



# WATER-RIGHT DOCKET

## Natchez Trace Parkway

Docket No: 13

TUPELO HEADQUARTERS

Other Supporting Information

09-19-1967: memorandum to southeast region from natr regarding tupelo headquarters water system

154

Natchez Trace Parkway  
Tupelo, Mississippi 38801

September 19, 1967

RECEIVED  
NATIONAL PARK SERVICE  
WASHINGTON FIELD OFFICE  
SEP 21 10 41 AM '67  
EW 9/27

### Memorandum

To: Regional Director, Southeast Region  
From: Acting Superintendent, Natchez Trace  
Subject: Tupelo Headquarters water system

We noticed in our copy of a memorandum of July 27, 1967, from Mr. Swenson of the Washington Service Center a reference to an iron problem that allegedly exists at Tupelo Headquarters. This is probably a reference to Page 16 of the report entitled, "Memorandum on the Ground-Water Resources of the Natchez Trace Parkway Headquarters Area, Lee County, Mississippi," by Frederick H. Thomson. On March 16, 1967, we received a previous memorandum copy in this regard from Mr. Ketcham of the Washington Service Center, and by memorandum of March 21, 1967, we attempted to reply to that memorandum (directed through proper channels to you). We enclose a copy of that reply which we believe will clear up the matter and will show that we do not have an iron problem in the headquarters water system.

(SGD.) RICHARD H. BOYER

Richard H. Boyer

In duplicate

Enclosure 10

cc:  
/ Chief, Branch of Water Resources, WASO, w/c encl.  
Chief, Office of Land and Water Rights, WSC

Hatchez Trace Parkway  
Tupelo, Mississippi 38801

154

March 21, 1967

Memorandum

To: Regional Director, Southeast

From: Acting Superintendent, Hatchez Trace

Subject: Memorandum on the Ground-Water Resources of the  
Hatchez Trace Parkway Headquarters Area, Lee County,  
Mississippi, January 1967

We have received a copy of the memorandum of March 16, 1967, from Mr. Richard W. Ketcham. The well H41 to which Mr. Ketcham referred was a test well drilled into the Tuscaloosa formation. This well was sealed off and is not being used. H41A is the well which was completed and is now in use as part of the headquarters water system. This is explained on Page 17 of the subject report.

Richard H. Boyer

In duplicate

cc:  
Chief, Design and Construction, WSC  
Chief, Design and Construction, PSC

GCFarrar:mk File

PROJECT STATUS UNDER WATER RESOURCES STUDIES AND WATER RIGHTS ACQUISITION PROGRAMSWashington Service Center  
(Service Center Office)1967  
(Fiscal Year)January 16, 1967  
(Date)Natchez Trace Parkway (SE)  
(Area)FUNDING STATUSM&PCONSTRUCTIONSec. 2-A (Ala.)(Site or Activity)  
Park participation  
Geological Survey  
PrivateAuthorizedObligatedPaidAuthorizedObligatedPaid

1,000 ✓

1,000

500 ✓

1,500 ✓

4,000 ✓

1,500

Secs. 1-H, 1-J (Tenn.)(Site or Activity)  
Park participation  
Geological Survey  
Private

1,000 ✓

1,000

500 ✓

1,500 ✓

5,000 ✓

1,500

Tupelo Hdqtrs. Well (Miss.)(Site or Activity)  
Park participation  
Geological Survey  
Private

360 ✓

625 ✓

15,105 ✓

4,842 ✓

625

2,508

Water Rights DefinitionPROJECT PROGRESSREMARKS

(Site or Activity)

(Ala.-Tenn.) See memoranda of request from E. W. Reed, September 23, 1966, and confirmation letters from W. R. Eaton, Acting Regional Hydrologist, U.S.G.S., of October 5 for Tennessee and October 25 for Alabama. Submission of specifications to Superintendent resulted in phone message from Engineer Glenn Farrar (about Dec. 23) regarding use of their own contract specs. for 3 wells. Engineer John Saxon was advised by phone call from WSC to proceed on park's plan. Specifications now complete, and wells for all 3 locations (Secs. 2-A, 1-H, and 1-J) will be drilled under one contract.

(Site or Activity)

(Miss.-Tupelo) Well is complete and pump is installed, pumphouse and tie to system complete, and automatic controls being installed.

(Site or Activity)

Work is proceeding on revision and up-dating of water dockets for entire Parkway.

WR  
ENC  
9/26

September 23, 1966

LS4-SLN

Memorandum

To: Superintendent, Natchez Trace  
From: Chief, Branch of Water Resources  
Subject: 1967 F.Y. Water Resources Studies (M&P) and Water Rights Acquisition (Construction) Activities

Enclosed herewith is a copy of the Washington Service Center B work order, under the Water Rights Acquisition account, which authorizes the expenditure of \$33,932 for the water rights activities described therein.

You will note that \$15,105 of the total authorized represents the reinstatement of 1966 F.Y. funds and additional 1967 F.Y. funds to cover all costs associated with the completion of the Tupelo Headquarters well. We assume that this amount will be sufficient to meet the costs outlined in your memorandum of August 18. If B&U funds become available you should initiate action to reimburse the water rights acquisition account.

By this memorandum you are also authorized \$2,000 of M&P funds for U. S. Geological Survey assistance.

Mr. Richard Ketcham, who has been appointed as Supervisory Hydraulic Engineer, Office of Land and Water Rights at the Washington Planning and Service Center, is available to assist you.

(SIGNED)  
E. W. Reed

Enclosure

cc:  
Regional Director, Southeast  
Chief, D&C, FSC, w/c Supt. memo dated August 18  
Chief, Office of Land and Water Rights, WSC, w/c Supt. memo dated Aug. 18  
Mr. Reed

VABerte:ljc

✓

WR copy

Natchez Trace Parkway  
Tupelo, Mississippi 38801

D52

August 18, 1966

Memorandum

To: Director  
Attention: Chief, Branch of Water Resources

From: Superintendent, Natchez Trace

Subject: Completion of Water Well, Tupelo Headquarters Area

Within the next ten days we expect to complete work on the Test Water Well, Tupelo Headquarters Area, Contract No. 14-10-0131-1646, T. M. Parks Drilling Company, Houlka, Mississippi.

We have worked closely with the Jackson, Mississippi, office of the U. S. Geological Survey, and much information has been compiled. The U.S.G.S. will make a report which will include the commercial electric log, chemical analysis, etc.

The pumping test, conducted on August 16 and 17, along with the other information we have gathered, shows that the well will make an excellent producing well. We expect to make it a part of the Headquarters water system just as soon as possible, since we have had some difficulty with the existing well pump this summer. The estimated costs to do the above work are as listed below:

|                                                 |              |
|-------------------------------------------------|--------------|
| Well, including tests, etc.                     | \$11,350.00± |
| Pump, controls, etc.                            | 1,500.00±    |
| Pipe, valves, etc., and<br>connecting to system | 365.00±      |
| Small pumphouse                                 | 1,350.00±    |
| Electrical work                                 | 250.00±      |
| Total                                           | \$14,815.00± |

The programmed amount for the Tupelo well is \$13,865.00. Therefore, additional funds in the amount of \$1,000.00 are needed to complete the work. We understand funds are available.

Malcolm Gardner

In duplicate

cc:  
Regional Director, Southeast

WRcopy

Philadelphia Planning and Service Center  
Design and Construction  
143 South Third Street  
Philadelphia, Pa. 19106

L54-PP

May 4, 1966

S  
SLW  
Reed  
5/9  
WAS

Memorandum

To: Superintendent, Natchez Trace

From: Chief, Design and Construction

Subject: Draft of bid schedule and specifications for test well  
drilling at Tupelo Headquarters Area, Natchez Trace

The April 19 memorandum from Mr. Reed, Chief of Water Resources, has been received. The draft of bid schedule, specifications, and comments from Water Resources, U. S. Geological Survey, WASO, and you have been reviewed by Chief Engineer Cummings.

In view of the numerous reviews and marking up of the drafts, it is somewhat hard to sort out the comments of the various parties involved; therefore, the matter was reviewed in a general way.

It is suggested that when the project is put out for bids, the bid schedule be set up in conformance with Part II, Exhibit C-1, Page 1 of the Procurement and Contracting Handbook. We note that the present bid schedule draft indicates in the footnotes a pay item column. Since no pay item column is shown in your bid schedule this reference should be deleted as it is a carry-over from our standard specification.

We gather from the various comments that there appears to be a difference as to what the exact requirements of this project are. It is our understanding that since the Eutaw formation is the general aquifer in the area, it is the one to be located, tested, and if it proves satisfactory, the production well will be developed therein. In view of this, we do not think gravel packing will be required since it was not required in the existing well.

We believe that our Standard Specification 717 - Drilled Water Well can be readily adopted for this project. A supplemental data sheet such as was used on the Dancy (Witch Dance) Picnic Area Well will;

however, be required. The supplemental data sheet should, of course, include a paragraph on local conditions and geology, and a notation indicating the casing to be 8 inches instead of 6 inches as designated in the standard with a screen of approximately 7-inch O.D., so it can be installed through the 8-inch casing.

You will note that the standard specification has 19 different pay item numbers included to cover all types of test well or production well drilling that might be encountered throughout our area of operation. The proper pay items and names should be selected; therefore, for use in compiling the bid schedule. We are enclosing two copies of this standard specification and the supplemental data sheet for Dancy for your information and guidance.

If you see fit to use this standard specification, we have a numerous supply available which we would be pleased to send you.

In general, the various comments of the U. S. Geological Survey, Branch of Water Resources, and yours are very appropriate and together with the subject draft of bid schedule and specifications could be easily edited and included as required for a supplemental to the Standard Specification 717.

As requested by Chief Reed, the folder which he forwarded for our review is being enclosed.

If we can be of further help, please advise.

/s/ H. Reese Smith

H. Reese Smith

Enclosures 4

cc:  
Regional Director, Southeast, w/enclosures  
Branch of Water Resources, WASO, Attn: Mr. Bertey w/enclosures — D



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

P. O. Box 2052, Jackson, Miss. 39205  
December 6, 1965

Mr. Raymond O. Mulvany  
Acting Regional Director  
National Park Service  
P. O. Box 10008  
Richmond, Virginia 23240

Dear Mr. Mulvany:

Returned herewith is the rough draft of the specifications for drilling a test well at the Tupelo Headquarters, Natchez Trace Parkway, which we have reviewed, marked up as we felt necessary, and to which we have attached several pages of comments. We have indicated on the accompanying sketch map the location area in which the Parkway Engineer may stake the exact well location in order to prevent undue pumping interference between the two supply wells.

Enclosed also is a partial set of specifications which we used very effectively last summer in the drilling of a deep test well in western Tennessee, which may be of some use to your office. This test well, however, did not require the construction of a follow up production supply well at the site, but was completed as an observation well for our use.

It is suggested that if your Tupelo test well and the supply well are required to be on one contract then perhaps it would be better to put everything on a unit basis. It is difficult to specify, for example, how much casing is needed and the length of the screen section until the data from the test hole are available as a guide.

Your rough draft of specifications indicated 6-inch and 8-inch well casing diameters in several places. We assumed you wanted to stay consistently with one diameter, say 8-inch casing and 6-inch screen, which will give you a very adequate water supply. The requirement for a 3-inch gravel envelope would probably require setting at least an 8-inch casing, underreaming the sand section and screening with either 6-inch or 4-inch-diameter screen. A 6-inch gravelled-wall screen, effectively developed, should yield several times the 50 gpm requirement mentioned in the specifications.

A 4-inch well screen would probably allow yields greater than 50 gpm. For example, a supply well recently installed at Plantersville, about 10 miles southeast of the Tupelo Headquarters, has a 4-inch by 70-foot length screen, gravel-walled, and yields 200 gpm. The well has an 8-inch casing down to the water-bearing sand. It is our opinion that if a normal sand section is present at the Tupelo Headquarters (which will be indicated by the test well) a supply well equipped with 8-inch casing and 4-inch screen developed

IN REPLY REFER TO:

|                          |  |
|--------------------------|--|
| SOUTHEAST REGION         |  |
| DEC 8 1965               |  |
| Regional Director        |  |
| Asst. Reg. Dir., (O)     |  |
| Asst. Reg. Dir., (A)     |  |
| Asst. Reg. Dir., (CA)    |  |
| Asst. to Reg. Dir., (PA) |  |
| Asst. to Reg. Dir., (SI) |  |
| Resource Studies Adv.    |  |

in the natural formation (without a gravel pack) will furnish 50 gpm. Good development, of course, is of top importance. Gravel packing is not a cure-all for every situation. It does have its place where sand conditions require this design.

Prospective contractors for doing (1) the drilling and testing and (2) building the production well are listed below. They have had long experience in this area. The electric logging of the test hole might be left optional if financing the hole is a problem. It will cost approximately \$500 for a commercial firm to log the hole. In lieu of this, the Geological Survey can make a log with its portable machine which, however, is not nearly as detailed as the commercial log. Either will be very valuable in determination of the exact position of the section to be screened.

Robert Ratliff Drilling Company  
Grenada, Mississippi

Parks Drilling Company  
Houlka, Mississippi

Carloss Well Supply Company  
Memphis, Tennessee

Layne-Central Company  
Memphis, Tennessee

Sincerely yours,

A handwritten signature in cursive script, reading "Joe W. Lang".

Joe W. Lang  
Associate District Chief

Enclosures

JWL/fb

RECEIVED  
NATIONAL PARK SERVICE  
WASHINGTON OFFICE

OCT 8 1965

OCT 11 11 35 AM '65

LS4 SHR(OLW)

*Reed*  
*EW*  
*10/21*

Mr. Joe W. Lang  
District Geologist (GW)  
U. S. Geological Survey  
P. O. Box 3052  
Room 313, U. S. Post Office Bldg.  
Jackson, Mississippi 39205

Dear Mr. Lang:

We request technical assistance from the U. S. Geological Survey at Natchez Trace Parkway, Lee County, Mississippi pursuant to your telephone conversation with Mr. Vick on October 7, 1965.

It is our desire to have the USGS, Jackson Office, conduct a ground-water investigation in the vicinity of Tupelo Headquarters Area. The main purpose of such a study is to develop a deep well which would supplement the existing water supply. We understand from Mr. Vick that it was mutually agreed the study should consist essentially of the following:

1. An appraisal of the geologic and topographic factors that influence the occurrence of ground water.
2. Inventory of occurrence and magnitude of existing ground-water supplies in the immediate and surrounding areas.
3. Determination of chemical quality of existing ground-water supplies.
4. Make recommendations for test well drilling sites.
5. Provide technical assistance to the Service in preparation of drilling specifications as well as during the drilling and pump testing of the test well.
6. The project geologist will prepare an administrative report summarizing the results of the investigation.

The total cost of the above outlined USGS activities was estimated to be \$2,000. If any portion of the amount earmarked for the project is not used, the Survey will reimburse the unused amount to the Park Service.

**Funds in the amount of \$2,000 are available to cover the costs of this water resources project. The billing of all expenses for reimbursement to your appropriation should be handled directly with Superintendent Malcolm E. Gardner, P. O. Box 948, Tupelo, Mississippi 38802.**

**We request that any report prepared by the Survey containing geologic and hydrologic data collected during the investigation be submitted to the Park Service for review before it is released to the open file.**

**Your cooperation and assistance in this water resources matter is greatly appreciated.**

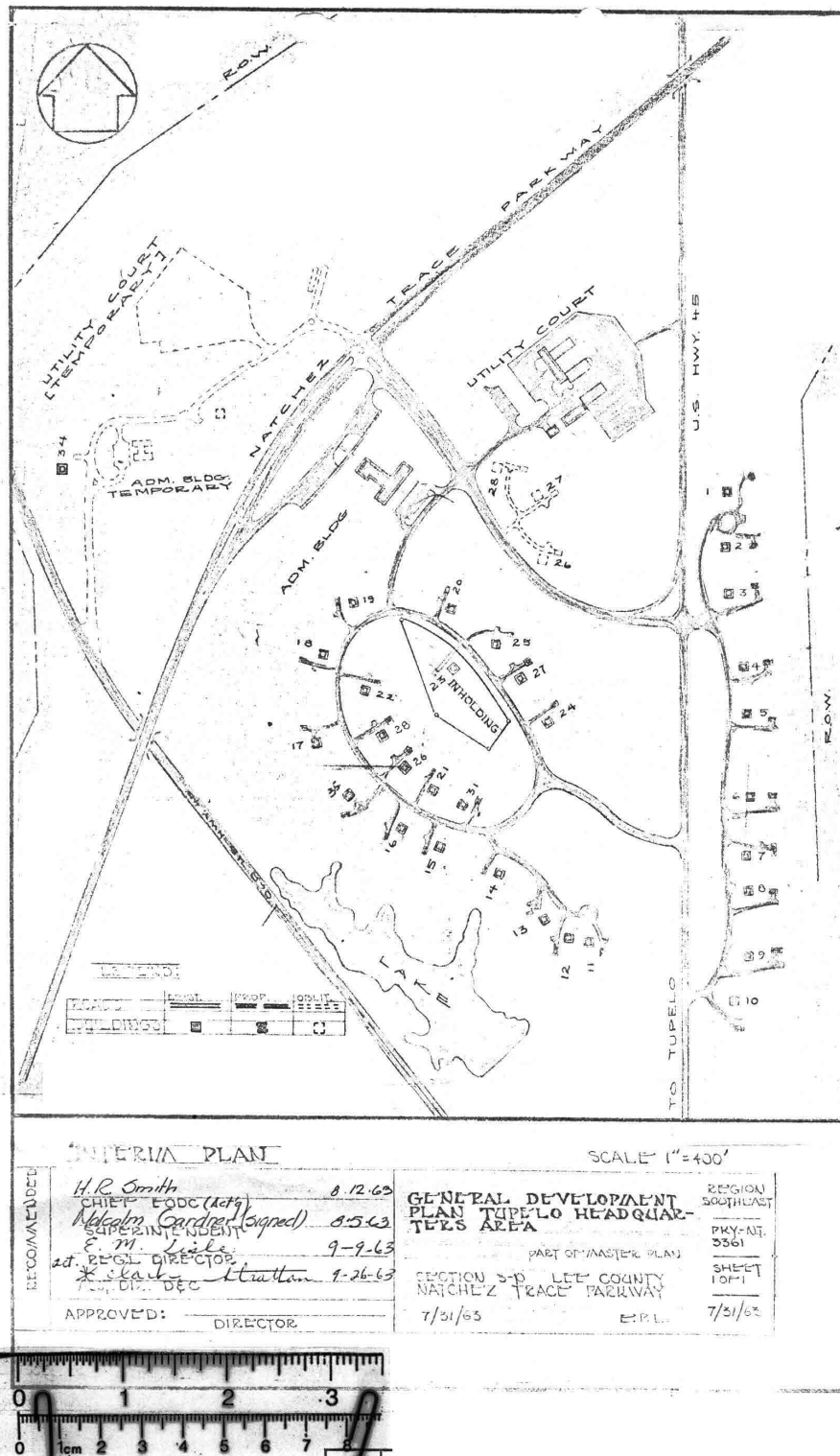
**Sincerely yours,**

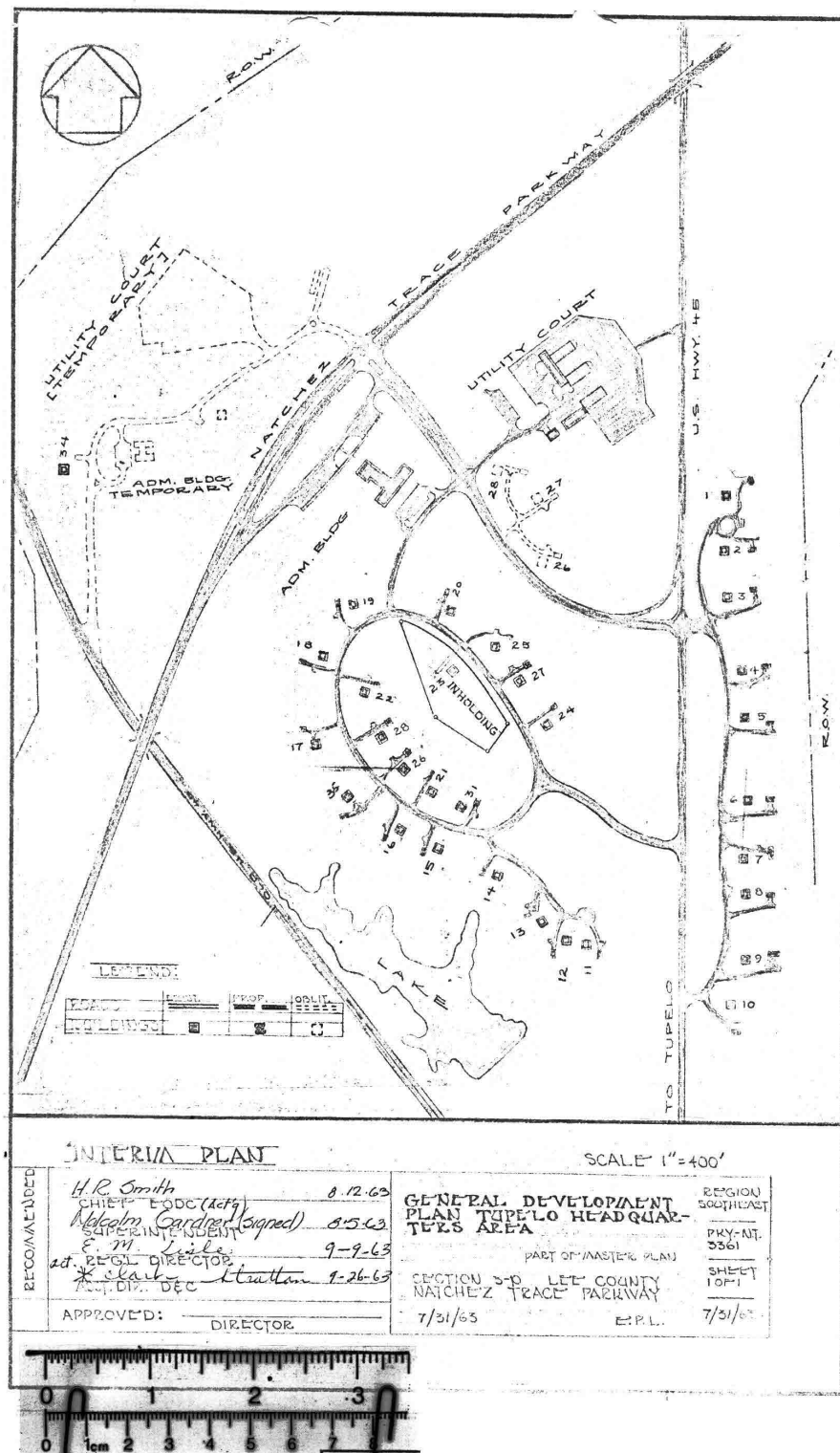
**SIGNED**

**E. M. Lisle  
Acting Regional Director**

**cc: ✓  
Director  
Supt., Natchez Trace Parkway**







### Docket Information

Number of Documents in Docket 14

Documents Dated from 7/31/1963 to 9/19/1967

Docket Compiled: 5/27/2011