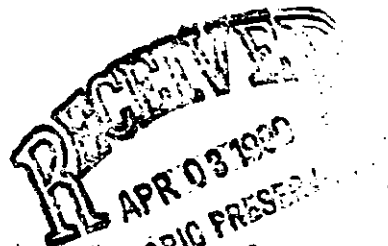


United States Department of the Interior
National Park Service

National Register of Historic Places Registration Form



This form is for use in nominating or requesting determinations of eligibility for individual properties or districts. See instructions in *Guidelines for Completing National Register Forms* (National Register Bulletin 16). Complete each item by marking "x" in the appropriate box or by entering the requested information. If an item does not apply to the property being documented, enter "N/A" for "not applicable." For functions, styles, materials, and areas of significance, enter only the categories and subcategories listed in the instructions. For additional space use continuation sheets (Form 10-900a). Type all entries.

1. Name of Property

historic name Borneman Mill
other names/site number Stauffer Mill

2. Location

street & number Route 100 not for publication N/A
city, town Washington Township vicinity N/A
state PA code PA county Berks code 011 zip code 19504

3. Classification

Ownership of Property

- private
- public-local
- public-State
- public-Federal

Category of Property

- building(s)
- district
- site
- structure
- object

Number of Resources within Property

Contributing	Noncontributing
<u>4</u>	<u> </u>
<u> </u>	<u> </u>
<u> </u>	<u> </u>
<u>4</u>	<u>0</u>
	Total

Name of related multiple property listing:
Gristmills in Berks County

Number of contributing resources previously listed in the National Register 0

4. State/Federal Agency Certification

As the designated authority under the National Historic Preservation Act of 1966, as amended, I hereby certify that this nomination request for determination of eligibility meets the documentation standards for registering properties in the National Register of Historic Places and meets the procedural and professional requirements set forth in 36 CFR Part 60. In my opinion, the property meets does not meet the National Register criteria. See continuation sheet.

Signature of certifying official _____

Date _____

State or Federal agency and bureau _____

In my opinion, the property meets does not meet the National Register criteria. See continuation sheet.

Signature of commenting or other official _____

Date _____

State or Federal agency and bureau _____

5. National Park Service Certification

I, hereby, certify that this property is:

- entered in the National Register.
 See continuation sheet.
- determined eligible for the National Register. See continuation sheet.
- determined not eligible for the National Register.
- removed from the National Register.
- other, (explain:) _____

Signature of the Keeper _____

Date of Action _____

6. Function or Use

Historic Functions (enter categories from instructions)

Agriculture/ processingDomestic/ single dwellingAgriculture/ animal facility

Current Functions (enter categories from instructions)

Vacant/ Not in UseDomestic/ single dwellingAgriculture/ animal facility**7. Description**

Architectural Classification

(enter categories from instructions)

Other: frame gristmillOther: vernacular farm house & barn

Materials (enter categories from instructions)

foundation Stonewalls WoodStoneroof Metalother Stucco

Describe present and historic physical appearance.

The Borneman Mill is situated in a limestone valley known as the "Butter Valley" because of the prominence of the dairy farming industry along Route 100 near the Perklomen Creek in Washington Township. Located on a dairy farm, it is a rare example of a small "farm mill", built to perform farm chores with the use of water power. In addition to the little frame mill, the farm buildings include a large stucco covered stone house, a large stone bank barn, a stone smoke house. Of special interest is the existance of components of a cable drive system that was used to transmit power from the mill to the barn. The historic farm buildings date from c.1810 to c.1880 and possess good integrity. All are of vernacular design and could be considered representative of their period in the Berks County region.

The farm house is the oldest of these buildings, its earlier section dating 1810 and its ell, 1850. Each wing is three bays wide, with two over two window sash and tin covered gable roofs. A frame entry hall is a twentieth century addition at the west end of the later wing. The smoke house is believed to date from the 1850 period. It is a one story structure, about ten feet square, with a tin roof. The barn, dating after 1850, is of the Pennsylvania Dutch Switzer type, with stone walls and a frame forebay supported by stone end walls. The lower stable area is used for dairy cows, while the upper threshing floor and hay mows are reached by a solid ramp with double width barn doors on the northwest side. Above these doors can be seen the large wooden pulley that was part of the cable drive system. When operating, a long cable connected this pulley to a similar pulley at the mill, a distance of some 300 feet. Power could thereby be transmitted from the revolving water wheel through shafts and gears to operate machines both in the mill and in the barn.

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National Register of Historic Places
Continuation Sheet

Borneman Mill

Section number 7 Page 2

The source of power to run the mill for farm operations was a mill pond that derived its water from springs and freshets. A penstock carried the water to a water wheel inside the mill. This water power system is no longer intact and the head race has been filled in. A small stream, four feet wide and eight inches deep, flows about thirty feet to the north of the mill and backs up to the stone foundation on the north wall. A new pond has been constructed somewhat farther from the mill than the former mill pond.

The mill building was built after 1860. It is two stories plus basement in height and measures 21'6" by 24'6". It has post and beam construction, covered with vertical board siding, set on a stone foundation. Its low-pitched rafter roof is covered with metal. It has six over six window sash. The gable end with the main door faces south and there is a double width door on the attic floor level. The west facade has a large wooden pulley below the cornice for the cable drive which took water power to the barn. There is a low stone addition with modern steel roof built against the west wall. The mill is banked with the north wall showing the full stone foundation and the east wall having a door into the basement and two flanking windows. There is a brick chimney more or less on the ridge line. The exterior is in fair condition.

In the basement the stone foundation rises to the level of the first floor joists which are typical barn type - logs flattened top and bottom. They are supported by a large summer beam running north and south. In the southwest corner of the basement is the spring area, approximately eight feet by ten feet, which flows under the internal foundation wall supporting the small hurst frame and joins the tail water of the water wheel as it exits the mill. The water wheel was located in the northwest corner, the stairs to the first floor, now missing, in the southeast corner.

Floor boarding of the first floor is planed, random width, tongue and groove. Construction of this level and the attic consists of full height posts and horizontal beams supporting the joists and rafters. The sawn attic floor joists, 2.5" x 7", are properly let into the central summer beam on 2' 4" centers. The building is boarded single thickness. There is a full length board partition, off center, nailed to one side of the summer beam. The partition boards appear to be of the same age as the siding, random width, tongue and groove. A stairway to the attic level, along the north wall, has treads and risers and is closed in on the first floor.

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Borneman Mill

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The attic level is an open area, full head room created by the low pitched roof. In the center of this level there is an ear corn cob breaker installed with overhead flat belt drive. The cable drive to the barn is on the west wall. The interior of the mill is in fair condition.

The remains of a small vertical water wheel, approximately six feet in diameter and as wide, consist of the steel shaft, oriented north and south, its bearings and two cast iron hubs designed to accommodate wooden arms. The arms and housings are gone suggesting that all these parts were of wood. There is no indication of how the water waqs let onto the wheel.

The water wheel shaft has on it a cast iron face mortise gear approximately six feet in diameter. This meshes with a cast iron pinion gear of an early form on a short steel vertical shaft which has, above the pinion, a larger cast iron mortise spur gear. To the east of this spur gear was located a drive for the 2' 7" millstones which have been removed from the mill to the yard, near the house. To the northwest of the spur gear was the vertical steel shaft which powered the other machines above.

On the first floor, hung from the attic floor joists, is a steel horizontal shaft supported on hangers made from smith reworked wagon tire irons with wooden bearings. This shaft has a pin gear on its west end to engage that of the vertical drive shaft and two flat belt pulleys, one in each room, suggesting that machines were powered on this floor, perhaps the blade grinding stone which is sitting in the east room.

The vertical shaft drive shaft on the attic level is not in position but is lying on the floor. It has a flat belt pulley near the top to drive the cob breaker and a cast iron miter gear to power the cable drive to the barn. The millstones, drive train, and furniture have been removed buy their location within the mill is evident. The cob breaker was positioned on the floor above in order to feed directly to the stones. The chop or feed from the stones fell to the basement where it was removed from the mill through the basement door.

8. Statement of Significance

Certifying official has considered the significance of this property in relation to other properties:

nationally statewide locally

Applicable National Register Criteria A B C D

Criteria Considerations (Exceptions) A B C D E F G

Areas of Significance (enter categories from instructions)

Engineering
Architecture
Industry

Period of Significance

c.1810 - 1939

Significant Dates

c.1860

Cultural Affiliation

N/A

Significant Person

N/A

Architect/Builder

N/A

State significance of property, and justify criteria, criteria considerations, and areas and periods of significance noted above.

The Borneman Mill is eligible for the National Register under Criteria A and C. The building was a multi-purpose structure designed to provide services only for the farm on which it was located and therefore it is referred to as a "farm mill". At one time there were several others of this type located on farms along both sides of Route 100, from the village of Bally north. This is the only known farm mill remaining in situ within the County. It represents a rare example of a type of small mill that was part of local milling history. The associated buildings, the house, barn and smokehouse, are included in the nominated property because they were historically associated with the mill during its period of operation. Under Criterion C, the mill is significant as an example of the type of power system and technology used for a farm mill.

The farm on which the mill is found was owned by the Borneman family during the mid 1800s. About 1860 Andrew Stauffer purchased the farm and it is believed that Stauffer built the mill. Stauffer owned the property for only a few years until it reverted to the Bornemans who continued the farm in family ownership until 1970. The Bornemans used the water power until the dam was washed out in a storm, sometime during the 1930s. The dam had been fed by two streams and had no by-pass, which made it necessary to clean it out periodically. A farm pond, not used for water power, replaced this dam in the 1970s.

The technological significance of this mill lies in its use of water power for the needs of one farm and the adaptations required for the variety of processes that were carried out. These uses included milling, with millstones, of animal feed and probably corn meal for the farmer's family; the threshing of grain on the barn floor with power transmitted through a cable drive; and the powering of an edge grinding stone, a meat grinder, and possibly a washing machine within the building. A built-in butcher kettle on the first floor would have been also used for heating water for other purposes. The source of this water was a spring in the mill basement.

See continuation sheet

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Borneman Mill

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Farm mills were well known in Europe at an earlier date, especially in southern Germany where examples may still be found. The Borneman Mill is an excellent example of harnessing available water power on a small scale to do the work of a farm.

9. Major Bibliographical References

Berks County Conservancy Multiple Property Nomination: Gristmills In Berks County, 1989
Kindig, Stephen, Borneman Mill Survey, 1989

Previous documentation on file (NPS):

- preliminary determination of individual listing (36 CFR 67) has been requested
- previously listed in the National Register
- previously determined eligible by the National Register
- designated a National Historic Landmark
- recorded by Historic American Buildings Survey # _____
- recorded by Historic American Engineering Record # _____

See continuation sheet

Primary location of additional data:

- State historic preservation office
- Other State agency
- Federal agency
- Local government
- University
- Other _____

Specify repository: _____

10. Geographical Data

Acreeage of property Approximately one and one-half acres

UTM References

A	1 8	4 5 1 1 0 0	4 4 7 3 9 0 0	B	1 8	4 5 0 9 4 0	4 4 7 3 8 6 0
	Zone	Easting	Northing		Zone	Easting	Northing
C	1 8	4 5 0 9 7 0	4 4 7 3 8 0 0	D			

See continuation sheet

Verbal Boundary Description

See continuation sheet

Boundary Justification

See continuation sheet

11. Form Prepared By

name/title Phoebe Hopkins, Project Director and Stephen Kindig, Project Consultant
organization Berks County Conservancy date August, 1989
street & number 960 Old Mill Road telephone 215/372-4992
city or town Wyomissing state PA zip code 19610

United States Department of the Interior
National Park Service

**National Register of Historic Places
Continuation Sheet**

Borneman Mill

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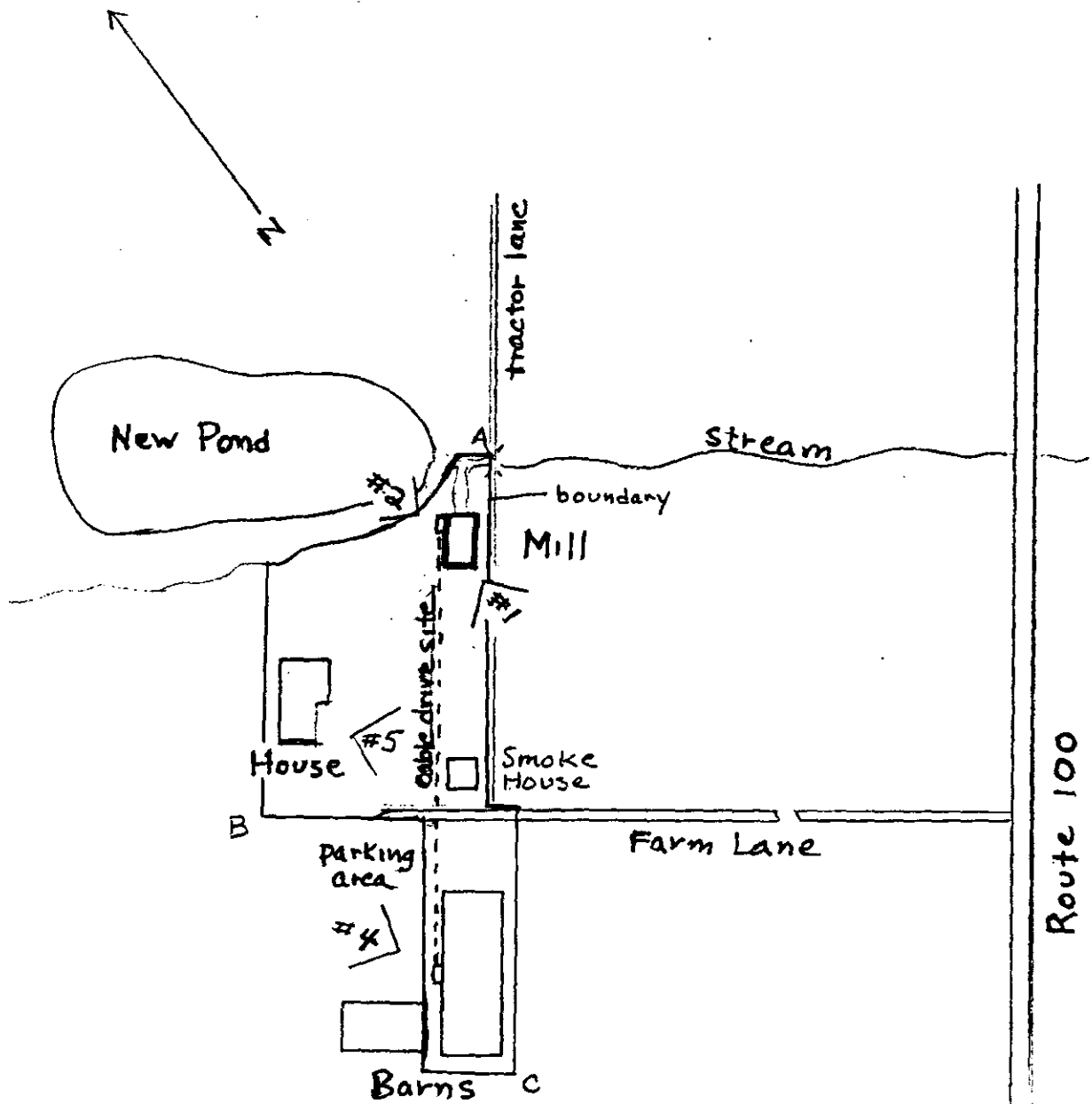
VERBAL BOUNDARY DESCRIPTION

Starting at a point on the farm lane where a tractor lane leads northeasterly toward the mill, continue along the northern edge of the tractor lane past the mill to a point just beyond the bridge across the stream, thence continue northwesterly along the small stream to a point just behind the farmhouse, thence continue southwesterly within five feet of the back of the house to the parking area southwest of the house, thence continue along the north edge of the parking area to a point five feet beyond the northwest side of the stone barn, thence continue southwesterly within five feet of the barn to the west end of the barn, thence continue within five feet of the west end of the barn to the front of the barn, thence continue northeasterly within five feet of the front of the barn to the lane, thence continue northwesterly along the lane to the place of beginning.

BOUNDARY JUSTIFICATION

The boundary includes all associated buildings: the mill, house, barn, and smokehouse. Non-contributing buildings, such as modern farm sheds and outbuildings necessary to the operation of a modern dairy farm, constructed after 1940, are not included within the nominated property. For this reason the boundaries are drawn within five feet of some of the contributing historic buildings.

Borneman Mill Berks County, Pa.



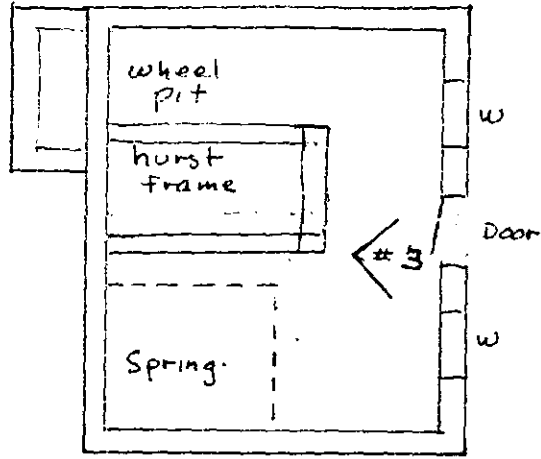
Boundary A ————— B - C - A

UTM Points A B C

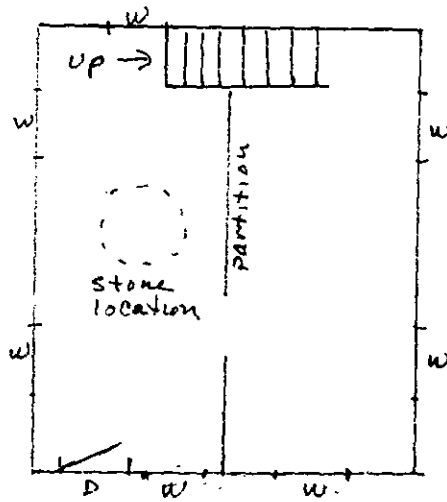
Photo Views <#1, 4, 5 exterior views

Not to Scale

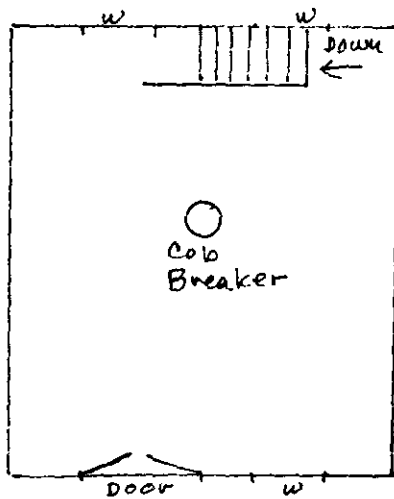
Borneman Mill Berks County, Pa.



Basement



First Floor



Second Floor

< Photo location

Not to Scale

Borneman Mill
Berks County
East Greenville Quad
Zone 18
A 451100 4473890
B 450940 4473860
C 450970 4473800

