



WATER-RIGHT DOCKET

Blue Ridge Parkway

Docket No: 6

HUMPBACK ROCKS PICNIC AREA.

Supporting Hydro Data

10-01-1963: humpback rocks; october 01, 1963

Humpback Rocks

Three test wells were drilled at Humpback Rocks. The first test well was drilled to 86 feet in greenstone, and completed October 1, 1963. Ground water was obtained from a permeable zone between 60 feet and 70 feet. Air-pressure lift of ground water was 60-70 gpm. The turbid character of the water at this site precludes its use without filtration and treatment. The well was abandoned without further tests.

The second test well was drilled to 85 feet in yellow clay without obtaining ground water.

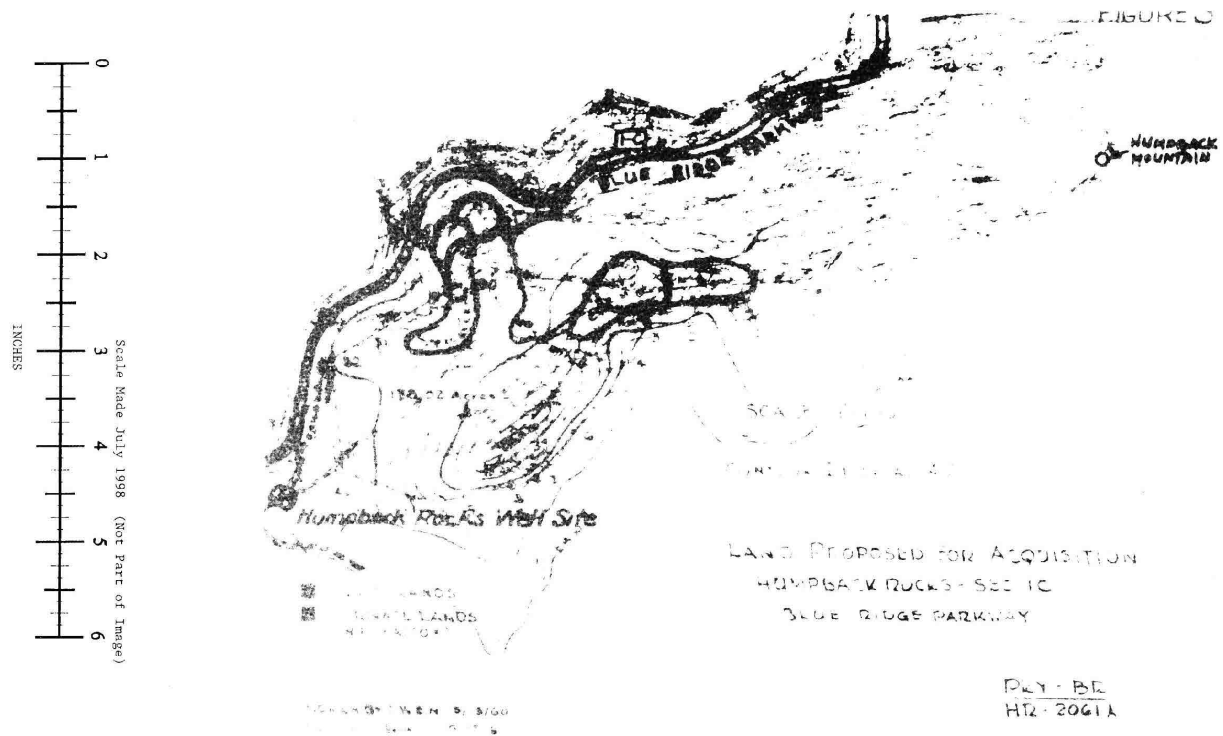
The third test well was drilled to 85 feet in greenstone without obtaining sufficient ground water to warrant further tests.

4th well drilled in 1965

Humpback Rocks

Topographically, the Humpback Rocks area is rugged and steep, consisting of abrupt slopes which rise southeast of the Parkway and drop sharply away on the northwest. Steep draws head near the crest of the Blue Ridge in this area, and their consistent linear character appears to be caused by fracture systems in underlying bedrock. Metabasalt or greenstone and related metavolcanic rock types underlie the Humpback Rocks area. Seeps and springs are present in some places, but probably result from perched ground-water conditions rather than movement through well-defined fracture systems.

A test-well site was located at Laurel Springs Gap, about 3500 feet southeast of the Humpback Rocks recreation area (figure 3). The site is about 400 feet from the Parkway and is accessible by an unused road. Springs are present on both sides of the gap near its summit and probably indicate a permeable fracture zone striking N 30° W, directly through Laurel Springs Gap. Secondary fractures, striking N 70° E, may contribute ground water to the more permeable zone in the gap. The required amount of water at this site is 30 gpm, and estimated drilling depth is 1200 feet in greenstone. No alternate site was selected.



Other Supporting Information

BLUE RIDGE PARKWAY

WATER SYSTEM DATA

- AREA Blue Ridge Parkway DATE COLLECTED _____ COLLECTED BY _____)
1. Name of System: Humpback Rocks Picnic Ground
 2. Location: State Virginia County Augusta General Area M.P. 8.5
Reference to permanent landmark _____
 3. Source of Supply: Spring Capacity _____
(Well, spring, stream, impoundment, etc.)
 4. Type of System: Gravity
(Pumped, gravity, etc.)
 5. Treatment: None
(Filtration, Chlorination, Airation, etc.)
 6. Distribution Mains: Size 1 1/2" Length 2,350'; Size _____ Length _____
Size 3" Length 1,330'; Size _____ Length _____
Size 1" Length 1,015'; Size _____ Length _____
 7. Pump Unit: Make N/A; Type _____; Model No. _____
Serial No. _____; Outlet _____ in.; Inlet _____ in.
(Size) (Size)
 8. Power Source: N/A Motor: Make _____; HP _____;
(Elec., gas, generator)
Serial No. _____; Voltage _____; Amps _____;
RPM _____; Type _____; Phase _____;
Cycles _____; Others _____; Stages _____
 9. Control: Automatic N/A; Manual _____;
(Float, Electrobe, Pressure, Time)
Other _____
(Explain)

#6

Rec'd by Chief, OLW - WSC moved to Chief, BWR 7-17-68

10. Pump Design: Capacity N/A (Actual) gpm (Design) gpm
Head (Actual) ft. (Design) ft.
11. Pump Housing: Type Const. N/A (Walls) (Roof) ; Size
12. Storage: Underground (Pneumatic, elevated, underground, etc.) Type Const. Concrete (concrete, wood, steel)
Size ; Capacity 15,000 gal. Inlet 3,184.2 ft. 1 1/2 in.
(Elev.) (Size)
Outlet 3,179.0 ft. 3 in.; Pressure Setting
(Elev.) (Size) (if pneumatic)
13. Distribution: Water Closets 8; Lavatory 8; Urinal 4;
Drinking Fountain 7; Hose Bibs 4; Residences ;
Other ; ;
14. Metered or nonmetered: Metered; No. 1; Size
No. ; Size
No. ; Size
15. Fire Protection: Fire Hydrants ; Yard Hydrants
16. Water Analysis:
17. Condition of System: Good
(Repairs needed itemize)

Form 10-174
(Rev. 8-55)UNITED STATES DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
COMPLETION REPORT OF CONSTRUCTION PROJECT

D2621

REGION One	AREA Blue Ridge Parkway	COUNTY Augusta	STATE Virginia
PROJECT OR JOB TITLE Picnic Area Water System			PCP NO. U-34-2
LOCATION IN AREA Humpback Rocks Recreational Area		MASTER PLAN NO. PKY-BR-HR-2001-F	BUILDING NO. --
WORKING DRAWING NO. AND TITLE HR - 2059 Water System - Picnic Area Humpback Rocks			
APPROPRIATION TITLE AND SYMBOL 14X1035 - Construction, NPS O.A. 2,533.00 C. A. 3,999.83			WORK ORDER NO. 314.20
CONTRACT NO. 14X1037 - Construction, NPS 2,342.17			DATE WORK COMPLETED June 1956
NAME OF CONTRACTOR		DATE WORK STARTED August 1954	ADDRESS

COST ANALYSIS

CONSTRUCTION ITEMS	QTY	UNIT COST IN PLACE	TOTAL COST IN PLACE
Water system, including two spring developments, storage tank, collection and distribution lines.	1	15,882.00	15,882.00
TOTAL			15,882.00

SUMMARY OF EXPENDITURES

PERSONAL SERVICES 10,047.89	EQUIPMENT Operation 665.46	MATERIALS AND SUPPLIES 5,109.38
OTHER 59.27	Certified: Henry Svec, Supervisory Accountant	
CHANGE ORDERS		
ORIGINAL CONTRACT AMOUNT	FIRST	SECOND
FINAL CONTRACT AMOUNT	FOURTH	FIFTH
THIRD		
SIXTH		
THIS PROJECT OR JOB HAS BEEN COMPLETED IN ACCORDANCE WITH APPROVED DRAWINGS, SPECIFICATIONS, AUTHORIZED CHANGES		
SUBMITTED BY (Name and title) Earl W. Batten, Assistant Parkway Engineer	DATE March 13, 1959	
APPROVED BY (Name and title) Sam P. Weems, Superintendent	DATE March 13, 1959	

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

GPO 914176

Narrative Report:

Work on this gravity water system was started August 1954 and completed June 1956 by National Park Service day labor. System included two spring developments with concrete spring boxes, 15,000 gallon two-compartment underground reinforced concrete storage tank; 2,350 feet of 1½ inch plastic collection line; 1,330 feet of 3 inch plastic distribution line; 1,015 feet of 1 inch plastic distribution line; 6 drinking fountains; all necessary fittings and valves. This is a usable facility providing a potable water supply for the picnic area development in the Humpback Rocks Recreational Area.

"As Built" Drawing No. PKY-HR-HR-2059A attached.

Docket Information

Number of Documents in Docket 7
Documents Dated from 3/13/1959 to 10/1/1963
Docket Compiled: 2/1/2011