



WATER-RIGHT DOCKET

Blue Ridge Parkway

Docket No: 7

HUMPBACK ROCKS PIONEER EXHIBIT.

Supporting Hydro Data

03-09-1965: letter re: investigation was undertaken; march 09, 1965



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Post Office Box 2857
Raleigh, North Carolina

IN REPLY REFER TO:

March 9, 1965

Superintendent
Blue Ridge Parkway
Post Office Box 1710
Roanoke, Virginia

Dear Sir:

At the request of the National Park Service, an investigation was undertaken in the vicinity of the Humpback Rocks Information Center on the Blue Ridge Parkway, Augusta County, Virginia, March 4 and 5 by the U. S. Geological Survey, Branch of Ground Water, North Carolina District. The purpose of the investigation was to locate a test-well site, with an alternate site, to provide at least 10 gpm for the recreational facilities at the information center.

The area of the Humpback Rocks Information Center is within a north-trending linear draw or swale, inferred to be the topographic expression of an underlying fracture zone in the meta-basalt permeable to ground-water movement.

A test-well site was selected near the pump house, about 1,130 feet S 13° E of the information center. Estimated maximum drilling depth is 100 feet. An alternate test site was selected near the southeast corner of the parking lot, 200 feet S 35° E of the information center. Estimated maximum drilling depth at the alternate site is 100 feet.

The test-well site and the alternate site were marked with surveyor's stakes in the presence of Mr. Austin, Blue Ridge Parkway foreman. Their locations are shown on the accompanying map.

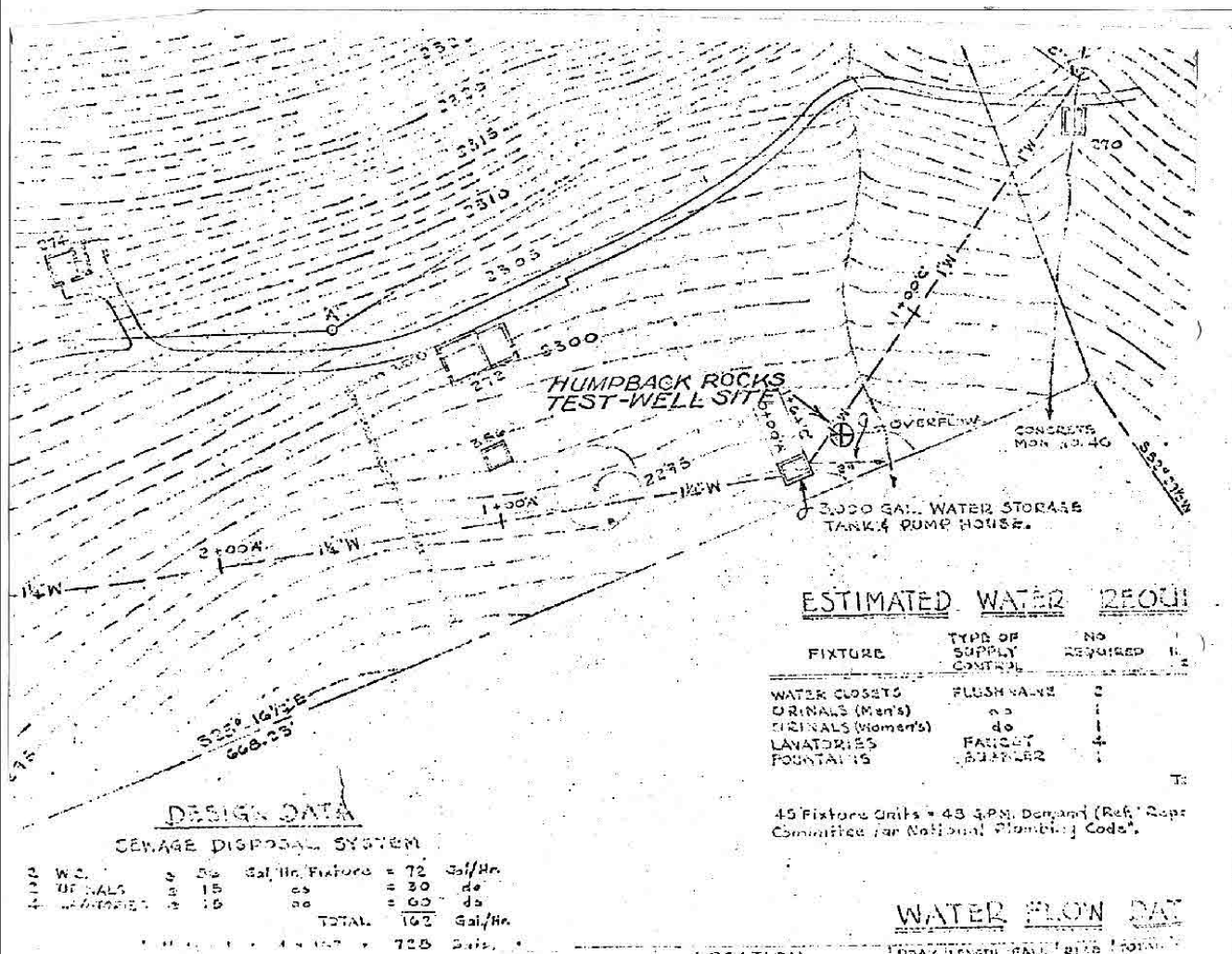
Sincerely,

Carlton T. Sumsion
Geologist

For Granville G. Wyrick
District Geologist

Attachment

cc: Mr. Fred Vick, III
Richmond, Virginia



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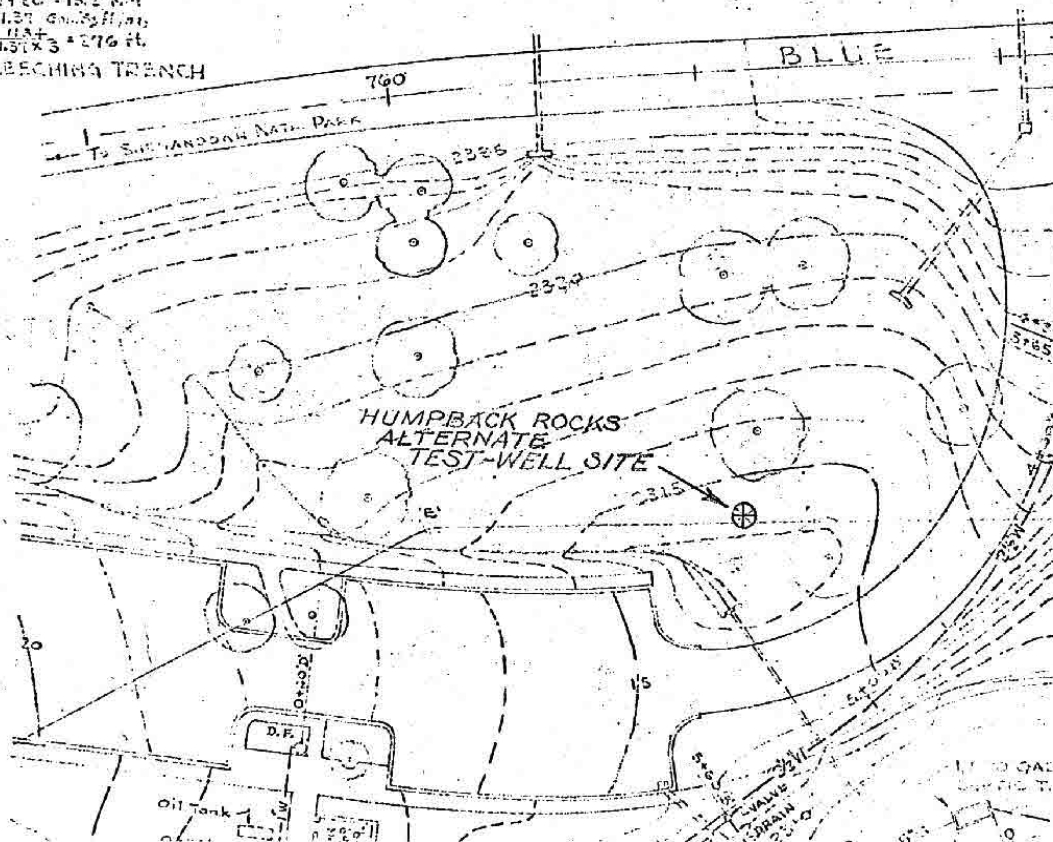
Average Seepage Time 79.6 = 13.2 min
 Average Seepage Rate 137 GPM/ft.
 Leaching Trench Length 151' x 3 = 276 ft.

USE 276 FEET OF LEACHING TRENCH

AA - A	245.70	N 34° 18' W
A - B	152.80	N 04° 16' W
B - C	157.35	N 04° 21' W
C - D	229.50	N 13° 49' E
D - E	233.53	N 01° 40' W
EA - 49	155.11	N 66° 03' E

AA	2319.33
A	2305.24
B	2312.12
C	2304.16
D	2314.03
E	2316.61

184' E



3639

Post Office Box 2857
Raleigh, North Carolina

May 10, 1965

SOUTHEAST REGION	
MAY 11 1965	
Regional Director	
Asst. Reg. Dir. (G)	
Asst. Dir. (A)	
Asst. Reg. Dir. (C)	
Asst. to Reg. Dir. (P)	
Asst. to Reg. Dir. (H)	
Resource Studies Adv.	

Handwritten signature

Mr. Sam P. Weems, Superintendent
National Park Service
Blue Ridge Parkway
Post Office Box 1710
Roanoke, Virginia 24008

Dear Mr. Weems:

On May 3, 1965, a well was drilled to a depth of 120 feet at the Humpback Rocks Information Center, Blue Ridge Parkway, Augusta County, Virginia.

The well was cased with 8-inch steel casing to a depth of 55 feet; the remaining 65 feet of the well was open in greenstone or metabasalt and related metavolcanic rock.

On May 5, 1965, a pumping test was performed on the well. Static water level in the well was at 10 feet. A 5-horse-power pump was set at 112 feet in the well, producing a constant 53.5 gallons per minute for over four hours. Drawdown of the water level after the first hour of pumping was about 51 feet. At the third hour drawdown was about 54 feet, and for the fourth hour of the test drawdown remained constant at about 55 feet. As projected on the accompanying chart, drawdown will not exceed 60 feet after 24 hours of pumping at 53.5 gallons per minute.

Quality of the water appeared to be excellent. A sample was taken for analysis.

As demonstrated by the pumping test, this well will be satisfactory for its intended use.

Mr. Sam P. Weems

- 2 -

May 10, 1965

Costs of the Humpback Rocks investigation was \$400.00 and additional charges of \$800.00 for the Rocky Knob investigations all will be covered by \$1,200.00 for this fiscal year.

Please let us know when the most convenient time will be to perform the investigation at Rocky Knob.

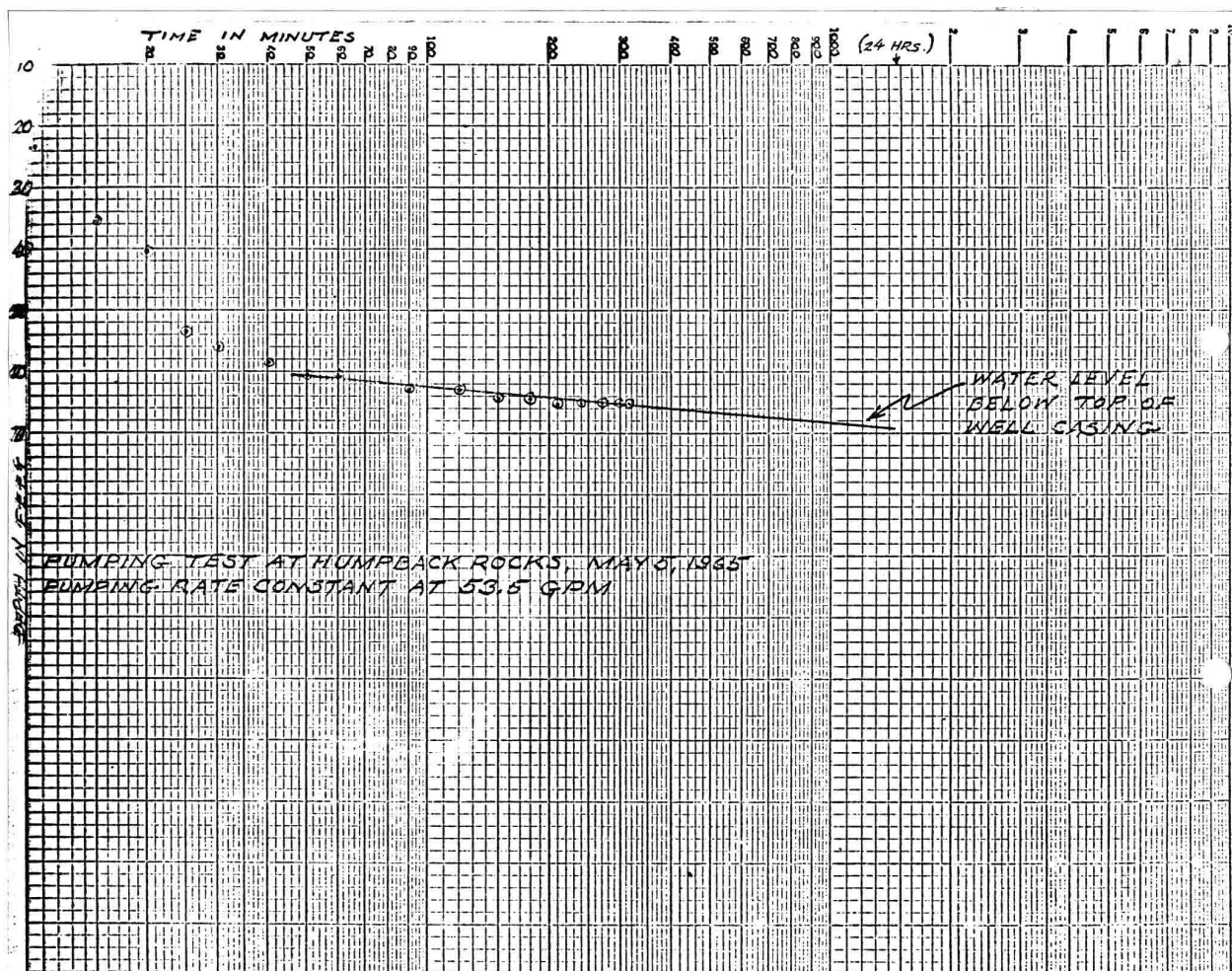
Sincerely yours,

Carlton T. Sumsion
Geologist

For Granville G. Wyrick
District Geologist

Attachment

cc: Mr. Alfred Vick, III
Richmond, Virginia



Other Supporting Information

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

D2621

COMPLETION REPORT OF CONSTRUCTION PROJECT

REGION One	AREA Blue Ridge Parkway	COUNTY Augusta	STATE Virginia
PROJECT OR JOB TITLE Water System - Humpback Rocks		PCP NO. U-128	
LOCATION IN AREA Humpback Rocks Pioneer Exhibit		MASTER PLAN NO. PKY-BR-GEN-2298A	BUILDING NO. ---
WORKING DRAWING NO. AND TITLE 1B - 2065 Utilities - Information Bldg. No. 269		WORK ORDER NO. 314.10	
APPROPRIATION TITLE AND SYMBOL 14X1035 Construction C.A.		DATE WORK COMPLETED December 1956	
CONTRACT NO. 14X1037 Construction Liq. C.A.		DATE WORK STARTED December 1954	
NAME OF CONTRACTOR		ADDRESS	

COST ANALYSIS

CONSTRUCTION ITEMS	QTY.	UNIT COST IN PLACE	TOTAL COST IN PLACE
Water System, Humpback Rocks Information Station, including water collection, storage and distribution systems.	1	7,779.98	7,779.98
TOTAL			7,779.98

SUMMARY OF EXPENDITURES

PERSONAL SERVICES 3,992.00 (35)	EQUIPMENT Operation 405.74 (35)	MATERIALS AND SUPPLIES 2,192.37 (35)
OTHER 753.39 (37)	" 68.44 (37)	148.52 (37)
219.52 (35)	Certified: <i>Henry Svec</i> Henry Svec, Supervisory Accountant	

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

SUBMITTED BY (Name and title) <i>Earl W. Batten</i> Earl W. Batten, Assistant Parkway Engineer	DATE March 13, 1959
APPROVED BY (Name and title) <i>Sam P. Wadsworth</i> Sam P. Wadsworth, Superintendent	DATE March 13, 1959

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

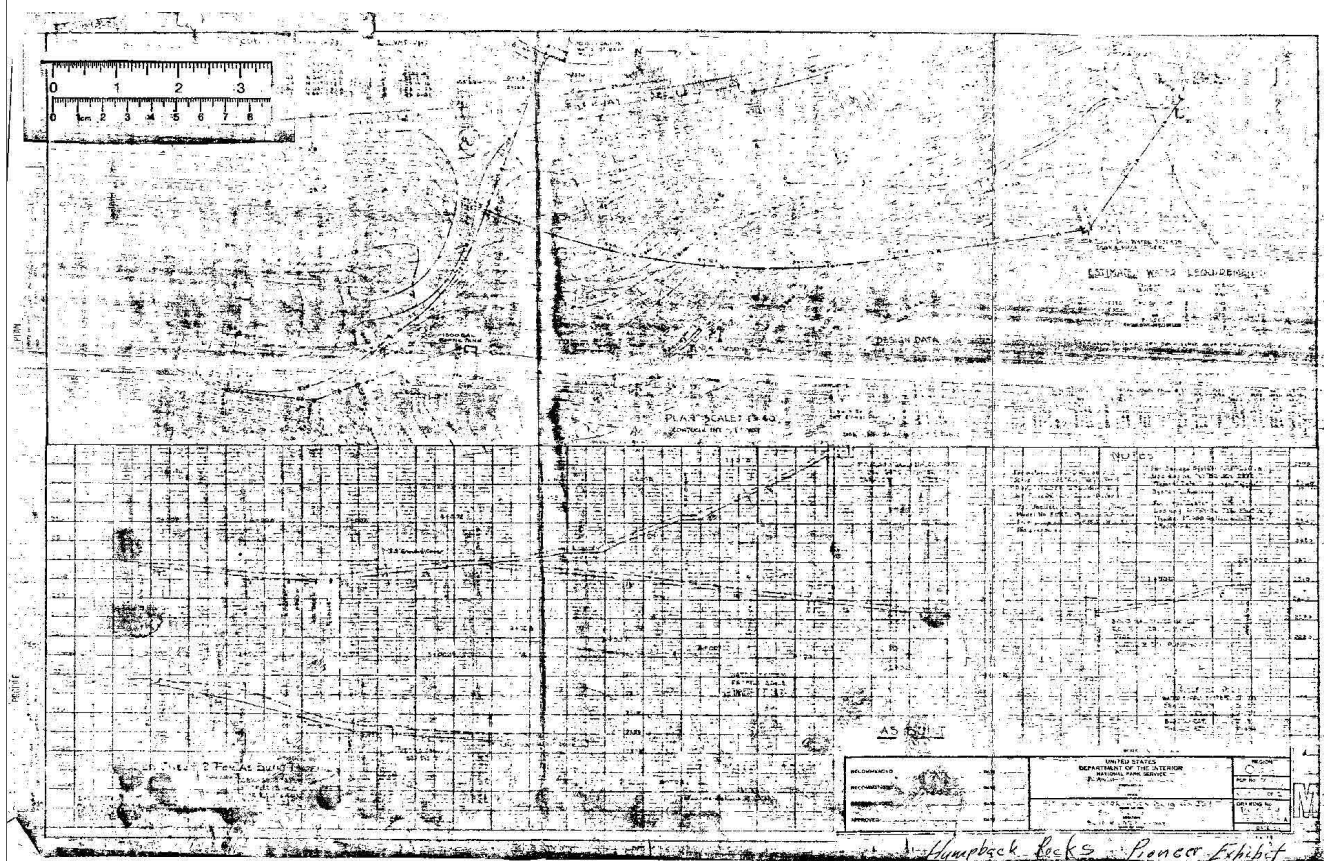
GPO 914176

Narrative Report:

This complete usable water system for the Humpback Rocks Information (Visitor) Center was constructed by National Park Service day labor between December, 1954 and December, 1956. A spring was developed, with concrete spring box, and constructed 3,000 gallon underground concrete spring reservoir with gasoline pump in pump house above, installed 164 feet of 1 inch collection line, 635 feet of 1½ inch pump line, 1,090 feet of 2½ inch and 40 ft. of 1 inch distribution line, with necessary valves, drains and fittings. Collection line was galvanized iron; all other lines were polyethylene plastic.

"As Built" Drawing No. PKY-BR-1B-2065A attached.

Maps and Miscellaneous Information



Docket Information

Number of Documents in Docket 9

Documents Dated from 3/13/1959 to 5/10/1965

Docket Compiled: 2/1/2011