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HISTORICAL RESEARCH REPORT

WHEELWRIGHT SHOP

BUILDING #35

HOPEWELL VILLAGE HATIONAL HISTORIC SITE

December 1964

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HISTORICAL RESEARCH REPORT

- WHEELWRIGHT SHOP

BUILDING #35

ADMINISTRATIVE DATA

The Wheelwright Shop, Building #35, is shown on the 1887 Stokes photograph of Hopewell Furnace. The Architect and Archeologist both indicate that the Wheelwright Shop rested on a portion of the foundation of the earlier Casting House. The Historian quotes an interview which stated that the wheelpit was located in the north end of the building which would make an overlap unlikely. Exhaustive trenching over the general area of the shop location yielded no foundations other than remnants of a short wall near the southeast corner of the Casting House. Perhaps the building had no permanent foundation.

From the material accumulated thus far on this building we can deduce the following:

- A building, evidently the Wheelwright Shop, existed in 1887 when the Stokes photograph was made.
- We do not know the precise location or dimensions of that building.
- 3. No permanent foundations have been discovered in the general vicinity of where the building appears in the 1887 photograph

- other than the short foundation wall extending south from the southeast corner of the Casting House.
- 4. The base of the Wheelwright Shop rested on slag at a grade level considerably higher (1.3 ft.) than the Casting House indicating its construction or move to that position occurred at a period later in furnace history.

From the various reports submitted up to this point we can see that there are several unanswered questions or research gaps in the history of this building. This would seem strange since two historic photographs of the structure are in existence plus several recorded interviews. The latter may be largely discounted because of the wide disparity in the interviewees' description of the building.

Archeologist Abel conducted a thorough search for evidences of the building outline and exact position. Perhaps further archeological investigation in this area will yield more concrete data. However, it is the recommendation of this office that until more definite information comes to light, we attempt to go no further with a reconstruction project.

Part III of the work description in P.C.P. B-98-4 includes the reconstruction of the Wheelwright Shop. It appears that construction funds will not be available for this work in the near future since all of the funds presently allotted will be expended on the Cast House restoration work.

HISTORIC STRUCTURES REPORT

PART II - WHEELMRIGHT SHOP

BUILDING #35

HISTORICAL DATA

Hopewell Village National Historic Site

APPROVAL SHEET

RECOMMENDED

/e/ Benjamin J. Zerbey Superintendent	Date	12/14/64
	Date	
Chief, ECDC		
<u> </u>	PPROVED	
Regional Director	Date	

PART II (WHEELWRIGHT SHOP)

Historical Data Section

DESCRIPTION-UNKNOWN SIZE

Building 35, surviving until around 18951, was a framed and shingled structure covered first by board and batten and later by lath and stucco: its interior was also plastered. While Hopewell's last manager, Harker Long, recalled it as a 15 by 20 foot structure, another traditional size reported was 25 x 30. Archeologist Abel (size could not be determined archeologically) estimated from the two surviving photographs that it may have been 20 by 30 or 24 x 36. Mr. Abel did uncover two fo ndations in the lower working area, but neither the structure directly in front of the cast ho se (17 x 32) nor the stable-crib foundation southeast of the barn (20 x 26) fit the traditional or Abel-suggested measurements. A mathematical calculation from the Bull-1896 photo may provide an accurate size, since the photo shows the existing blacksmith shop. Likewise, archeology beyond the shed-crib foundation, an area untested by Mr. Abel, may reveal stucco, foundations and a definite size. AGE-DATE OF CONSTRUCTION UNKNOWN

Date of construction is also unknown. Since tradition tells that the moulders slept in the attic of the structure, 7 it

existed before 1845, when moulding ended. Record entries, an 1829 "plastering the moulders' sleeping room" and an 1835 "plastering the warehouse", may refer to, and partially date, building 35.

FUNCTION PRE-1840 WHEELWRIGHTING DOUBTFUL

The pre-1840 function of the building is also unknown. Harker Long, at Hopewell from 1867, was quite emphatic about the necessity for a wheelwright and a wheelwright shop at Hopewell, and Archeologist Abel did uncover a wheelpit as recorded by Mr. Long. However, that there was ever a pre-1840 "resident" wheelwright at Hopewell is very doubtful; every located wheelwrighting account found to date is entered in the Records as "per account" - as a bill rendered NOT as pay to a resident employee. Likewise, among the regular quarterly Journal accounts NO entries for payment to a pre-1840 resident wheelwright has been found to date. Teamsters, laborers, farm hands, a blacksmith, a hostler and a gardner are regular "resident" entries. Actually, Records do pay a RESIDENT wheelwright in Long's time, somewhat verifying his declaration that "it paid to have a wheelwright on hand all the time."

EXISTING PHOTOS MAY PROVIDE SIZE

Two photos provide neither age nor definite location clues, 11 but DO show that sufficient stucco-plaster survived as late as

c. 1895 so that a lens might have been found in the ground in the area south of (the southeast corner) the cast house.

Archeologist Abel, after a study of the photos - an architectural study has not been made - suggested that building 35 was constructed of board and batten over framing with later lath and stucco rather than of balloon framing, which dates after 1833 and originated in Chicago. As mentioned in the first paragraph, definite size might be calculated from the 1895-Bull photo.

ARCHEOLOGY ACCOMPLISHED

Mason in 1959 located considerable stucco from building 35 at the southeast corner of the cast house (building 33), and Archeologist Abel in uncovering the entire site located a STONE wheel-assembly pit, mentioned by Harker Leng. However, a lack of stucco-plaster prevented a definite size figure for the structure. 14

WHEELINRIGHT SHOP DID NOT TRESPASS ON CAST HOUSE

The archeological discovery of the stone wheel pit plus long's statement that this pit was in the NORTH end of the shop 15 clearly demonstrates that building 35 did NOT trespass on the south moulding room and MIGHT have been at its last location previous to 1845. Tradition that the moulders slept in the structure 16 also is evidence that the shop existed pre-1845 when soulding ended.

OTHER POSSIBLE LOCATIONS AND NEED FOR ARCHBOLOGY

Tradition (and archeological orientation) 17 also provided two possible earlier locations for a stove-plate cleaning operation 18 and pattern storage potential historic uses of building 35. However, archeology between Walls G (north of cast house) and H provided no clues whatsoever. 19 There was no archeology at the other traditional site, the area beyond the stable-crib. Stucco and foundations denoting location and size might be archeologically found at this untested area. Should the structure have been moved to its photo location, the 1835 "plastering of the warehouse" might date the move. 20

NO PRE-1840 RESIDENT WHEELWRIGHT

All references to wheelwrighting (found to date) in the pre-1840 period, including those CITED by Russell Apple in his <u>Documentation for the Historical Base New 1820-1830</u>, are bills for wheel construction and repairs at shops AWAY from Hopewell. Practically all discovered to date are <u>Journal</u> entries, "As per account".

Conversely, in the regular <u>Journal</u> entries for non-furnace resident employees, NO pay entry for a pre-1840 resident wheelwright has been discovered.

Thomas Roberts, cited by Apple as a resident wheelwright, performed his craft at his shop AWAY from here from 1847-1852²² (as did George Maxton in the period 1868-1875).

RESIDENT WHEELWRIGHTING FOR 82 DAYS

While tradition designated Joseph Palsgrove as Hopewell's late wheelwright "without a helper". 24 a check of this blacksmith's Journal pages from 1876 to 1883 showed NO credits for wheelwrighting. 25 Similarly, another but earlier wheelwright and his helper, Henry Houck and Wortz, "the last wheelwrights at Hopewell" 26 were not verified by Records as practicing this craft. Definitely PAID by the day and BOARDING at H pewell during a three-month period are William Barkley's records as proof of working and residence as wheelwright after 1876. Nine Journal entries specifically credit this craftsman with \$74 for 56s days of wheelwrighting and \$51.50 for wheelwright work. 27 However, by Ledger entries his total earnings from May 1, 1876 to June 4, 1877 total \$123.92. At \$1.50 a day, this amount would pay him for 82 days in thirteen months. After the 1880 resumption of the furnace, his earnings totaled \$79.75 for the mext two and a half years, 21 days in 1880 and 21 in 1883. To repeat, Barkley DID wheelwright and board at Hopewell for 56 days in 1876 (the only year his boarding record was found) and 92 in 1877. Under these circumstances, Barkley can hardly be considered as a steady employee, or "at hand all the time", as related by Harker Long. 30 Without doubt, this 1880-1883 furnace manager, who came to Hopewell as a young man in 1867, was speaking about wm. Barkley.

These late <u>Record</u> discoveries DO NOT disprove that Hopewell might have had a resident wheelwright in the 1856-1868 period, a time for which NO pertinent Hopewell records have survived.

PRE-1845 USE OF BUILDING 35

That building 35 had moulding-related uses in the stove-making period is possible. Among the suggested uses (other than the traditional attic sleeping room) is as the traditional "across the road" auxiliary moulding area and stove-plate cleaning and packing into crates for shipment. While the occupations can be documented, no entry found to date ties these tasks to building 35.

CONCLUSIONS

Wheelwrighting by a craftsman in residence DID occur at Hopewell, but NOT in the pre-1840 period; a RESIDENT wheelwright DID operate at Hopewell 1876-1883. More important, the structure did NOT TRESPASS on the cast house, showing that it could have existed in the historic period at its last site. Definite size is still unknown, but either archeology or calculation from the Bull-1895 photo may produce definite details. Most likely, this suxiliary building not only provided sleeping space for the moulders but also provided space for plate cleaning, packing and pattern storage.

FOOTNOTES

- 1. Hopewell Photo. Bull 101-03 and H2215 Interview Harker Long. p. 31. Hereafter cited as Long.
- 2. Hopewell Photos. Bull 101-03 and Stokes 1887 125-01. Hereafter cited as Photos. Long. p. 31.
- 3. Long, p. 31 and H2215 Interview Mr. and Mrs. Charles
 Sheridan Care. p. 4. Hereafter cited as Care.
- 4. Leland J. Abel, Archeological Excavations at Hopewell
 Furnace, p. 104 based on board and batten, and 106 based
 on lath length, both from Hopewell Photos. Stokes-1887,
 125 01 and Bull 1895, 101-03. Hereafter cited as Abel.
- 5. Abel. Fig. 5, following 78 and Earl J. Heydinger, Orientation Report for Archeology in Lower Working Level, p. 5, 6. See Appendix.
- 6. Drawing NHS-HV 3040. Sheet 2 of 8 and Measurements by William Bitler and E. Heydinger Sept. 1964.
- 7. Care. p. 4.
- 8. <u>Hopewell Records.</u> SM 14, p. 45a, Jan. 16, 1829 and SM 21, Mar. 22, 1836.
- 9. Long. p. 31 and Abel, p. 110.
- 10. Long, p. 31.
- 11. Photos.
- 12. Abel. p. 104, 106. A factor in this decision may have been the records of extensive scantling purchased between 1800 and 1833.
- 13. Ronald J. Mason, Archeological Exploration of the Site of the Casting House Hopewell Furnace HVNHS 1958, p. 11, "a heavy layer of plaster fragments."
- 14. Abel. p. 111.

- 15. Long, p. 31. Mr. Abel ignored this statement and DREW the wheelpit in the SOUTH end of the structure in his Plan of Hopewell Furnace and Casting House about 1840 No number in Abel. Also see Abel. p. 110, 113.
- 16. Care. p. 4.
- 17. See Appendix 1 for extract.
- 18. H2215 Interview Thomas Hoffman, p. 3, H2215 Interview Mr. and Prs. M.L. Care, p. 2, Care, p. 1, and H2215 Interview Charles Sheridan (Sherd) Painter, p. 3.
- 19. Abel. p. 45, 46.
- 20. Honewell Record, SM 21, Mar. 22, 1836.
- 21. Russell Apple, Documentation for the Base Map, 1820-1830. p. II-107, 108.
- 22. <u>Hopewell Record</u>, SM 32, p. 45b, May 1, 1848, 65b, Apr. 20, 1849, 86a, Apr. 3, 1850, 103b, Mar. 29, 1851 and 126a, Mar. 31, 1852.
- 23. <u>Hopewell Record.</u> SM 34, p. 191a, Apr. 1, 1869, p. 197b, 1869, 214a, Apr. 1872 and p. 238b, Dec. 1875.
- 24. H2215 Interview Mr. and Mrs. S. March and H2215 Interview Thomas Hoffman, p. 3.
- 25. Hopewell Record, 62M, p. 21, 33, 37, 40, 49, 53, 62, 63, 133, 137, 142, 145, 146, 153, 157, 162, 167, 169, 181, 182, 187, 189, 191, 194-198, 203. From July 31, 1876 to July 20, 1883.
- 26. H2215 Interview Reginald Smith, p. 2.
- 27. Hopewell Record, SM 76M, p. 11, May 10, 1876, p. 14, June 10, 1876, p. 17, July 8, 1876, p. 23, Aug. 31, 1876 p. 107, Dec 1, 1880 for 2 items, p. 111, Dec. 10, 1880, p. 169, June 30, 1882 and p. 195, Mar. 15, 1883.
- 28. Hopewell Record. SM 62M, see Appendix.
- 29. Hopewell Record. SM 34, p. 242, June 1876.
- 30. Long. p. 3.
- 31. See Footnote 18.



P125-01



P101-03

SUNEY 1877 Hanny 2619 South 2016 2682 " Use of Atoses at Swamp 4.20

had saided 23 years before his arrival in 1867 and 5 years before Dr. Clingen became manager in 1869. Long's statement, the sheeloright sheet "was absolutely measurery for operation", 15 has to be considered in his post-1867 period. However, neither in early or late pariods are sheelurights steadily employed. On the contrary, there are definite records of regular engon-making and repair by mon-Hoperall craftsmen, 14

Possible Archeological Finds

That this building was planter-stude is shown by the attended photos and by the heavy depocht of planter-studes found in the 1999 Cent House wall archeology. Somplete graheology should determine its discussions. This work way also show that the final location of the structure may have almost transpared on the area of the south soulding room. Should this condition develop, the possibility them exists that the two structures were so may that a decrease from one into the other may have existed for the efficient moving of castings from the sculding room into the classing shed. It may also show, if the transpass on the moulding room is too great, that the structure (building 35) was noted to the final "electrolists shop" site after the 1844 and of soulding and, or perhaps, as the immanages the road expanded south and soulding and, further, should archeology disclose that the size of fibs cleaning shed traditionally

located southwest of the barn is comparedictly near that of ballding 35, the possibility exists that the closating shed of an earlier period may have been noved to the nove handy final site. Hear size for both structures also suggests that the "plantering of the narchbuse" of 1836 night have been for the alcouing shed after it had been noved, with this planter-stuces finish replacing an earlier planter or weeks siding.

The presence of lerest scalding and may verify channing operations of both sites. Discovery of a pit within northern part of building 35 in which Harter Long said shools were placed for space installations usual verify that statement. 16

MENDER ABE

Sibor Pensibih Cleaning Shed Sibon

The area scathwest of the burn, lest used as a pasking let for the Village office before the Visitor Couter opened, has contained an unknown number of buildings, which may have entered from 1770 to 1935. Next important of all is a possible cheering shot of the pro-1844 (storemaking) period. All actives about this location are fore family descendents, but they disagree about the use of the storesters. One, been in 1866, regulied hearing his scales, dather tell about a cleaning shed him (and between Wall H and the South Moulding Rosm). No trace of the spiceted within his nemery, 27 Acethor

In Doursley Contra: Con 8 8 6 Cas 11 30,00 May 1 By d'urnace 3/132 July 10 1 Mitte Cash 22 26,10 July 8 4 Mitte mich! bash 45 10 00 Augus 31 1 Wille 20,000 Juni 1 1 Oute 53 . 9,00 1/ay 10 1 buch 00 ut 1 1 (oash 52 6450) 1880 -5,00 Decr 1 By Jurnaco 197 4201/5 ept 100 Cash 28,75 11 10 11 10 Adone 14 3,25 Cash Balance #46,00 #216.00 12,25 1882 By Ralance 12,25 8,00 Lemo 30, 4 28, a Long 169 16,50 218 75 1883