



WATER-RIGHT DOCKET

Fort Donelson National Battlefield

Docket No: 1

GRIGGS HEADQUARTERS WELL & 4 WELLS

Land History

00-00-0000: option and contract to sell real estate to usa: contract no. 14-10-0100-1090

Contract no. 14-10-0100-1090

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

OPTION AND CONTRACT TO SELL REAL ESTATE
TO
THE UNITED STATES GOVERNMENT

THE UNDERSIGNED, hereinafter known as the vendor, in consideration of the examination and appraisal of the land hereinbelow described by the United States and other good and valuable consideration, the receipt of which is hereby acknowledged, does hereby agree for himself, ~~herself,~~ ~~or themselves,~~ or heirs, administrators, executors and assigns, as follows:

(1) That at any time within 6 months from the date of this instrument, if requested so to do by an authorized representative of the United States, the said vendor will sell and at his ~~own~~ ~~expense~~ ~~and~~ ~~at~~ ~~his~~ ~~own~~ ~~expense~~ ~~and~~ ~~at~~ ~~his~~ ~~own~~ ~~expense~~ own expense, convey, free of all encumbrances whatsoever, to the United States or its nominee by proper deed of conveyance with general warranty of title, under conditions hereinafter provided, all of that tract or tracts of land situate and lying in the County of Stewart State of Tennessee, containing 16.3 acres, more or less, and more particularly described as follows:

Starting at a concrete marker on the east side of Lock Road approximately 450 feet north of its intersection with U.S. Highway 79; thence by metes and bounds, as follows:

Bearings in Grantor's Deeds

Distance

N 11E	175 feet
N 7E	221 feet
N 12W	94 feet
N 10W	174 feet
N 14E	212 feet
N 65E	179 feet
S 70E	479 feet
S	993 feet +
S 65W	396 feet -
N 57W	425 feet

To the point of beginning located in the 7th Civil District of Stewart County, Tennessee. Being all of the land conveyed to George A. Griggs or George A. Griggs and wife, Julia Sanderson Griggs, by deeds recorded in Book 140, page 189; Book 150, page 516 and Book 146, page 79 in the Register's Office of Stewart County, Tennessee.

(2) That the price at which said land will be sold to the United States as hereinbefore provided shall be \$ 4,500.00.

(3) That in case the vendor is unable to show and establish title to the above-described lands satisfactory to the United States Government, then, and in that event, the vendor agrees that the United States may, in its discretion, institute condemnation proceedings for the acquisition of said lands and that the price hereinabove set forth is hereby agreed to by the vendor as to the value of the property to be acquired under said condemnation proceedings.

(4) That, at the date of this instrument, the title to said lands is clear, free and unencumbered, except _____

_____ which said vendor agrees to have released and has the full right, power, and authority to convey to the United States an unencumbered fee simple title to the aforesaid lands.

(5) That, when requested by the proper representative of the United States, at any time after the exercise of this option in the manner hereinafter specified, the said vendor will promptly at his or her own expense, furnish a deed, an abstract of title which shall later be extended to include any instrument subsequently required to be recorded by the United States in connection with the title to said lands to show unencumbered fee simple title or a title certificate, and will also record the deed of conveyance and/or other necessary papers made pursuant to this instrument; provided, that if said vendor fails to furnish a proper abstract of title, title insurance policy, or title certificate, within sixty (60) days after such request, then the United States may procure same at the expense of said vendor and deduct the cost thereof from the purchase price hereinabove set forth.

(6) That during the period covered by this instrument the said vendor does hereby grant to the officers and accredited agents and representatives of the United States, at all proper times, unrestricted right and privilege to survey or enter said lands for all proper and lawful purposes in connection with the negotiations for the acquisition thereof.

(7) That when the United States of America acting through the Secretary of the Interior, or other authorized representative, shall have accepted and signed this option for the purchase of the property as herein provided then, in that event, this instrument shall constitute a contract of bargain and sale between the parties hereto.

(8) No member of or delegate to Congress or resident commissioner shall be admitted to any share or part of this contract or to any benefit that may arise therefrom. Nothing in this paragraph, however, shall invalidate this contract if made with a corporation for its general benefit.

(9) The vendor or seller represents that he ☐ has, ☒ has not, employed or retained a company or person (other than a full-time employee) to solicit or secure this contract and agrees to furnish information relating thereto as requested by the contracting officer. (Vendor or seller shall check the appropriate box in this statement and if a company or person has been employed or retained to procure this contract, Standard Form 119 shall be completed by the vendor or seller and appended hereto).

(10) The undersigned grantor George A. Griggs does hereby grant to the United States of America and its assigns permission, authority, and license to drill a water well on the real property described above.

(11) It is understood and agreed that this option contract is null and void and of no effect unless and until a supply of water satisfactory to the United States is obtained from the drilled well or wells.

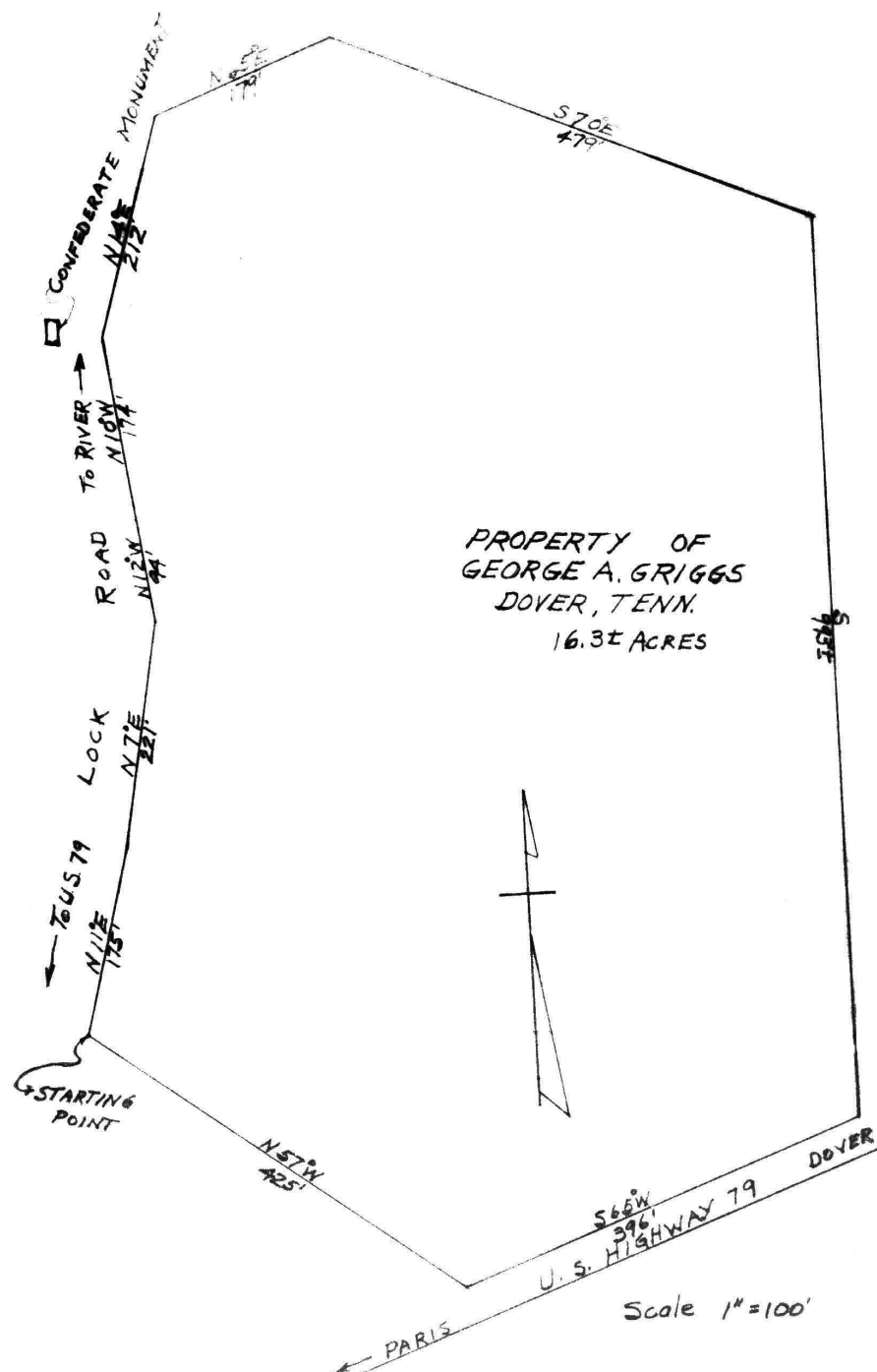
(12) Upon the abandonment of any hole or holes drilled, the United States agrees to effectively plug the hole or holes and restore the ground surface to a condition as near as reasonably possible to its condition at the beginning of drilling operations.

In witness whereof _____ have set
_____ hands and seals to these presents on this 23 day
of September, 1959.

Signed, sealed and delivered	(signed) George A. Griggs	(SEAL)
in the presence of:		
(2 witnesses to each signature)		(SEAL)
(signed) E. J. Pratt		(SEAL)
(signed) Clifford J. Harriman		(SEAL)
_____		(SEAL)
_____		(SEAL)
		(SEAL)

Approved OCT 1 1959
(Date)

Jackson E. Price
Assistant Director, National Park Service



Other Supporting Information

Region One
P. O. Box 5031
Richmond 20, Virginia

FEB 25 1960

WR Copy
Dunn
P Miller
Files

Memorandum

To: Chief, Eastern Office of Design and Construction
From: Acting Regional Director, Region One
Subject: Water Supply for Visitor Center, Fort Donelson National
Military Park.

Attached are copies of a chemical analysis of the water at sites 3
and 4 on the George Griggs property which were recently made by the
Tennessee Department of Conservation and Commerce.

This information was requested by Mr. DeSilets in his memorandum
dated January 5.

Superintendent Pratt pointed out in the attached memorandum that
wells 4 and 5 referred to on the chemical analysis forms correspond
to our previously designated wells 3 and 4.

E. M. Lisle
Acting Regional Director

Copy to: Superintendent, Fort Donelson NMP, w/original analyses

U.S. DEPARTMENT OF PUBLIC HEALTH
DIVISION OF SANITARY ENGINEERING

REPORT OF WATER ANALYSIS

F000 Site 3
Sgal. Raw Min.

TOWN Fort Danelson Military Park #4 COUNTY Stewart
SOURCE well MINER U. S. Park Service

LOCATION _____

SAMPLING POINT _____

COLLECTED BY O. Smith ANALYZED BY T. B. B. + B. L. H. + C. T. L.DATES: COLLECTED 3-3-60 RECEIVED 2-4-60 ANALYSED _____

REMARKS _____

ALKA- LITY (CaCO_3)	PHENOLPHTHALEIN 0 P.P.M.		POTASSIUM (K) P.P.M.	
	METHYL ORANGE 152 "		HYDROGEN SULFIDE (H_2S) "	
HARDNESS (CaCO_3)	D.T. 126 "		DISSOLVED SILICA (SiO_2) "	
	CALCULATED P.P.M.	CARBONATE "	ACIDITY (CaCO_3) "	
		NON-CARBONATE "	CHLORINE (Cl_2) DEMAND "	
FREE CARBON DIOXIDE (CO_2) "			RESIDUAL "	
IRON (FE) 5.8 "			NITROGEN (N) "	
CHLORINE (CL) 6.0 "			AMMONIA "	
FLUORIDE (F) 0.2 "			ORGANIC "	
PH 6.9			NITRITE "	
SULFATE (SO_4) 0 P.P.M.			NITRATE "	
NITRATE (NO_3) "			TOTAL 217 P.P.M.	VOLATILE "
as CaCO_3 152 "				FIXED "
BICARBONATE (HCO_3) "			SUSPENDED 24 P.P.M.	VOLATILE "
as CaCO_3 0 "				FIXED "
HYDROXIDE (OH) "			DISSOLVED P.P.M.	VOLATILE "
PHOSPHATE (PO_4) "				FIXED "
SILICA (SiO_2) "			TEMPERATURE °C	
ALUMINUM (AL) "			TURBIDITY P.P.M.	
MANGANESE (MN) "			COLOR "	
CALCIUM (CA) as CaCO_3 100 "			ODOR: COLD HOT	
MAGNESIUM (MG) as CaCO_3 26 "				
SODIUM (NA) 8 "				

REMARKS: Hardness figures from each test are based on different calculations

TENNESSEE DEPARTMENT OF PUBLIC HEALTH
DIVISION OF SANITARY ENGINEERING

REPORT OF WATER ANALYSIS

NAME: Fort Donelson Military Park #5 **COUNTY:** Stewart **DATE:** 2-7-60
SOURCE: Well **OWNER:** U. S. Park Service

LOCATION: _____

SAMPLING POINT: _____

COLLECTED BY: O. Smith **ANALYZED BY:** B.L.H. T.D.B. - C.T.L.

DATES: **COLLECTED** 2-7-60 **RECEIVED** 2-9-60 **ANALYZED** _____

REMARKS: _____

ALKA- LITY (CaCO_3)	PHENOLPHTHALEIN 0 P.P.M.		POTASSIUM (K) P.P.M.	
	METHYL ORANGE 234 "		HYDROGEN SULFIDE (H_2S) "	
HARDNESS (CaCO_3)	Total 209 "		DISSOLVED SODIUM (Na) "	
	CALCULATED P.P.M.	CARBONATE "	ACIDITY (CaCO_3) "	
		NON-CARBONATE "	RESIDUAL "	
FREE CARBON DIOXIDE (CO_2) "			DE- GAS- ING (O_2)	DEMAND "
IRON (Fe) 0.5 "			NITROGEN (N)	AMMONIA "
CHLORIDE (Cl) 5. "				ORGANIC "
FLUORIDE (F) 0 "				NITRITE "
PH 7.6				NITRATE "
SULFATE (SO_4) 30. P.P.M.			RESIDUE	TOTAL VOLATILE "
NITRATE (NO_3) "				P.P.M. FIXED "
BICARBONATE (HCO_3) as CaCO_3 234 "				SUSPENDED VOLATILE "
CARBONATE (CO_3) 0 "				P.P.M. FIXED "
HYDROXIDE (OH) "				DISSOLVED VOLATILE "
PHOSPHATE (PO_4) "				P.P.M. FIXED "
SILICA (SiO_2) "			TEMPERATURE °C	
ALUMINUM (Al) "			TURBIDITY P.P.M.	
MANGANESE (Mn) "			COLOR "	
CALCIUM (Ca) as CaCO_3 176 "			ODOR: COLD HOT	
MAGNESIUM (Mg) as CaCO_3 23 "				
SODIUM (Na) 3 "				

REMARKS: Hardness figures in enclosed letter are based on different calculations.

FORT DONELSON
LeHer File (Temporary)
Region One
Richmond SO, Virginia

Turned
P Miller
Files

Memorandum

To: Chief, S.O.W.C.
From: Regional Director
Subject: Water Supply for Visitor Center

We are attaching copies of Mr. Pratt's memorandum of January 16, the well driller's log and a table showing pertinent information on the test well drilling at Fort Donelson.

You will note in the attached memorandum that the well driller suggests using a sucker-rod type pump with a 2½ inch drop pipe which should produce 4 gallons per minute.

We will be glad to secure additional information on the test-wells, if needed.

Albert Cox
Regional Director

Attachments

Copy for: Supt., Ft. Donelson N&P

Vick:vm
General
Daybook

Mr. Dunn- Note: I will prepare the water docket files for the wells at Ft. Donelson.

Al Vick
1/20/60



UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

Fort Donelson National Military Park
Dover, Tennessee

January 16, 1960

RECEIVED REPORTED

L 54

REGION ONE	
JAN 18 1960	
☒	Asst. Dir.
☒	Asst. Dir.:
☒	Adm. Serv.
☒	Conservation
☒	Ext. Affairs
☒	Gen. Inv.
☒	Inter. Aff.
☒	Lab.
☒	Plan. & Insp.
☒	Rec. Mgmt.
☒	Spec. Inv.
☒	Training
☒	Public Aff.

Memorandum

To: Regional Director, Region One

From: Superintendent, Fort Donelson National Military Park

Subject: Water Supply for Visitor Center

This is in response to our telephone conversation with Messrs. Vick and Harrison on the 15th.

We attach herewith four forms covering the four well sites and the drilling operations as set down by the Contractor and taken from his log.

We also attach a Summary Table of all the operation. We hope this is something along the line as discussed.

The Well Drilling Contractor also installs and services pumps and equipment. In fact, he is the best serviceman in this section of the State. The Driller has recommended a sucker-rod type pump with a 2 1/2-inch drop pipe which will produce about 4 gallons per minute. Thought you would like to have his idea on the installation.

Let us know if we can furnish additional information and we will supply it as soon as possible.

E. J. Pratt
E. J. Pratt
Superintendent

Attachments - 5

RECORD OF WELLFORT DONELSON NATIONAL MILITARY PARKGEORGE W. HARRIS' PROPERTYTEST WELL NO. 1

Date	Remarks
10/20/59	Arrived at well site, set up rig and began drilling at 10:30 a.m. Drilled through 55 feet of <u>overburden</u> and struck first strata of ~~off~~ white limestone. Depth 55 feet end of day.
10/21/59	Drilled through 49 feet of <u>limestone</u> and struck first strata of <u>flint</u> at 104 feet. Drilled 6 feet in flint. Depth at end of day 110 feet.
10/22/59	Drilled all day in <u>flint</u> . Depth at end of day 135 feet.
10/23/59	Drilled through <u>flint</u> at 155 feet and entered second strata of <u>limestone</u> ~~at~~ . Drilled 16 feet in <u>limestone</u> . Depth at end of day 171 feet.
10/24/59	Drilled part of day to depth of 178 feet. Rain stopped operation.
10/27/59	Drilled in limestone to depth 210 feet.
10/28/59	Drilled in limestone to 280 feet. Struck 2nd strata of flint and abandoned well.
	Remarks: A small amount of water was found at 280 feet on top of the flint. Tests show static level 250 feet; drawdown 30 feet; yield 1 1/2 gal per min.

O. L. Norman & Sons


 James R. Norman
Partner

RECORD OF WELLJOSE DONELSON NATIONAL MILITARY PARKGEORGETOWN PROPERTYTEST WELL NO. 2

Date	Remarks
11/2/59	Moved rig and set up at Site No 2. Drilled 82 feet in overburden struck limestone rock. Depth end of day 82 feet.
11/4/59	No work due to bad weather.
11/5/59	Resumed test hole to rock and installed casing.
11/6/59	Drilled to depth 118 feet in limestone. Struck small crack which yielded 50 gallons per hour.
11/7/59	Drilled through limestone and struck flint at 130 feet. Depth at end of day 145 feet.
11/9/59	Drilled in flint to depth 165 feet.
11/10/59	Drilled through first strata of flint and entered second strata of limestone at 190 feet. Depth at end of day 198 feet.
11/11/59	Drilled in limestone to depth of 237 feet.
11/12/59	Drilled in limestone to depth of 285 feet. Yield increased to 100 gallons per hr.
11/13/59	Drilled to 2nd strata of flint at depth 300 feet. Yield increased to 2½ gallons per minute.
	After 24 hours, static level was 78 feet; drawdown two feet; yield 2½ gal. per min.

O. L. Norman & Sons

 By: James R. Norman
 Partner

RECORD OF WELLFORT DONELSON NATIONAL MILITARY PARKGEORGE BRIGGS' PROPERTYTEST WELL NO. 3

Date	Remarks
11/20/59	Moved rig to Site No. 3 and drilled in overburden for depth of 40 feet.
11/21/59	Drilled in overburden, struck coarse gravel at 155 feet, drilled to depth of 172 feet in gravel and struck water stream with yield 5 gallons per minute. Depth end of day 172 feet.
11/25/59	Drilled in gravel, installed casing. Depth end of day 176 feet.
12/2/59	Drilled through gravel struck limestone at 177 feet, drilled in limestone to 188 feet. Struck slanting rock moved to new site.
	Static level 121 feet; drawdown <u>4</u> feet, time <u>8</u> minutes. Yield 5 gal. per min.

O. L. Norman & Sons

By: James R. Norman
Partner

RECORD OF WELLFORT DONELSON NATIONAL MILITARY PARKGEORGE CRIGGS' PROPERTYTEST WELL NO. 4

Date	Remarks
12/3/59	Set up rig and drilled 25 feet in overburden
12/4/59	Drilled through overburden to limestone. Depth 135 feet end of day
12/8/59	Drilled 35 feet in limestone and struck first strata of flint at 170 feet. Depth end of day 180 ft.
12/9/59	Drilled in flint. Depth end of day 200 feet.
12/14/59	Drilled 40 feet in flint and struck limestone at 240 feet, picked up 20 gal. per. hr. of water. Depth end of day 240 feet.
12/15/59	Drilled in limestone to depth of 305 feet, struck small crack and yield was 2½ gal. per. min. Depth end of day 305 feet.
12/16/59	Drilled in limestone and struck 2nd strata of flint at 337 feet. Drilled to 342 feet by end of day. Well drilling stopped by contracting officer until further notice. Static level 131 feet Drawdown 2 feet; time 10 min. Yield 2½ gal. per. min.

O.L. Norman & Sons

James P. Norman
 Partner

SUMMARY TABLE OF TEST WELL DRILLING

PORT DONNELSON NATIONAL MILITARY PARK

GEORGE GRIGGS' PROPERTY

Test Well No.	Overburden Depth In Feet	Limestone 1st Strata Depth In Ft.		Flint 1st Strata Depth In Feet	Limestone 2nd Strata Depth in Ft.		Flint 2nd Strata Depth In Feet	Static Level	Drawdown		Yield Gal. Per. Min.
		White	Gray		White	Gray			Feet	Time	
<u>ONE</u> Started - 10/20/59 Finished - 10/28/59	55	49	-	51	75	50	-	250	1	2 min.	1 1/4 gal. per. min.
<u>TWO</u> Started - 11/2/59 Finished - 11/13/59	82	48 Struck water at 105 ft. 1 gal per min.	-	60	15 285 ft. well pro- duced 2 1/2 gal. per min.	95	-	78	2	12 min.	2 1/2 gal. per. min. after continuous drawing for 2 hrs.
<u>THREE</u> Started - 11/20/59 Finished - 12/2/59	172 Struck 5 gal. per. min. on top of rock	16	-	-	-	-	-	121	4	8 min.	5 gal. per. min. after drawing for 2 hrs.
<u>FOUR</u> Started - 12/3/59 Finished - 12/16/59	135	35	-	70	97 Water at 105 ft. 2 1/2 gal. per. min.	-	5	131	2	10 min.	2 1/2 gal. per. min.



UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
Region One
Richmond 20, Virginia

IN REPLY REFER TO:

154

WRC/efg
Docket?

Memorandum

To: Director
From: Acting Assistant Regional Director
Subject: Water Supply, Visitor Center, Fort Donelson NMP

Attached for your information are copies of Superintendent Pratt's memorandum of January 12 (with attachments) and a memorandum dated January 15 to this office from Mr. DeSilets, Acting Chief of EODC, concerning the development of Well No. 3 to provide a supply of water for the visitor center.

We have requested Superintendent Pratt to send us the well driller logs of all test wells and the results of the pump tests conducted by the well driller. This data will be placed in the Water Docket files which are to be prepared by this office.

H. Reese Smith
H. Reese Smith
Acting Assistant Regional Director

Attachments



UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

Fort Donelson National Military Park
Dover, Tennessee

January 12, 1960

REGION ONE	
JAN 14 1960	
Exec. Director	
Asst. Dir.:	
Adm. Serv.	
Ch. Ranger Act.	
Ch. Interpretation	
Ch. Admin.	
Ch. Rec. Mgmt.	

1/14/60
h. h.

Memorandum

To: Regional Director, Region One
From: Superintendent, Fort Donelson NMP
Subject: Water Supply for Visitor Center

In accordance with Mr. Smith's memorandum dated January 8, we submit two drawings showing the location of the four test wells drilled on the George Griggs property. We have measured the lines and scaled the locations on each drawing and believe them to be accurate.

You will note that the wells at Sites 3 and 4 are only 32 feet apart. Well at Site 3 produces 5-gal. per minute and well at Site 4 produces $2\frac{1}{2}$ gal. per minute.

In the event that the Drawings are not satisfactory please furnish necessary maps and we will locate the wells.

If we can be of further assistance at this end of the line, please advise.

E. J. Pratt
E. J. Pratt
Superintendent

Attachments - 2



UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
Eastern Office
Division of Design and Construction
Philadelphia 6, Pa.

January 5, 1960

REGION ONE	
JAN 6 1960	
Reg. Dir.	
Asst. Dir.	
Ch. Ranger Act.	
Ch. Interpretation	
Ch. Adm.	
Ch. Rec. Mgmt.	

1/11/60
JBL/12

Memorandum

To: Regional Director, Region One

From: Acting Chief, EODC

Subject: Water Supply for Visitor Center, Fort Donelson National Military Park

Your memorandum of December 22 furnishing information as to the results of the test drilling for a water well at Fort Donelson National Military Park is acknowledged. While we would like to have a more generous supply, we consider the 5-gallon per minute delivery for Well No. 3 to be adequate. The drilling of a fifth well is not recommended under the circumstances. It would appear advisable to leave the casing in place for either Well No. 2 or No. 4, whichever is closest to the Well No. 3 location for possible use in the future as a supplemental supply. We do not believe that this supplemental supply will ever become necessary but we do believe that retention of the casing is a reasonably small investment in the event some emergency should arise.

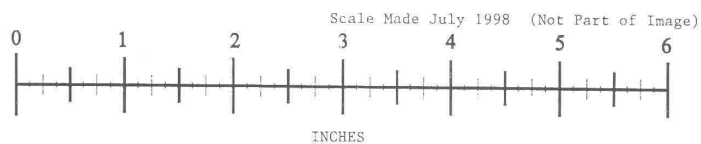
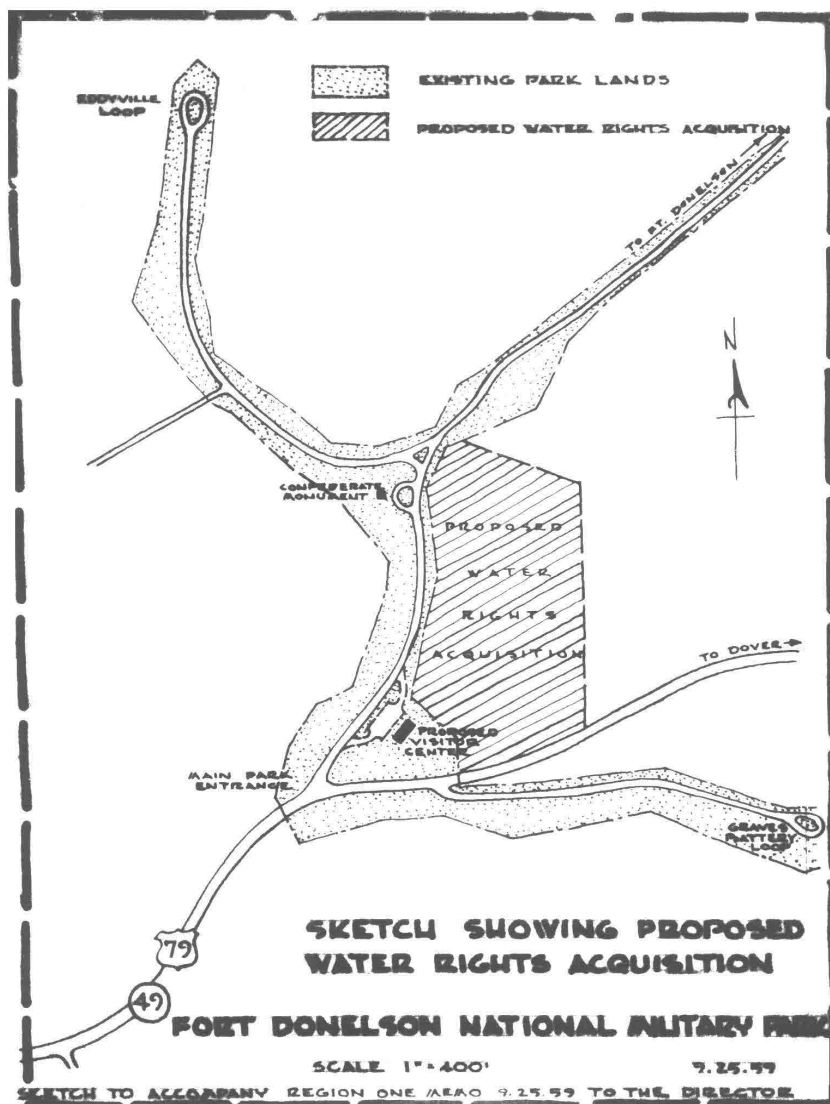
The well supply is so small that we intend to utilize an extra large pressure tank to provide for some reserve. We should obtain a chemical analysis of the water which we assume to be stable since it is derived from a limestone formation. We would appreciate receiving information as soon as possible as to the location of the well and the draw down characteristics.

Our estimates for the water demand at the Visitor Center are based upon a visitation of 1000 to 1500 visitors per day, of whom only 50% are expected to utilize the comfort facilities. Should the visitation exceed this, it would possibly make it necessary for the Park management to ask the visitors to use other facilities because of lack of water. We believe that this would only occur on very rare occasions.

Eugene R. DeSilets
Eugene R. DeSilets
Acting Chief

Copy to: Supt., Ft. Donelson NMP

Maps and Miscellaneous Information



Docket Information

Number of Documents in Docket 22

Documents Dated from 1/5/1960 to 2/25/1960

Docket Compiled: 3/21/2011