayCITY Tupelo STATE Miss.LOCATION Dancey (Witch Dance) Picnic Area

AIR LIFT TEST

GUARANTEED GPM — AT — (FEET) (POUNDS)BLOWOFF PRESSURE — POUNDSSTATIC LEVEL 185 FEETRUNNING PRESSURE — POUNDSACTUAL LENGTH OF WATER LEVEL — FEETLENGTH OF AIR LINE — FEETMEASURING AIRLINE — FT. — IN. — DOWN

TIME	PUMP		AIR LINE GAGE	DRAW-DOWN	INCHES ON "X" WEIR OR ORIFICE	GPM	PR.	AIR	DRAW-DOWN	IN.	GP
	RPM	PRESSURE LBS. FT.	LBS. FT.								
A.M.	3450										
4:30 P.M.		201' 1"	—	16' 1"	—	23	—	—	—	—	
A.M.	"	201' 1"	—	16' 1"	—	23	—	—	—	—	
5:00 P.M.											
A.M.		Shut Down - Recovery Time 6 minutes									
P.M.											
5:06 A.M.	"	185'	—	0	—	0	—	—	—	—	
P.M.											
5:30 A.M.	"	201' 1"	—	16' 1"	—	23	—	—	—	—	
P.M.											
6:00 A.M.	"	201' 1"	—	16' 1"	—	23	—	—	—	—	
P.M.											
6:30 A.M.	"	201' 1"	—	16' 1"	—	23	—	—	—	—	
P.M.											
7:00 A.M.	"	201' 1"	—	16' 1"	—	23	—	—	—	—	
P.M.											
8:00 A.M.		Shut Down - Total Gallons Pumped 12,760									
P.M.											
8:00 A.M.	"	185'	—	0	—	0	—	—	—	—	
9:00 A.M.	"	185'	—	—	—	23	—	—	—	—	
P.M.											
2:40 A.M.	"	201'	—	16'	—	23	—	—	—	—	
P.M.											
A.M.		End of Test									
P.M.											
A.M.											
P.M.											
A.M.		This test was conducted with a 2 HP Tacumet Submer.									
P.M.		Pump M. Ref. 2540-52 and measured through a									
A.M.		3/4" water meter. The water levels were measured									
P.M.		by use of depth gauges.									
A.M.											
P.M.											

J. H. Homan, Jr., Secretary

FORM 1027-11-64:5M

Mississippi State Chemical Laboratory

State College, Mississippi

M. P. ETHEREDGE
STATE CHEMIST

June 30, 1965

Analysis No. 360,763

Analysis of WATER

Marked: New Well for Natchez Trace

Received on 6/25/65

from Herndon-Homan Well & Supply, Inc.

Address P. O. Box 42, Shannon, Mississippi

RESULTS:

Gentlemen:

We have analyzed the water brought to us by Charles Whitehead, and we report our findings as follows

PARTS PER MILLION

Total Solids - - - - -	296.40
Loss on Ignition - - - - -	1.60
Carbonate Radical, $\text{CO}_3^{=}$ - - - - -	7.20
Bicarbonate Radical, HCO_3^{-} - - - - -	153.70
Chloride Radical, Cl^{-} - - - - -	92.20
Nitrite Nitrogen - - - - -	0.00
Nitrate Nitrogen - - - - -	0.00
Ammonia Nitrogen - - - - -	0.50
Albuminoid Nitrogen - - - - -	0.00
Total Hardness as CaCO_3 - - - - -	31.20
Free Carbon Dioxide, CO_2 - - - - -	0.00

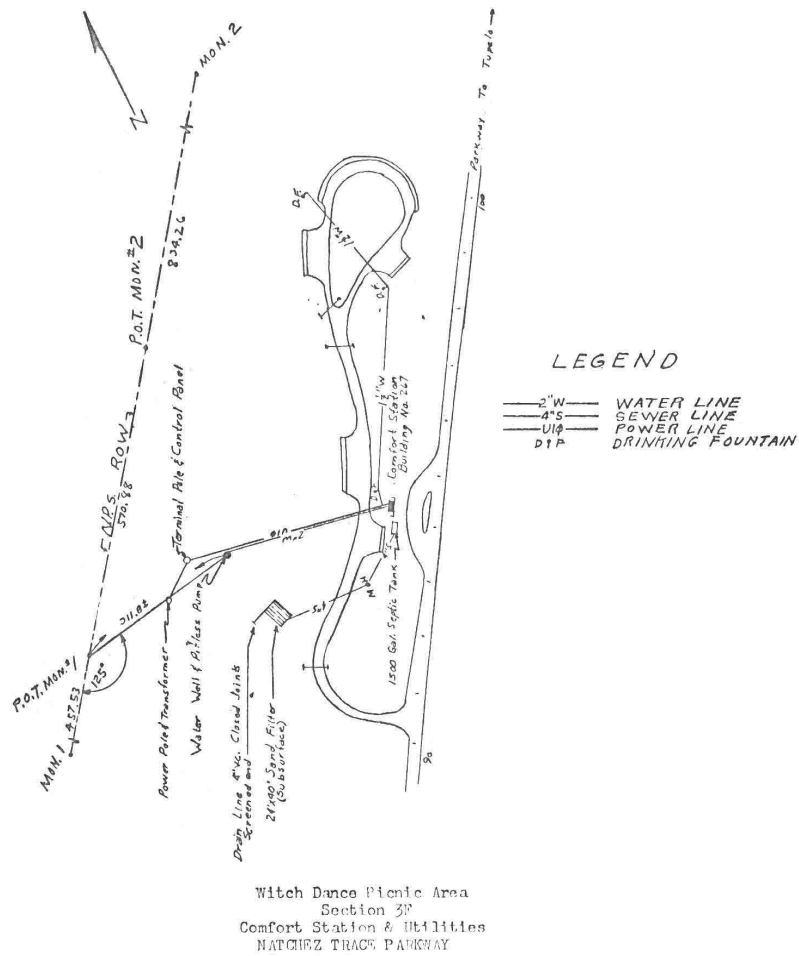
pH - - - - - 8.5

The dissolved solids are medium in amount, and these consist principally of sodium chloride and sodium bicarbonate. The total hardness of almost two grains per gallon indicates some calcium bicarbonate, together with a trace of calcium sulfate. We might finally add that a bit of sodium carbonate raises the pH of the water to 8.5 which is slightly on the alkaline side.

The absence of all forms of nitrogenous matter other than a bit of free ammonia might be indicative that there is no serious contamination of the water, and it should be safe to drink. You might, of course, have the local county health officer take a sample in a sterile bottle in order to send to the State Hygienic Laboratory at Jackson.

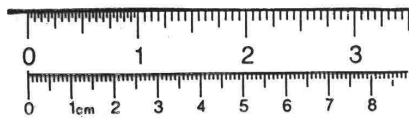
cc Natchez Trace Parkway
Tupelo, Miss.


State Chemist



Scale: 1"=200'

Sketch to accompany Project Completion Report



*This might be
checked as a water
supply rather than
drilling 1000' next time
The 1000' well seems to have lots of water
though*

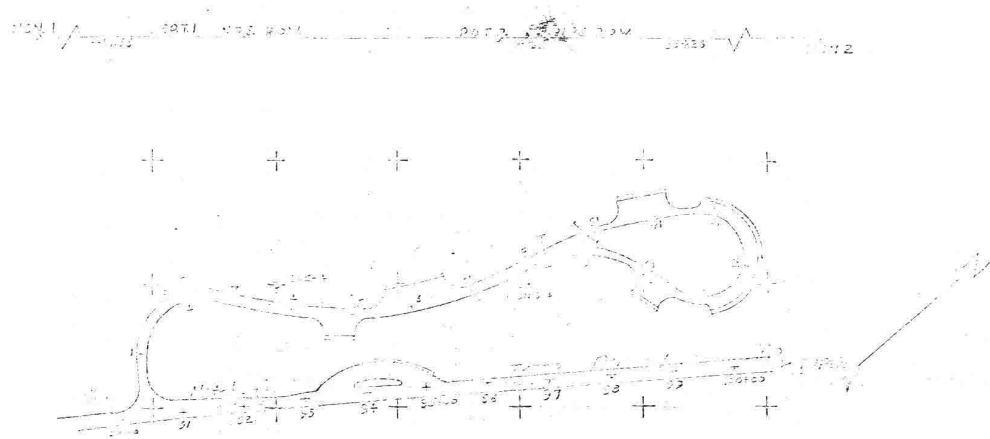
NARRATIVE TO ACCOMPANY PROJECT COMPLETION REPORT
DANCY (WITCH DANCE) PICNIC PARKING AREA
WITCH DANCE PICNIC AREA
SECTION 3-4
NATCHEZ TRACE PARKWAY
WORK ORDER NO. 225021

In November 1967 NPS forces began work preparing the subgrade for the Witch Dance Picnic Area roads and parking area. During the grading subsurface springs were encountered requiring extensive excavation, drain tiles, and backfilling to establish a stable base. Approximately 15 C.Y. of washed gravel, 120 feet of 4" underdrain, and 60 feet of 6" underdrain were used to drain the subsurface springs. The undercutting was backfilled and the roadway grading completed. One hundred fifty-two (152) feet of 12" concrete pipe culvert were used.

Approximately 12" of topping and 6" of clay gravel were used as a base. Approximate quantities were 2,500 C.Y. topping and 1,000 C.Y. of clay gravel. The topping was obtained from a local pit nearby, and the clay gravel was hauled to the site by Lawrence Palmer, Amory, Mississippi.

The roads and parking areas were constructed in accordance with Drawing No. PKY-WF 3367. The 6" curbs, walks, and paving of the roads and parking areas are not included under this work order but are reported under Work Order No. 225045.

All work under this work order was completed by September 1966.



WITCH DANCE PICNIC AREA
SECTION 3-F-1
NATCHEZ TRACE PARKWAY

Other Supporting Information

939-12-21-67

and
42

L54 WSC-OLW

December 20, 1967

Memorandum

To: Superintendent, Natchez Trace Parkway
From: Chief, Office of Land and Water Rights, WSC
Subject: Submission of water docket

We wish to acknowledge receipt of subject for Water Dockets Nos. 8, 11, 12, 13, and 16 and have noted the change in names for Water Docket No. 16 from Collinwood Substation Water System to Witch Dance Picnic Area Water System.

We have no changes or deletions to recommend at this time; however, the subject of additions will be discussed at greater length in a followup memorandum to be written by January 17, 1968.

Your interest and response to the development of water resources in the Parkway is appreciated.

Richard L. Stanton
Richard L. Stanton

cc:
Regional Director, SE
/Chief, Branch of Water Resources, WASO
Chief, D&C, PSC



UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
WASHINGTON PLANNING AND SERVICE CENTER
1730 NORTH LYNN STREET
ARLINGTON, VIRGINIA 22209

W.R. Copey.

IN REPLY REFER TO:
L54 WSC-OLW

November 14, 1967

Memorandum

To: Chief, Branch of Water Resources, WASO
From: Chief, Office of Land and Water Rights, WSC
Subject: Comprehensive study of water resources potential of
Natchez Trace Parkway

This office has been in contact with the Superintendent's office at Natchez Trace and with Mr. Comstock, Resource Planning, WSC. Mr. Comstock has just returned from Natchez Trace with the master plan team and had some revisions from the plan "Water Resources Study" submitted by the Superintendent of Natchez Trace with his memorandum of October 6 on subject. Mr. Comstock's ideas have been seconded by Mr. Glenn Farrar as relayed by this office.

In short the following changes are to be made on subject plan:
CHANGE "Lauderdale Park" to "Colbert Park" and "Colbert Park North" to "Lauderdale Park."

ADD the following proposed areas which are not shown on the drawing:

Natchez Visitor Center - located near the City of Natchez, Mississippi.
Jackson Visitor Center - located on Parkway between Highways 49 and 55
near the Ridgeland District Headquarters in Mississippi.
Metal Ford Historic Area - located between Jacks Branch Picnic Area and
Meriweather Lewis District Headquarters all in Tennessee.

DELETE the following from drawing:

Priority #7 - Highway 16 Concessioner Operations
Priority #8 - Highway 8 Concessioner Operations
Priority #11 - Tombigbee Horsetrail Parking Area

It is our understanding that the master plan team and the Superintendent do not envision any development at Highway 16 and Highway 8. In reference to Priority #11, Mr. Comstock states that the Tombigbee Horsetrail has

been relocated to an area next to the Witch Dance Picnic Area and that both physical facilities could share the existing water system at Witch Dance Picnic Area. We would appreciate your reviewing the Superintendent's October 6 memorandum with the following revisions in mind. Upon receipt of comments received from all offices, this office will prepare a memorandum report outlining the course of action to be taken.

A handwritten signature in dark ink, appearing to read "Richard L. Stanton". The signature is fluid and cursive, with a prominent "R" and "S".

Richard L. Stanton

cc:
Regional Director, Southeast
Superintendent, Natchez Trace
Chief, Resource Planning, WSC
Chief, PSC-D&C

SUPPLEMENTAL DATA FOR SPECIFICATION 717 - DRILLED WATER WELL
Dancy (Witch Dance) Picnic Area - Natchez Trace Parkway

The following information should be added to the corresponding numbered sections of the main body of SPECIFICATION 717:

1.1 General: The well covered by these specifications shall be drilled at the Dancy (Witch Dance) picnic area development on the Natchez Trace Parkway, which more specifically, is in Chickasaw County approximately 3900 feet west and 1000 feet south of common section corners numbers 30, 31, Township 13 South Range 3 East and 25, 36 Township 13 South Range 4 East.

A test hole for preliminary investigation\$ will be required.

The exact location of the hole will be staked in the field by the Contracting Officer.

The contractor shall cooperate fully with the representatives of the U. S. Geological Survey and allow them to electric log the well. A test hole, for the purpose of securing drill samples, electric logging of the well and investigating the water potentials will be required from ground surface to 1100 feet. If the test well is successful, the water supply well (production well) will be completed with 6" and 4" ID casing. The 6" casing will extend from one foot (1') above ground surface to 500 feet and the 4" casing will extend from the bottom of the 6" casing to the top of the screen.

A well screen will be required in the production well.

The casing for the production water well shall be grout sealed with a 2" minimum grout ring between outside of coupling and interior of hole for the entire length (0-500') of the 6" ID casing. The 4" ID casing is to be sealed to interior of bottom of 6" casing and extend to the screen. No grouting of 4" ID casing is required.

The anticipated yield of the well is 15-25 gpm/

1.2 Water Bearing Strata: It is anticipated that the well shall be developed at approximately 900' depth in the Eutaw Formation which is about 200 feet thick. The Ripley Formation is reported to lie from approximate ground surface to 150± feet. The Ripley Formation which contains exceptionally hard water with a very high iron content, will be required to be sealed off.

2.1 Casing: The 4"ID casing shall weigh not less than 10.5 pounds per foot including coupling.

2.4 Well Screen

a. Size: Substitute the following: The screen to be furnished and installed hereunder for a 4" ID casing shall have a minimum approximate outside diameter of three (3") inches and shall be of sufficient length, in combination with screen opening, to provide a minimum of 1-1/2 times the anticipated supply of water.

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Docket Information

Number of Documents in Docket 20

Documents Dated from 6/17/1965 to 12/20/1967

Docket Compiled: 5/27/2011