



WATER-RIGHT DOCKET

Moore's Creek National Battlefield

Docket No: 1

MOORE'S CREEK 6" WELL

State Water Rights Documentation

12-23-1957: memorandum to director from regional chief of operations regarding record of well

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
REGION ONE
RICHMOND, VIRGINIA

In reply refer to:
B5039

*Gifted to
original sent to Bury
Project Jacket*

DEC 23 1957

Memorandum

To: The Director

From: Regional Chief of Operations

Subject: Record of Well - Moore's Creek National Military Park

I attach in duplicate Record of Well form for a recently drilled well in Moore's Creek National Military Park. A copy of the Superintendent's cover memorandum is also included.

(S)

H. Reese Smith
Regional Chief of Operations

Attachment

0507

**Moore Creek National Military Park
Currie, North Carolina**

December 18, 1957

Memorandum

To: Assistant Coordinating Superintendent, Moore Creek
From: Superintendent, Moore Creek NMP
Subject: Deep Well Construction

Attached are the signed forms 10-131, (2), for the payment of the newly constructed deep well at Moore Creek.

Attached also is a copy of the Record of the Well.

Mr. J. A. Eckert, USPHS, EODC, arrived here at 4:00 o'clock p.m., December 16. December 17, the final testing of the well was made and approval given by Mr. Eckert.

I observed the drilling procedure of the well very closely and feel that we have a better than average well.

(Sgd) George C. Blake

George C. Blake
Superintendent

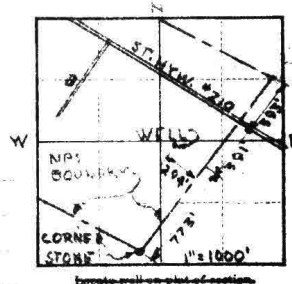
Copy to: Regional Director, Region One

Attachments - 3

REGION ONE	
DEC 20 1957	
Mr. Director	
Asst. Dir.:	
Ch. Operations	
Ch. Ranger Act.	
Ch. Interpretation	
Ch. Insp.	
Ch. Rec. Res. Pl.	

9-1255
Jan. 1927UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES DIVISION

RECORD OF WELL



1. Location: State North Carolina County Pender
 Nearest P. O. Currie, N. C. Direction from P. O. East
 Distance from P. O. 1 miles; 1/4 sec. _____, T. _____, R. _____
 If in city, give street and number _____
2. Owner: Moores Creek National Military Park Address Currie - North Carolina
 Driller: Wilmington Well & Pump Co. Address 2808 Market St. Wilmington, N. C.
3. Situation: Is well on upland, in valley, or on hillside? Upland
4. Elevation of top of well: 26 ft. Above the level of Sea - 0
 (Above or below) (Sea, depot, lake, or stream)
5. Type of well: drilled; kind of drilling rig used solid tool
 (Dug, driven, bored, or drilled) (Solid tool, jetting, rotary, etc.)
6. Depth of well: 184 ft.; year in which well was finished 1977
 Does well enter rock? yes; if so, at what depth? 165 ft.; kind of rock granite
7. Diameter: At top 4 inches; at bottom 4 inches.
8. Principal water bed: sand
 (Gravel, sand, clay, or rock. If rock, state kind)
 Depth to principal water bed 167 ft.; thickness of bed 17 ft.
 If other water supplies were found, give depth to each 22, 107
9. Casings: Kind galv.; size 4"; length 165 ft.; between depths of 0 and 165 ft.
 Kind _____; size _____; length _____ ft.; between depths of _____ and _____ ft.
 Kind _____; size _____; length _____ ft.; between depths of _____ and _____ ft.
- Packers (if any): Depth at which packers were used 160; kind lead
- Screen or Strainer: Was well finished with screen? yes; kind of screen brass
 length of screen 15 ft.; diameter 4 inches; size of openings 12 slot
10. Head: Does well at present overflow without pumping? yes; did it overflow when new? yes
 if flowing, give pressure _____ lb. per sq. inch; or height water will rise in a pipe _____ ft. above surface
 original pressure or head _____; if not flowing, give water level in well _____ ft. below surface
11. Pump: Is the well pumped? _____; kind of pump not yet installed
 size or capacity of pump _____; kind of power _____
12. Yield: Natural flow at present (if any) 5 gallons per minute; original flow 5 gallons per minute
 well has been pumped at 43 gallons per minute continuously for 6 years
 quantity of water ordinarily obtained from well _____ gallons per day.
13. Use: For what purpose is the water used? public use
14. Quality of the water: _____; is there an analysis? _____
 (Hard, soft, fresh or salty, etc.)
15. Cost of well, not including pump \$135.40 Temperature of water 60
- Name of person filling blank: J. A. Robert, (USPIS) NODC-SP2
- Date Dec. 17, 1977 Address Currie, North Carolina

(On the back of this sheet give the record of the beds through which the well passes and any other facts not given above.)

LOG OF WELL

[illegible]

Land History

Remarks: Transferred from War Dept. to National Park Service by Executive Order #6166 dated June 10, 1933 pursuant to Act of Congress approved March 3, 1933 (47 Stat. 1517)

**Estimated value at time of acquisition (1933), furnished by Custodian
Oswald E. Camp:**

Land	\$ 400
Residence	1,000
Monuments & Markers	2,800
Concrete road	300
Other roads	200
Temporary buildings	300
Bridge reconstruction	250
Artesian wells	250
Fence (boundary)	200
Total	\$ 5,800

NATIONAL PARK SERVICE
LAND OWNERSHIP RECORD

State North CarolinaTract No. 2County PenderDeed No. 2

Civil Subdivision _____

Area 12.23 acres Moore's Creek National Military Park

Name of Park or Area

Area based on survey of Henry A. Colvin, C.E. Date March 20, 1907 North and East

Section of Park or Area

Legal Description: BEGINNING for the same at a stone corner set in the South edge of the old Stage Road, which point is described in an indenture made March 20, 1907, from Peter Simpson and his wife, Valerie, to His Excellency, Robert B. Glenn, Governor of the State of North Carolina, which indenture was filed and recorded March 25, 1907, in Book 54, page 414, Land Records of Pender County, North Carolina, and shown on a plat of survey dated March 20, 1907, by Henry A. Colvin, C. E., thence, following the lines of said indenture South 46° East 496.21 feet to a stone corner; thence South 37° 15' West 924.78 feet to a stone corner; thence departing from the lines of the indenture and survey aforesaid, North 62° 30' West 203.60 feet to a point, a nail set in the root of a dogwood
(continued on back of sheet)

Method of Acquisition: Donation Appropriation or Source of funds: _____~~Consideration~~ Estimated value: \$480Acquired from: State of North Carolina, by deed dated November 5, 1951. Recorded in Deed Book 307, Page 238.Accepted by Secretary (☒) Opinion of Att'y. Gen. title in U. S. (☒) date: February 20, 1953
Acting DirectorPhysical Characteristics: Slightly rolling; brush and light woodsImprovements on Land at time of Acquisition: NoneExisting or outstanding special use permits, reservations, rights, or rights of way: NoneReport Based on: Deed and related papersPrepared by: C. Smith (in part) date: March 1953Map References: Land Status Atlas Sheet for Moore's Creek National Military ParkRemarks: Land added pursuant to act of September 27, 1944 (58 Stat. 746).

Legal Description (continued):

STUMP; thence, parallel to the next to the last course, and distance 200 feet therefrom, North 37° 15' East 1,326.70 feet to a point on the boundary line between the property of the said Henry and William Walker; thence following the boundary line, North 62° 30' East 1,596.50 feet to a stake; thence North 37° West 60 feet to a point, which point is a stone set at the run of Moore's Creek on the East or left bank of the same, about 330 feet in a straight line about the new iron bridge; thence parallel to the boundary line between the property of the said Henry and the said Walker, and 60 feet therefrom, following the lines of the indenture of March 20, 1907, South 62° 30' East 726 feet to a point, a stone; thence, still following the lines of the indenture and survey aforesaid, South 7° 30' East 248.68 feet to the stone at the point of Beginning, containing for the whole 12.23 acres, more or less. See Book 193, Page 292, Registry of Pender County.



Supporting Hydro Data

*Rec'd from
SE Reg. 1/24/66*

SYDOR PUMP & WELL CO., INC.
WELL TEST INFORMATION SHEET

CUSTOMER: National Park Service DATE STARTED: 12/17/65

Southeast Regional Office-Richmond, Va. DATE COMPLETED: 12/17/65

LOCATION: Moore's Creek National Military Park WELL TEST NO.: 1

Currie, North Carolina - Pender County Contract #14-10-0131-1549
JOB NUMBER: 65-163

WELL DESCRIPTION: Sand or Screened Well (X) Rock Well ()

Total Depth 205 Ft. Size 6 " to 205' and " to "

Casing Depth 203 Ft. Screens Stancliff #30 S.S. 178-193

Construction: Domestic () Class II-B () II-A (X) I ()

Static Water Level 0 Ft. Measured December 17, 1965 Date

Description of Formations: Sand & clay

TEST PUMP: Turbine () Sumo (X) Piston () Air () Bailer ()

Pump Intake 200 Ft. Below Ground; Air Line Ft. Below Ground
Electric Tape

Size Pump Discharge Ft. Metering Device 2" Water meter

Description of Pump 6" Sumo - 10 HP 3Ph 220 Volt. 2-1/2" Drop pipe
with generator

TEST DATA: Static Level Before Installing Pump Ft.

Air Line PSI Before Starting Pump; Time of Measurement

Time Test Pump Started 6:30 A.M.; Time Test Pump Stopped 6:30 P.M.

Total Hours Pumped 12 Final Capacity 60 GPM @ 24 Ft.

Static Level Ft., Hr. Min. After Pump Stopped.

INSTRUCTIONS: For the first hour of pumping, take readings at least every 5 minutes
and thereafter at least every 15 minutes. Obtain two 1-gallon representative
samples of water near the end of the test. If possible, measure recovery for
time equal to 1/3 length of the test.

TIME OF READING HR: MIN.	ORIFICE READING INCHES	TIME TO FILL CONT. MIN SEC	AIR LINE PSI	TAPE READING FEET	PUMP DISCHARGE GPM	PUMPING LEVEL FEET	REMARKS - (e.g., water clear, cloudy, taking air, etc.)
6:30				9	60		Cloudy
6:33				12	"		"
6:36				16	"		"
6:39				20	"		"
6:42				24	"		"
6:45				24	"		"
6:48				24	"		"
6:51				24	"		"
6:54				24	"		"
6:57				24	"		"
6:60				24	"		"
7:15				24	"		"
7:30				24	"		Clear
7:45				"	"		"
8:00				"	"		"
9:00				"	"		"
10:00				"	"		"
11:00				"	"		"
12:00				"	"		"
1:00				"	"		"
2:00				"	"		"
3:00				"	"		"
4:00				"	"		"
5:00				"	"		"
6:00				"	"		"
6:30				"	"		"

DATE: 12/17/65 DATA BY: Mac Arthur Liles DATA SHEET NO. 1

Other Supporting Information

SOUTHWEST ASIAN

JAN 12 1966

Regional Director
Asst. Regional Dir.
Asst. Reg. Dir. [initials]
Asst. Reg. Dir. [initials]
Asst. to Dir. [initials]
Asst. to Dir. [initials]
Responsible [initials]

sent
1/12/66

In addition to the items listed above from the contract, the contractor did additional work in treating the well with chemicals to develop the zones and in surging the well on December 21, 22, 27, 28, with travel on December 20 and 29. The contractor may reasonably expect additional compensation for this time.

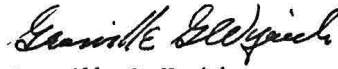
Mr. Elbert Cox

- 2 -

January 11, 1966

The work under the contract is completed but the well should be considered as a test hole until further tests have been made. We are presently working on the problem of the cloudy appearance of the water and hope, within a reasonable time to develop a solution to this problem.

Sincerely,



Granville G. Wyrick
Geologist

for Edward B. Rice
District Chief

cc: Mr. Russel Gibbs, Superintendent
Moores Creek National Military Park
Currie, North Carolina

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Form 10-174
(June 1962)UNITED STATES DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

FACE SHEET FOR COMPLETION REPORT

Park MOORES CREEK N M P		Region Southeast	Work Order No. 324- 211703
Location in Park RESIDENCE AREA		State(s) North Carolina	Fund Symbol 14X1035 (0343)
☒ Contract and/or ☐ Day Labor		County or Counties Pender	Year Programmed 1967
Work Order Title IMPROVE WATER SYSTEM			PCP No. U-7
			Master Plan No. 5/5/67 NMP-MC-30:36A (1 sheet)
			Master Plan Corrected By
			As Built Drawings By
			Date Started 11/26/66
			Date Completed 5/02/67
230 DESCRIPTION OF FIXED ASSETS (For completion by employee in charge of project)		TOTAL COSTS (For completion by FFO)	
Test Well Drilling 11/08/65 completed 12/30/65		5,910.	
Improve water system 11/26/66 to 5/02/67		7,992.	
		13,902.	
230 Utility Systems		16,155.32	
TOTAL		\$ 16,155.32	

DISTRIBUTION		THE FIXED ASSET DESCRIBED ABOVE HAS BEEN COMPLETED IN ACCORDANCE WITH APPROVED DRAWINGS, SPECIFICATIONS, AND AUTHORIZED CHANGES	
No.	To	Submitted	Title
5	SERO	By: <i>Russell A. Gibbs</i>	Superintendent
1	MOCR	Approved	Date: 1/22/67
		By:	Title:
		COSTS VERIFIED	Date:
		BY <i>T. J. Baer</i>	Regional Accountant
			Date: MAR 28 1968

Form 10-174A
(June 1962)UNITED STATES DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

COMPOSITION OF COST FOR COMPLETION REPORT

Work Order Number

211703

Fund Symbol

14X1035

Park

MOORES CREEK NMP

Region

SE

Year Programmed

1967

Location in Park

RESIDENCE AREA

Work Order Title

IMPROVE WATER SYSTEM

COMPOSITION OF COST

COSTS CHARGED TO FUNDS ALLOTTED TO FIELD FINANCE OFFICE

(1) Personal Services.....	\$	
(2) Travel.....		
(3) Contract Work	13,927.00	
(4) Supplies and Materials.....		
(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	\$ 13,927.0

OTHER COSTS:

(12) PS&S, AP, and/or Facilitating Services @ 16 %.....	\$ 2,228.32	
(13) Inventory and Other Non-Fund Costs		2,228.3
(14) GROSS WORK ORDER COSTS	xxxxxxxxxx	\$ 16,155.3

LESS:

(15) Residual Value of Construction Equipment on Line 8	\$	
(16) Other Credits		
(17) NET COST OF FIXED ASSETS	xxxxxxxxxx	\$ 16,155.3

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

10-174
6-25-59

UNITED STATES DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
COMPLETION REPORT OF CONSTRUCTION PROJECT

REGION One	AREA Moore's Creek NMP	COUNTY Pender	STATE North Carolina
PROJECT OR JOB TITLE Water Supply Well		MASTER PLAN NO. 2151C-EODC 3/3/57	PCP NO. U-1-2 (Por)
LOCATION IN AREA Adjacent to Visitor Center		BUILDING NO.	
WORKING DRAWING NO. AND TITLE			

APPROPRIATION TITLE AND SYMBOL 14 X 1035, Construction	WORK ORDER NO. 332.1
CONTRACT NO.	DATE WORK STARTED
NAME OF CONTRACTOR R.D. Cole Mfg. Co. (14-10-108-495) Wilmington Well & Pump Co. (Unnumbered)	ADDRESS Newman, Ga. 2808 Market St., Wilmington, N. C.

COST ANALYSIS

CONSTRUCTION ITEMS	QTY	UNIT COST IN PLACE	TOTAL COST IN PLACE
(1) <u>Unnumbered Contract</u>			
Drilling Deep Well - 4" Dia. 184' Depth			
167' - 4" Galvanized Casing			830.40
Testing for Performance			
15' BRASS screen and a 5' blank - Installed			495.00
(2) <u>Contract No. 14-10-108-495</u>			
Installation of Water Tank			1,363.00
Concrete Foundation			7,627.00
15,000 Gallon Tank			
Facilitating Services			102.60
TOTAL			10,418.00

FINANCE OFFICE CLEARANCE

J.R. Ironmonger
J.R. Ironmonger, Supervisory Accountant

SUMMARY OF EXPENDITURES

PERSONAL SERVICES	EQUIPMENT	MATERIALS AND SUPPLIES
OTHER		
Contract Work - 10,315.40; Facilitating Services - 97.60; Other \$5		

CHANGE ORDERS					
ORIGINAL CONTRACT AMOUNT	FIRST	SECOND	THIRD		
FINAL CONTRACT AMOUNT	FOURTH	FIFTH	SIXTH		

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

(10) <i>George F. Emery</i>	DATE	6/25/59
Ass't. Superintendent F&O	DATE	6/29/59
<i>James M. Ford</i>		
Supt., Moore's Creek NMP		

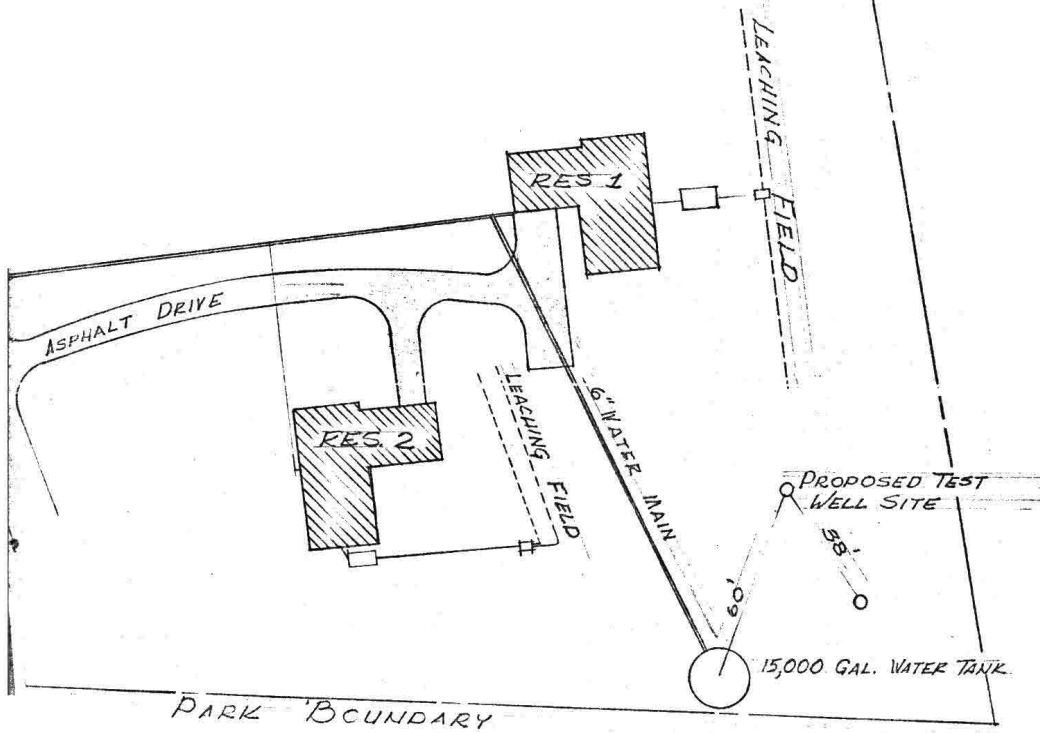
(NATIVE STATEMENT, PHOTOGRAPHS, AND "AS BUILT" DRAWINGS TO THIS FORM)

Copies sent to Reg. Supt. EODC 7/15/59

NARRATIVE STATEMENT

Park Engineer Farrar and Administrative Officer Watson journeyed to Moores Creek NMP on October 31, 1957, to assist with opening of bids for well construction and other duties. While there Park Engineer Farrar staked the location of the well. The Wilmington Well & Pump Company was the low bidder and the specifications were gone over by the two above representatives of Colonial NHP while they were there. The well was completed in January 1958.

R. D. Cole Manufacturing Company of Newman, Ga., was the low bidder on the elevated tank. Included in the bid was construction of footings for the tank, as well as the erection and painting of the tank. This work was completed January 1959.



PROPOSED TEST
WELL DRILLING SITE

MOORES CREEK NATIONAL
MILITARY PARK

PENDER COUNTY

NORTH CAROLINA

