National Register of Historic Places Inventory—Nomination Form

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7: Description

Condition

X excellent

X-good

X fair

-----deteriorated X ruins X unexposed Check one
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Check one
_X original site
__moved date

Describe the present and original (if known) physical appearance

The Brandswine Powder Mith district of 216 acres is beated in the Brandswine River Valley extending about two miles upstream from the Tyler McConnel Bridge on both sides of the river excluding the lower four ers chicken A tey district. Evolving from scattered late 18th century mith sites and communities into the largest black bowder plant in the North Americant in operation from 1803 to 1921 the district is historically significant. In the approximate century and a relate of indiction the landscape. Parts, as the februarian with Manson owned by Mrs. Crowning held, were refundanted after value cosed: There are 16 contributing buildings, 22 recognization above ground building mins, many significant outler telated manmade features as three dams, over a mile of faces, bridges, harrow gauge fairway, etc. There are only seven, non-contributing modern structures: The Museum is aware of over 100 underground building sites including factories, workers housing, sheds, barns and a manson:

This nomination includes much of the 185-acre Eleutherian Wites Landmark district of 1966, and the Brandywine Manufacturers' sunday School Register building of 1970; it also reflects the Foundation's subsequent acquisition of approximately 45 acres containing significant structures and sites, which are an integral part of the historic context.

Building Survey (with reefs)* contributing

S-1. Centennial Gate House and Gates

Stone, one from gate house with peaked state foot. Joined to pedestrian gate (tiron) and large gates of iron reading "1802 du Pont de Nemours 1902." Gates supported by stone columns. Each topped with stack of four 11" carmondats. Built in 1904, these gates controlled access to the explosives plant.

S-2. Bickerhouse

Stone barrelikofed "fileproof" building with interior arches supported by cast iron columns. Built ca. 1863 to house the highly flammable picking operation, the building had several subsequent functions including paint house. The original second story wood frame section is missingicurent use is museum store...

As an arbitrary distinction, complete buildings with roofs intact have been separated from runs or she is without roofs.

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S-3: Henry Clay Factory

Three-story stone building with gable roof. Built 1814-1815, it was entarged to its present size in ca. 1863. The roof configuration was originally expression, giving way to barke 1 and finally the present gable. At the rear of the building is a believer complete with the original militibely. Current use is for museum exhibits and offices:

/ S-4: New Century Hydre

Two section reconstructed frame building with metal gable roof. Foundations are original 1980 hydroelectric plant. Building is a 1976 reproduction based on archaeology and original photographs. Euthent us is hydroelectric generation and museum exhibit.

S-5: Steam Plant

Stone Walis, gable 20 year bond roof. In 1885 an old stone house was guited and enlarged to house a corliss steam engine and electric generators. A brick botter house (now gone) was appended to the structure. A 90' steel smokestack (base only remaining) insured no sparks would get into the adjuning powder buildings.

S-6: Motor House Blower House

Small stone shed like building with #22 galvanized iron 180f. Originally built as a blower house for a hearby late 19th century glaze milin, this building was rebuilt and enlarged in the first world war to accommodate a hoisting engine and drive for a hearby graining milin elected on the site of the previous glaze milin.

S-7. 814 Fagle Roll Mills

Three heavy buttlessed stone walts, with spen front facing the river. Single stope iron roof. Originally built in 1839, these milits were altered to their current appearance in 1886. The lower milit contains its original 8-ton iron roll wheels and has been restored to operational status. The upper milit contains exhibits, This is one of two such exhibits known in the world. The other in England has much reconstructed machinery.

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S-8. Old Machine Shop

Stone building of three sections each having a barrel roof. Built in 1858, this building housed the machinery used to manufacture and repair the machinery used in the powder process. The building now houses a restored operative machine shop and back powder related exhibits.

S-8. Wheelwight Shop Carpenter Shop

Originally built as a two-story building, the top floor has disappeared reaving a one-story stone structure with a gable roof. The roof truss system appears to be original. The building currently houses restrooms, a bolier and room for school program activities. Plans for a restoration of the second floor have been done.

S-10. Blacksmith shop

Converted from a one-story blacksmith shop to a two-story duplex dwelling after 1921, this building retains the original first floor stonework. Restration plans are in the research stage. The adjoining from gates controlled access to the powder yards.

S-11. Gibbons House

Of a bank of several workers, houses, this stucced three-story gable-roosed building with frame shed and porch is the only survivor. He has been restored to the late 19th century appearance including furnishings. The first reference to its existence is in the 1840s.

\$-12. Barn-Carriage House

Frame structure with front doors for carriage storage and side door for two horse stalls. This is the best preserved frame building in the district. He was built by the Belins in 1857.

S-13. Spring House

Stone walted, shake gable roof, with two doors each teading to a room with a raised brick floor. Historic data regarding building wavalable; however, it is assumed to be mis-19th century.



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S-14: Brandywine Manufacturers' Sunday School

Stone building with columned porch and vestry addition: Already separately on the National Historic Register (1970); this 1817 structure served successively as a school for workers' chindren (taught by the du Pont daughters), a church, an office and a private residence: It has been partially restored and fittly furnished as a school.

S-15. Belin House (xellow house)

Built in 1818 for the manager of an unsuccessful tanning operation, this frame structure was latter the home of a succession of bu Pont bookkeepers including three generations of the Belins. The building underwent a Victorianization and changes ouring its lifetime. Most of the changes were poor quality and were so rotten that the foundation dismanded them in a recent upgrading.

S-16. Chicken Coop

Wood frame building with shake gable roof. One walth has had garage doors added. Late 19th century photo shows it as chicken coop (with chickens) and surrounded by a picket fence:

\$-17: 81 h Storage House

Stone building with single slope roof. Mid-19th century construction, it was originally used to store kerosene and hubricating of the This building is beated some distance from structures containing explosives:

\$-18. Sulphur Storage House

Stone multipay shed with single pitch roof, this building at one time had a wooden addition of equal size adjuning it. This size was in use in the 1830s; however, expossions leave some doubt what fabric dates from which period. Late 19th century photos show this building. Euthent use is partial sulphur storage exhibit and partial use for storage:



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S-19: Press House

Three stone walls, wooden facade, gable roof. From before 1834 (earliest known Hagey Yaid survey) this structure was subject of several exposions, one of which killed Alexis I. du Pont in 1857. It has been restored to its late 19th century appearance including a 37,500 lb. powder press.

S-20 Bucket House

Stone shed building with single pitch roof. A building on the site first appears on the 1834 survey. Undoubtedly explosion modified, it retains its late 19th century appearance.

S-21: Composition House

Three heavy stone walls, barrel roof, open front.
Com position houses hold the ingredients before they are taken to the wheel mills. Dating is uncertain but assumed to be mid-19th century. Oddly, no identified historic photographs have been found. Roof was restored by hagey following original curve and using original pockets for the trusses. Facade may have existed.

S-22: Pump House - Sawmill

Stone foundations and some walks. Rest of walks wood frame, inch 1801. Sites of Dawes, sawm in, it was converted and modified in the late 19th Century to pump water for domestic use and find pond which served as a feser-voir for the fire lines.

S-23. Graining Mill

Three buttressed stone walts, 20 year bond roof, single stope, wood facade. This building contained several graining machines from before 1834 to 1921. It has been restored to its late 19th century appearance and houses a graining machine.

S-24: Birkenhead Roll Mills

Pair of buttressed wheel mith buildings with single pitch wood roof. A restored waterwheel revolves between these buildings. These buildings were drawn in 1936 by HABS: They were bu Ponts first attempt at incorporating by

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S-24. Birkenhead Roll Mills contid

Wheels rather than by motar and pestle: Built in Sa: 1822-1824, they were so successful that hime other pairs were built on the property and the stamp miles were phased out by 1834:

S-25. Engine House

Stone Walts, gable roof. O'iginally built with a barrel roof (Which was lost in an expossion and rebuilt as a gable roof). This building houses a steam engine and bolier which powered a hearby pack house. O'iginal election date assumed to be ca. 1860, it has been restored with an operating steam engine.

S-26: Bress Bump

Square stone walled, barrel roofed building. It is assumed the current building dates from the mid-1890s on earlier foundation due to the fact of a major exposion which leveled the area.

S-27: Rebel Shanty

Stone Walts. Replaced incorrect roof badly deteriorated: Correct barrel roof known and with be replaced when time and finds permit. Legend has the that a confederate sabotage team was caught and confined in this store house. Since the legend appears in print in the 19th century, it is likely:

S-28: Motor House

Stone walts, single pitch state roof. Current configuration shows up on ca. 1900 drawing. Building most probably dates after 1895 due to previously mentioned explosion.

S-29. Eagle Bry House

Square peaked roof, stone building, with lean-to-shed. Shed has furnace remains. The 1826 Fairland Survey indicates a building on the site. The existing external fulfiace, the early way of drying powder, would indicate that much of this building is of the early date.

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S-30. Worker's House

Stone house, two story, shake gable roof with cooking fireplace. Sie use is very early; however, the 1818 expossion destroyed the structure. Subsequent expossions are also assumed to have caused repairs or modifications. Whis crown inside made building into a guest house of two large rooms. Appearance is confect for early 19th century period:

S-31: Workers' Bormitory

Site use is known to be pre-1818 as the building on the site was destroyed in that explosion. This two-story stone house with a shed added to the back had a roof pitch steep enough to suggest the original structure was reconstituted.

S-32: Bag Wash House

This was occupied by 1826; however, whether this simple stone gabled 1886; structure has most of the original components is subject to speculation. It was used for washing the bags in which potassium ritrate was shipped.

S-33: Bag Store House

This one-story stone building with a state gable roof added during the crowninshield era retains two interesting features: It has iton shutters over the windows and is wood liked. The iton shutters indicate a high concern for the and indeed bags taden with salipeter were highly flammable:

S-34. Worker's Buplex

Stuces, state rested late 19th century duplex house. No records exist of the building or this structure; however, licappears on early 20th century maps:

\$-35. Garage - Yard Office

Frame, German sided, gable 1886ed building modified and moved to house one modern automobile. Building materials and construction techniques indicate a late 19th century date.

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\$-36. 81d Coal House

Built ca. 1807, this stone building with its tunnels and cylinders for distining charcoal was modified several times during the 19th century as the technology for making charcoal improved and because of explosion damage. Charcoal distining houses are extremely fare industrial survivals of a technology invented in the late 18th century.

S-37. Waiting Room

Originally a two story building, this is the survival of a three building complex, this stone structure originally had a second story. The lower level was a carriage house; the upper level a doll for stable hands:

5-38: Barn

The barn was criginally built in 1802 and expanded in 1844. This large stone barn with wood front and back whis and wood shake roof supported by queenpost trusses has two levels and a two story appended addition facing the garden. A vehicle shed is also appended. This was one of several large bars connected with the farming operating and maintenance support for the craft animals.

S-39 Lime House

Stone gable roofed building directly behind the barn. Frection date is unknown. The building appears on the 1904 Survey map labeled as a "lime house" . presumably connected with sanitation and whitewashing.

S-40. First office

Stone building in two sections, one with peak state roof, the other with gable state roof. Built in 1837 as the first office building of the Bu Pont Company, it served for over 50 years as the company's nerve center.

\$-41. Spring House

Stone building with cast concrete tile roof. No building records exist. However, an early 19th century date is highly likely with the current roof being replaced in the Crownishield era:

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S-42: Eleutherian Mills Mansion

Stucce over stone, three-story manish. This is the original manish built for E. I. du Pont beginning in 1802. Five generations of the du Pont family have 8c-cupied it, each making some contributions. The building is assumented in the B88k Flautherian Mins by Maureen buildy.

S-43. Lammot Exhibit Building

Frame building, gable state 180fr, moved to site from the adjoining beam property. The little Greek revival structure with columns and fam light has been moved at least twice. Legend has it that tamment du Pont used it as a shop. Other evidence would indicate it was probably his father's shop. The internal evidence indicates an 1830-1840 erection date.

S-44: Soda House

Large stone building with three original gable-roofed sections. Elected in 1888: One of the most important structures on the property, this building stored and processed sodium reliate for use in soda powder (a Bu Pont innovation of 1858). It has been adaptively reused as a pletteric record managements center and auditorium:

S-45. New Coal House

This building was exected ca. 1888: While appearing to be a one-story gable roof type building, in actuality the lower level is honeycombed with he tunnels and cylinders used to make charcoal. This and the old coal houses are rate survivals of the charcoal distilling process.

S-46. Barn

This one story clapboard building with one addition, decorative cupola and butch doors, is an enigma. It does not appear on the 1904 survey but was filmly in place in 1932 when harvey kelland went to work for the carpenter estate. The inside is liked with "beaded board facing." tater additions of a chimney and large cooking with are in place:

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Building Shells and Buins

contributing

R-1. Big Mary Claze William

Stone walk, stone shed without roof. Built late in the 19th century, this was the site of the largest glaze milition the property and possibly the largest in North America: It originally contained him glaze barnels:

R-3. Watsons Glaze

Three heavy stone walts set in the hillside. Originally built as a late 19th century glaze mility, the site suffered from an explosion during the first world war and was rebuilt as a graining milit.

R-3. Rolls 17-18

Pair of roll milis consisting of three heavy walls and a light tin 180f. Front is open. The rear is protected by a massive mash wall. Date stone indicates 1856 erection date with an 1885 rebuilding. After 1903 they were designated "Lesmoke" milis as they were used in making a complitation black and smokeless powder.

R-4: Rolls 15-16

Like above without massive flash wall. Bate stone indicates 1856 building - 1885 rebuilding.

R=5, Rolls 13-14

These miles were built on an earlier site in 1882. Archiecture similar to other 19 standing buildings;

R-6. Rolls 8-18

Similar to above rollimills. Bate stones indicate 1829 building and 1887 rebuilding. These miles retain the rear flash walts.

R-7: Lady Mills

Single rollimith like above but smaller. No current record of construction date. Internal evidence indicates postificate lits function was to produce experimental powders.

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R-8. Coal Mill

The site was used in the late 18th century by Dawes, ca: 1818-1823 it was used by Garden as a familiery. Later it was used by Garden as a familiery. Later it was used as a dust multi. Only foundation outlines and turbine pit remain.

R-9: Bank with Cibbons House

Two stone room outlines with fireplace and stone stairway: Construction dates uncertain. These foundations with be the subject of an archaeology program beginning in 1984 and are highly important to the interpretation of the industral community.

R-10: Rolls 7-8

Similar to above roll milds: Date stone indicates 1836 building: These milts and hos: 1 and 2 are not rebuilt to the later "undergeared" configuration:

R-11. Rolls 5-6

Similar to above rolling like; Bate stones indicate 1826 building - 1890 rebuilding; These Wills retain the rear flash wall.

R-12: Rolls 3-4

N:/:

Similar to above. The upper milit was the site of an early stamp milit. The lower milit was built as a roll milit.

R-13. Glaze Milh

Pre-1834 site: Three heavy stone walts, roof and facade missing. This building aways was a glaze mid in which barnets tumbed the powder. Original barnet is on hand for fiture restoration:

R-14. Bry Table Site

One restored drying table and foundation for hime others: O'ry hally powder was dried in the sun or in the dryhouses. This site was used before 1834 (earliest survey) until the late 19th century.

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R-15. Back House

Three heavy walls set into the hillside are all that remain of the pre-1834 pack house site. There is no known photograph of the building. By 1904 the site was aban-doned.

R-16. Sweepings Room

Built into the hillside three heavy retaining walls and foundations remain. The building was a storehouse for powder dust which was recycled throughout the process: tate 19th Century photo shows frame building on foundations. tion.

R-17. Hagley Back House

Foundations only survive of a large three building con-nected complex. It bew up in 1863, 1873, and in 1915 and was not rebuilt after the last explosion.

R-18. Bust Will

Although the upper race serviced five milits, the dust militations are the only ones above ground. The site was in use from ca. 1803 units the yards closed:

Intact Manmade Features contributing

M-1. Lower Hagley Ram and Race

Constructed during the War of 1812 to serve the textile milin later designated as Henry Clay Factory, the dam was rebuilt ca. 1900 and is an example of concave concrete construction of the turn of the century with gear-driven face control gates.

M-2. Upper Hadley Bam and Race

The dam was built in the late 18th century and rebuilt and heightened in the 19th century. The race was lengthened and heightened until it powered over 20 militis, elevators and pumps. It currently provides power to finitiscate exhibits and the hydrolectric plant.

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M-3. Eleviherian Mills Bam and Race

The dam was erected by Bu Pont in ca. 1803 and is of timber and stone construction. Although the wood work has been restored, the original configuration has been duplicated. The stone-lined raceway is about 2/3 open and contains three original 19th century water turbines.

M-4: Fron Bridge

Built in 1874 on Civin War vintage piers, this according to HAER is the second oldest iron bridge in Belware: HAER description: "A narrow-gauge iron bridge, the Brandywine Ruinoad Bridge was built in two stages. The four stone piers were built in 1863 and the Praint-type iron truss was completed in 1874. A section-used bridge, in has been converted for botal vehicular use and in is in excellent condition."

M-5. The Folly

Beginning in 1923, Frank Crowninshield erected his concept of a classical garden on the site of the powder milits and refinery. As part of a nationally famous garden tradition including tongwood, writerinur, and fractors restored garden, this vestige makes an interesting cultural statement. The pools, columns, statues, kettles on pedestals, warways and synthetic mins seem to exemptify the taste and values of the era:

Underground Sites

Bue to explosion, replacement, deterioration and dismanting a great many structures have disappeared. For example, the keg milit burned in 1896; the 1880 replay press blow up in 1917 and the site was fined in; hagey house manison was torn down in the early 1950s; a massive explosion destroyed a large part of the upper property in 1890 and rebuilding and not follow the original design:

As these sites are part of the district's history and contain valuable information recoverable by archaeology, they do contribute. Whether all these contributions are realized in this century or ever is countiful. However, the owner (hadey) has a policy of archaeology explorations and subsequent restolations ledge, the early garden). To ignore the existence of these sites on this nomination would be an oversight. To hist all the sites is impossible with the current level of knowledge, as we know of over 100 and this is only a partical accounting:



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Buildings

non-contributing

N-1: Frizzell's Store

Small gabled 180f frame structure with lean-to addition: Built ca. 1968 as a maintenance shed, it was redesigned as a vending operation for young museum visitors. It is stylistically sympathetic to area structures of the late 19th century. It has no historic nor architectural meric

N-2: Carriage Shed

Pesigned to emulate the carriage sheds on the property, this 1975 structure has exposed post and beam framing with shiplapped siding and shake roof. It was constructed to house food vending machines (an unsuccessful venture). It is a sympathetic intrusion.

N-3: Race Shed

Shed structure constructed in 1978 to protect workers white cleaning out the trash racks. Loosely patterned after the carriage shed; lithas no historical value. It is a sympathetic intrusion.

N-4. Eleutherian Wills Historical Library

Modern research hibrary constructed 1959-1961. Stone and stucce with metal and gravel over tar reofs. Building has no historical significance. Architecture was designed to be tasteful and efficient, making it a sympathetic intrusion.

N-5: Upper Gate House and Gates

Stuces building, iron gates, stuces wall and columns. Bulit in 1961 to be tasteful control point. It has no historic value.

N-6: Greenhouse

Briti in the Crowninshield era and extensively modified in the mid-1970s, this greenhouse serves the Foundation's needs for beginning plantings. It has no historical significance nor architectural metal.



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Maintenance Building N-7

Frection date between 1923-1938. Built as an overflow horse barn, lit was later used in conjunction with some duestionable activities. The Museum has extensively modified, lit to serve as a mantenance headquarters. Frechistruction, clapboard sides, gable roof with one don't has no historic value nor architectural merit.

N-8. Dog Kennel

Decidedly the worst building on the property, this Decidedly the worst building on the property, this pox-lke balloon frame structure was erected to house hunting dogs. The chairlink huns have been dismanted. Being in a semi-concealed beation, it is used for storage. It has no redeeming historic or architectural value and is only hom half functional. Its demolitor in the foreseeable fiture is highly likely.

8: Significance

Period prehistoric 1400-1499 1500-1599 1600-1693 1700-1899 X 1800-	Areas of Significance—E archeology-prehistoric , archeology-historic agriculture X architecture art commerce communications	Eemmunity planning conservation economics education engineering exploration/settlement x.imdustry	landscape architecture law literature military music prhitespphy politics/government	science sculpture social/ humanitarian theater transportation
<u></u>	communications	iñvention	- Pontion government	other (specify

Specific dates

Builder/Architect

Statement of Significance (in one paragraph)

The Brandswine Bowder Wild district near Wilmington, polawis, was the size of continuous industrial lise from the late 18th century to 1921 and is significant to the industrial and technological history of both the state and the harden. Beyining as a series of selecontained in incommunities, increased into the largest manifectury of back sum bowder on the world american continent. Not only was back powder produced, but it various times, there various parents, there were two gristmines, to sawn the, one world parents, there were two gristmines, the sawn the, one world parents and stating in the extine military and stating and indicated in the stating and will be supported to cooperages and a nost of other industries, wood and metal cooperages and a nost of other industries, wood and metal the unique powder militarisecture, designed to change the unique powder militarisecture, designed to change the supportation. The unique powder militarisecture designed to change, contemporary constitution lads (e.g., better 1805). From the contemporary constitution lads (e.g., better 1805). From the strict emerged inventive successes such as the improved powder press, and faithful the conventional speeds tanning process; conditions in the steep river bank. From early commercial severaged in the steep river bank. From early commercial sourced in the steep river bank. From early commercial sourced from tocal militaries of the burst he but point company, this creation. The content is provided from tocal importance to national significance. The emissed from tocal importance is national significance. The emissed from tocal importance to national significance. The emissed from tocal importance to national and opening of the coal theirs.

The upper property was the site of an 18th century inclustral venture by signer of the constitution dated broom. He effected a dam, race and both a cotton milit and a sawmilit. In 1802 E. I. du Point purchased 65 acres of Broom's holdings for \$6,740. Through an agent, as he was not at that time a citizen, du Point continued to expand buying parcels along the creek and "inland." These served as sites for worker housing, farms to supply wool for his brother's adventure in textiles, and to supply willow for charcoal productions, land for testing powder and sites for family manisons. The initial manifectury was significant in two respects. As powder miles go, it was large.

9. Major Bibliographical References

See continuation sheet

Acreage of nominated property 216 Quadrangle name Wilmington North Quad. JTM References	Quadrangl	e scale 1:24000
1 8 4 5 1 2 3 0 4 4 0 3 4 1 0 Northing	B 1 8 4 5 0 5 4 0 Zone Easting	4 40 2 5 5 0 Northing
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ist all states and counties for properties overlapp	ping state or county boundaries	
state Delaware code 10	countyNew Castle	code 003
tate code	county	code
11. Form Prepared By		
name/title Robert A. Howard		
rganization Hagley Museum	date 12/9/83	
treet & number Box 3630	telephone (302)	658-2400
ity or town Greenville	stateDelaware	
2. State Historic Preser	vation Officer C	ortification
12. State mistorie rieser		Citimoation
A CONTRACTOR OF THE CONTRACTOR	e is:	
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nationalX_ state As the designated State Historic Preservation Officer for t	he National Historic Preservation Ac National Register and certify that it ha	of 1966 (Public Law 89- s been evaluated
national X state As the designated State Historic Preservation Officer for to 165), I hereby nominate this property for inclusion in the Naccording to the criteria and procedures set forth by the A	he National Historic Preservation Ac National Register and certify that it ha	of 1966 (Public Law 89- es been evaluated
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United States Department of the Interior **National Park Service**

National Register of Historic Places Inventory—Nomination Form

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and it boasted the latest in French Bowder technology: It was therefore capable of producing a sentificant quantity of bowder that was of excelent quality. When the war of 1812 but demands in excess of the capabilities, du bont bought the next mith size downstream, the hadey property, from Rumford bawes: Bawes ran a greation, the hadey property, from Rumford bawes: Bawes ran a greation in, sawn in, and then remain and stitting mith: (some records and the 1797 insurance map are at the hadey Museum.)
The lower hades area, size of the henry clay with, was the size of various textile mith operations from the war of 1812 unith the 1880s when the bu bont company converted it into a metal keg mith. Bu bont had had varying financial ownership ressor associations with the mith unith it was converted to sompany use. The powder miths continued in operation unith 1921, when the bu bont company closed the bowder varies on the branch has the buse was the firm by members for purchase. In 1923 Francis B. and Louise (du bont) crowninishied (a great-granddaughter of E. r. du bont), began a major renovation of freundaughter of E. r. du bont, began a major renovation of freundaughter of E. r. du bont, began a major renovation of freundaughter of the hadey Museum:

While the site is historically important as the location of the first by Bont Company miths, which broduced half the bowder used by the bullon during the civil win, it is be steated significance as documentation of an almost obsolete technology. The museum has restored in situ, of has in storage awaiting inside that in in the original buildings, one of three sets of surviving bowder mith mechinery on the north American continent. From an industry consisting of dozens of pants, it has dwindled to one of oxforment and the north lated resource. Bowder mithely by the confishing brain, one set of machinery. For safety reasons they are used to be some mithely for safety reasons they are used to be some machinery. For safety reasons they are used to help are not only nationally intestored are take; restored, they are not only nationally intestored are take; restored, they are not only nationally in the business of the highest is the most complete. It should be noted that the last known operating black powder museums known in the world of which has been panted by the national passes. These are three brooks were panted to those way be up several years ago and was not rebuilt. This is the usual fate of basis powder pante, reducing substitutive the mathematical district stands virtually alone in the should be interested that the safe interpret accurately and real states by, with original builtings on the resulting and with original actually to interpret accurately and real states by, with original builtings on the resulting to be the component of the parties. Mose that this, the crimology in a social cultilitial context.

National Register of Historic Places Inventory Nomination Form

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The grounds of the district, while beautifully main more so than is historically accurate, do not be lettle, the copies numbers of trees were an integral part of the historically accurately blanted to stop factors in case of exposion. Hence, discounting the moved the landscape, Virtually void of intrusions, contributes to site.

National Register of Historic Places Inventory—Nomination Form

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9

Page

Primary Bocumentation

Fleutherian Wills Historical Library, papers, photos, oral interviews, drawings in variuos accessions (best existing source)

Site Specific Secondary Sources

Hagley Staff. The Hagley Museum Euide (Wilmington, BE, Hagley Museum, 1976):

Ouimby, Maureen O. Eleutherian Mills (Wilmington, BE, Hagley Museum, 1977):

Other Secondary Sources (Sampling - not necessarily total site specific)

Carry, William. The du Ponts of Belaware (New York, 1964):

Chambolain, John. The Enterprising Americans: A Business Westery of the United States (New York, 1963):

E. I. du Pont de Nemours & Co., Bu Pont. The Autobiography of An American Enterprise (New York, 1952):

Button, William S. Bu Bont, One Hundred and Forty Years (New York: Charles Scribners Sons, 1942):

Van Celder, Authur Bine and Hugo Schlatter. History of Explosives Industry in America (New York: Columbia University Bress, 1927):

Waltace, Anthony Francis Clark. Rockdale (New York: Alfred A. Knopfe, Inc., 1978):



National Register of Historic Places Inventory—Nomination Form

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UNITED STATES BEPARTMENT OF THE INTERIOR NATIONAL PARK SERVICE

NATIONAL REGISTER OF HISTORIC PLACES EVALUATION/RETURN SHEET

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M-2. Upper Hagley Race (N-3 at end) - This race powers both the restorations S-7 and S-24 and hydroplant S-4.







R-12, R-14, S-20. Restored drytable (one of 10 on site). Wheel mills #3 and 4 in background. Bucket house at right. Race (part of M-2) runs through the center.



R-13. $\underline{\text{Glaze Mill}}$ - Building shell only. Walls capped in original fashion to prevent deterioration.



R-18. Dust Mill foundations and original 1860 vintage Tyler scroll case turbine. Race (M-3) in foreground.



S-1. Gates and Gate House - The access gates moved as the yard expanded. This is the final location. The stone work is original; the gates have been restored twice, but retain some of the original fabric. Original construction drawings in Hagley Museum files.



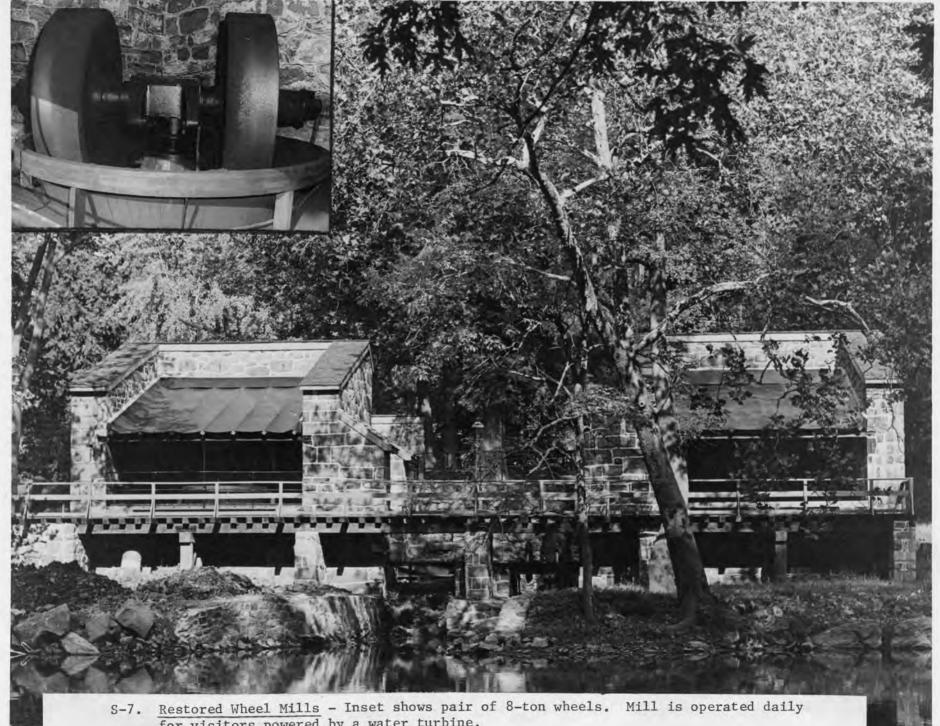
S-2. $\underline{\text{Picker House}}$ - Originally built with wood second floor and iron doors and iron window shutters.



S-3. Henry Clay Factory - Now Museum's Main Exhibit Building.



S-4. New Century Hydro Plant - Foundations original, building 1976 replica scaled from original photographs. This hydroplant produces power for the Foundation property. Depending on the season and time of day, additional power is bought from Delmarva Power and Light or surplus power is sold to them.



for visitors powered by a water turbine.



S-8. Machine Shop inset shows late 19th century photo. Major part shows 1983 recreation of original with award-winning volunteer staff.



S-8. Interior. Restored <u>machine shop</u> with operating 19th century machinery powered by shafts and belts. Award-winning volunteers demonstrate daily for visitors.



S-11. Gibbons House - Photo taken 1982 before non-original light was removed and fences and arbors were restored.



S-15. Belin House - Photo taken in 1974 during renovations. House now has shutters and is painted yellow to conform to the original color.

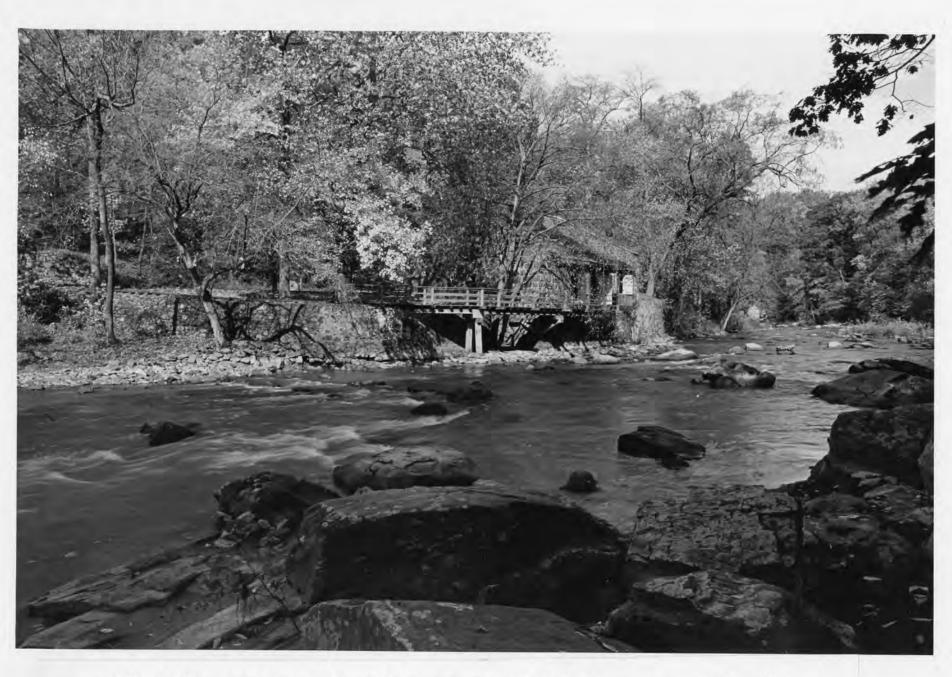




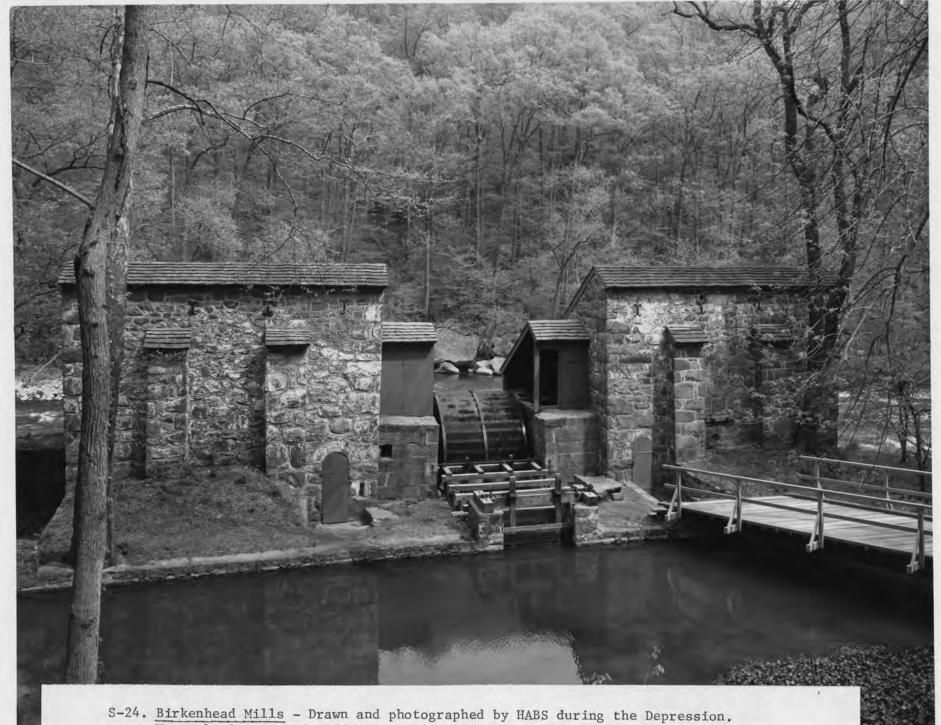
S-18,S-19,S- 20. Press House (S-19) contains original powder press. Railroad car slated for moving in 1984. It was built by American Car & Foundry in Wilmington and is like magazine cars pictured on the property. This particular car came from Carney's Point.



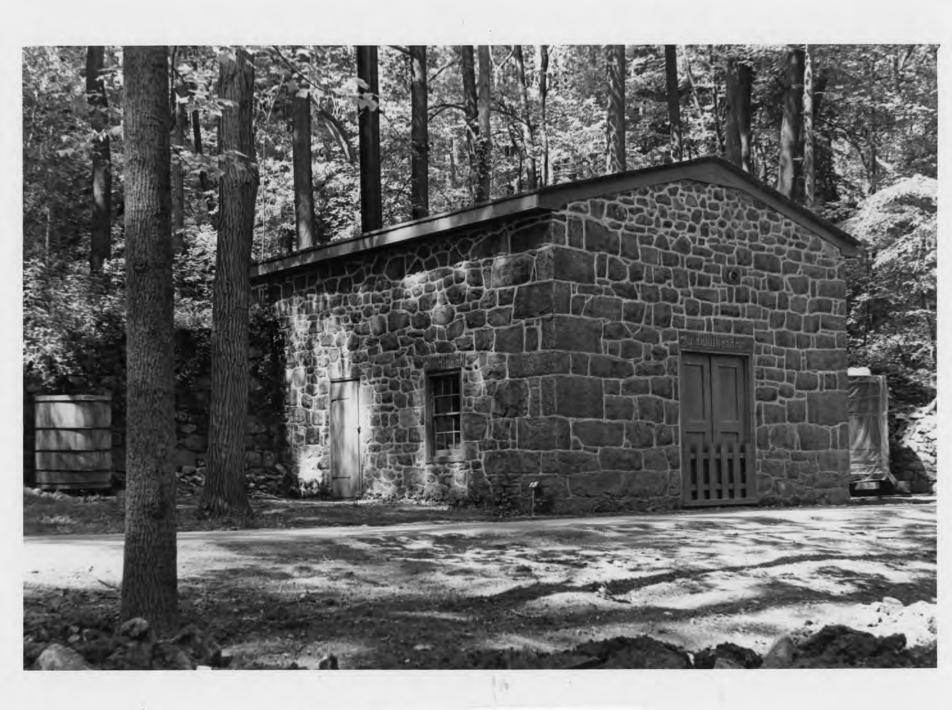
S-22. Sawmill-Pump House - Parts of this building could be the earliest structure standing on the property (reference 1797 map). Wooden superstructure late replacement.



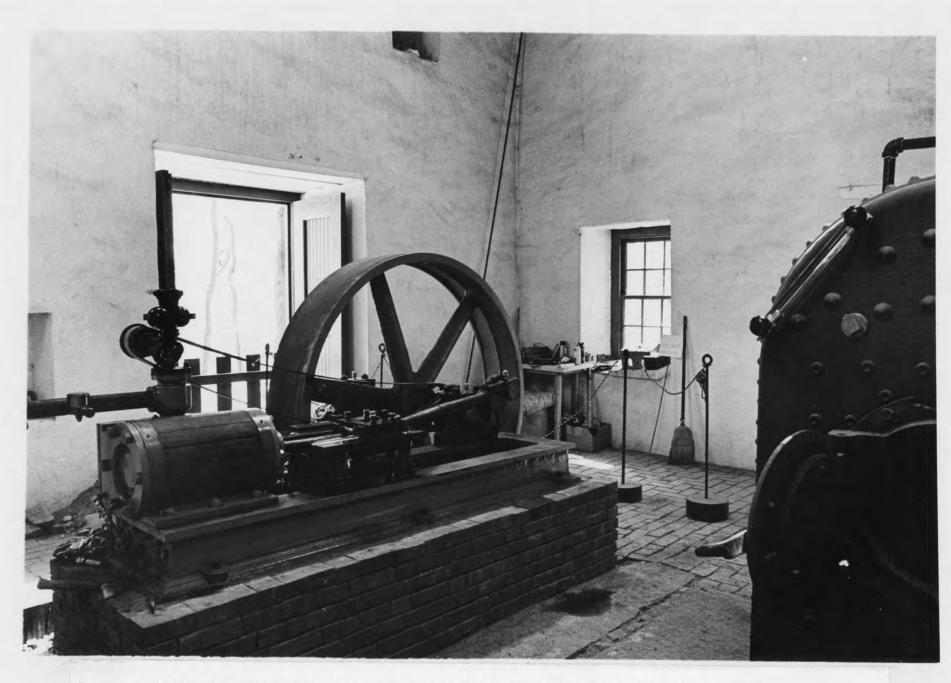
S-23 Graining Mill restored including original graining machines. Open to the public.



S-24. Birkenhead Mills - Drawn and photographed by HABS during the Depression. Waterwheel restored 1966 and rebuilt 1983. Race M-2 in foreground. The bridge is an insignificant modern addition near the site of an original lattice truss bridge.



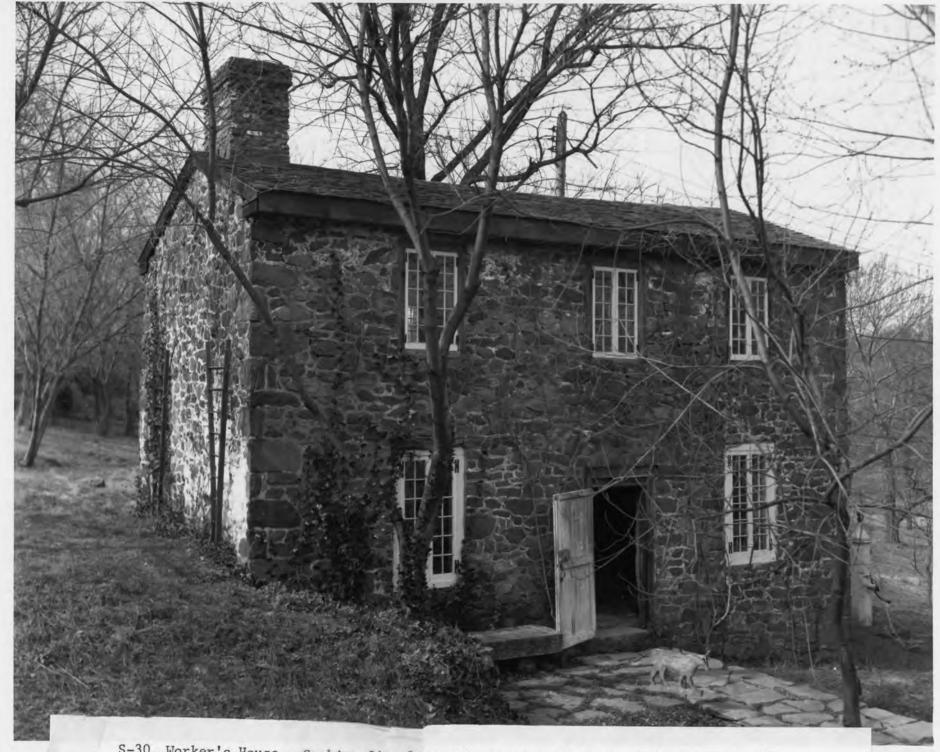
S-25 Engine House exterior



S-25 $\underline{\underline{\text{Engine House}}}$ interior restoration with antique boxbed slide value engine. $\underline{\text{Engine}}$ is run daily for visitors.



S-27. Rebel Shanty - Original walls dating from before the Civil War. The roof is an old (20th century) improper replacement. Gates to right are post-yard closing.



S-30. Worker's House - Cooking fireplace and use of small "man size" stones in the construction suggest much early 19th century fabric remains.



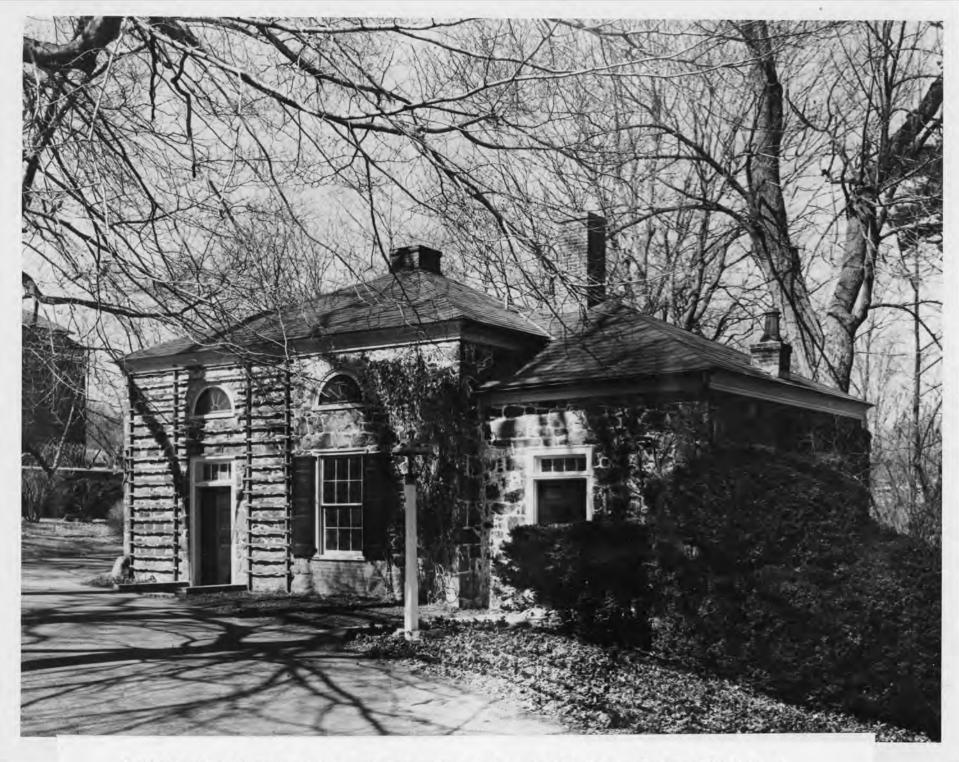
S-31. Workers' Dormitory foreground. Worker's house (S-30) at right. Two survivors of a village called "Upper Banks." Internal evidence indicates likelihood of early 19th century fabric.



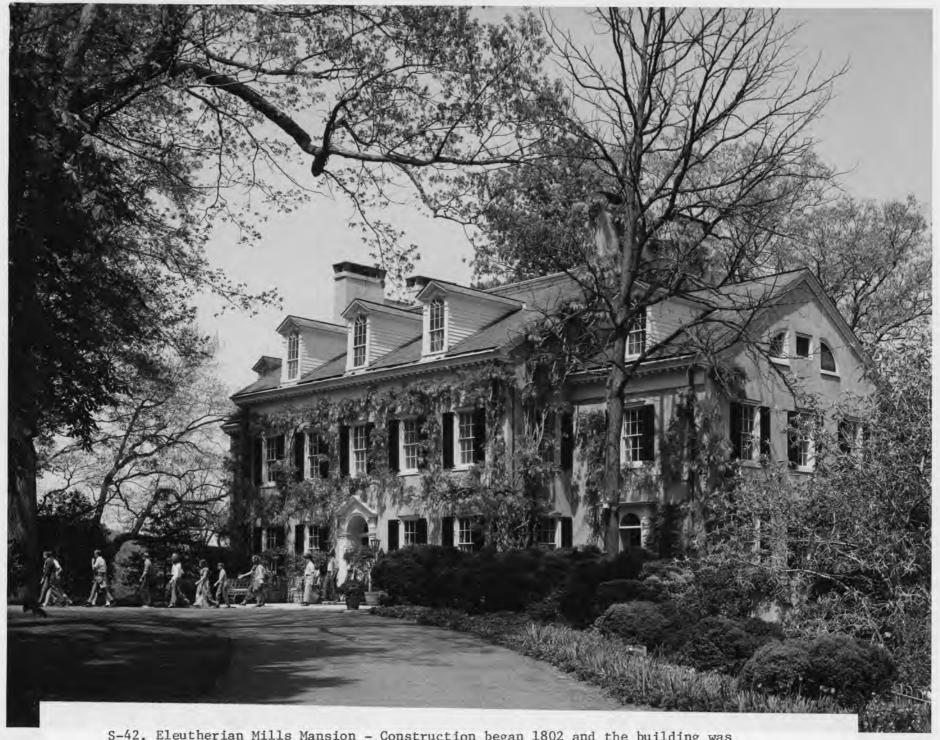
S-36. Charcoal House - Very rare industrial survival. The cylinders and charging holes still exist.



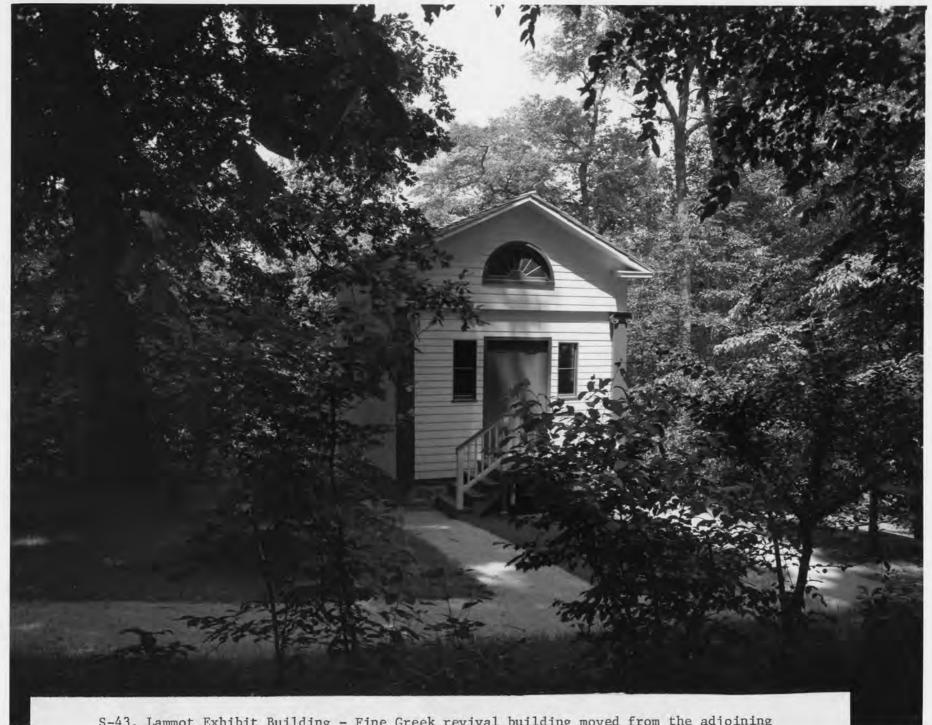
S-37. & S-38. Barn and Carriage House - The barn is virtually identical to its appearance in the sketches and late 19th century photographs. The carriage house was part of a three-building complex and originally had a second story which burned about 50 years ago.



S-40. First Office Building - The structure had several later additions which were removed by Mrs. Crowninshield.



S-42. Eleutherian Mills Mansion - Construction began 1802 and the building was occupied in 1803. The present form reflects the additions and modifications of five generations of the du Pont family.



S-43. Lammot Exhibit Building - Fine Greek revival building moved from the adjoining property. It is indigenous to the compapany property but not on its original foundation.



S-44. Soda House - Adaptively reused structure. It has a sympathetic addition in the rear to house and process manuscripts.

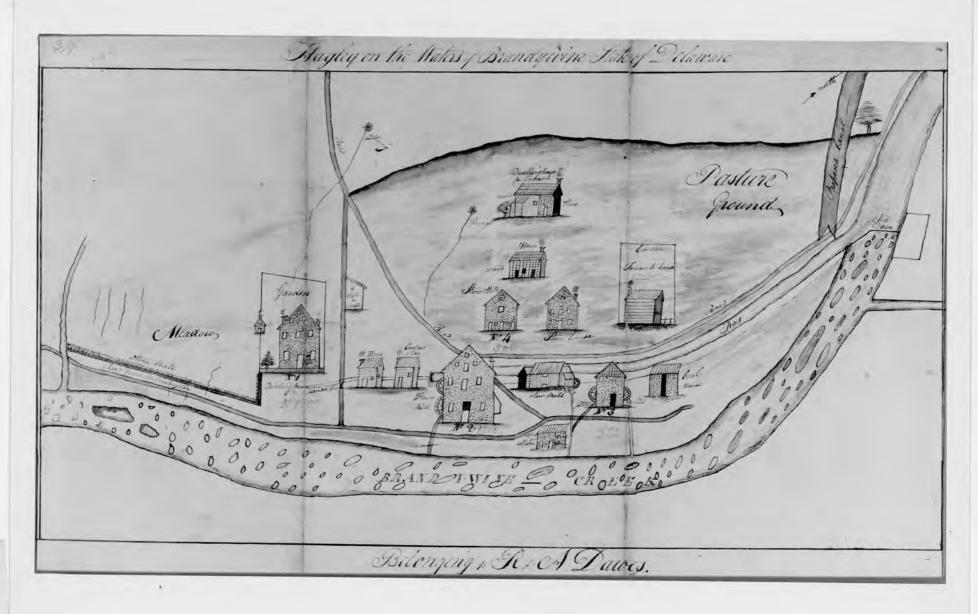


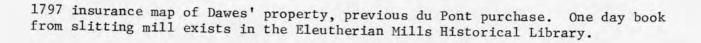


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