

United States Department of the Interior  
National Park Service

**NATIONAL REGISTER OF HISTORIC PLACES  
REGISTRATION FORM**

**1. Name of Property**

historic name Buchanan Furnace

other name/site number: N/A

**2. Location**

street & number: off PA 378 (N/A) not for publication

city, town: Licking Township (N/A) vicinity

state: PA code: PA county: Clarion code: 031 zip code: 16213

**3. Classification**

Ownership of Property: private

Category of Property: structure

Number of Resources within Property:

<u>Contributing</u>	<u>Noncontributing</u>	
<u>—</u>	<u>—</u>	buildings
<u>1</u>	<u>—</u>	sites
<u>1</u>	<u>—</u>	structures
<u>1</u>	<u>0</u>	objects
		TOTAL

Number of contributing resources previously listed in the  
National Register: 0

Name of related multiple property listing: Iron and Steel  
Resources in Pennsylvania 1716-1945

4. State/Federal Agency Certification

As the designated authority under the National Historic Preservation Act of 1986, as amended, I hereby certify that this X 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 X meets does not meet the National Register criteria. See continuation sheet.

Brent D. Glass 7/3/91  
Signature of certifying official Date  
Brent D. Glass Pennsylvania Historical & Museum Commission  
State or Federal agency and bureau

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

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 Keeper Date  
of action

6. Function or Use

Historic Functions  
10 industry

Subfunctions  
10A manufacturing facility

Current functions  
98 vacant/not in use

Subfunctions

7. Description

Architectural Classification

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

other: 99 iron furnace

Materials

foundation	<u>N/A</u>	roof	<u>N/A</u>
walls	<u>40 stone</u>	other	<u>N/A</u>

Describe present and historic appearance:

see continuation sheet

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

Criteria Considerations (Exceptions): N/A

Areas of Significance: 160 industry  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Period(s) of Significance: 1844-1858

Significant Dates: 1844

Years of Alterations: N/A

Significant Person(s): N/A

Cultural Affiliation: N/A

Architect/Builder: unknown

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

See continuation sheet

9. Major Bibliographical ReferencesX See continuation sheetPrevious 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 # \_\_\_\_\_

Primary location of additional data:

- State Historic Preservation Office
- Other state agency
- Federal agency
- Local government
- University
- Other - Specify Repository: \_\_\_\_\_

10. Geographical DataAcreage of property: less than 1 acre

UTM References: Knox

	<u>Zone</u>	<u>Easting</u>	<u>Northing</u>		<u>Zone</u>	<u>Easting</u>	<u>Northing</u>
A	17	620970	4554150	C			
B				D			

   see continuation sheetVerbal Boundary DescriptionX see continuation sheetBoundary JustificationX see continuation sheet11. Form Prepared Byname/title Diane B. Reed, Historic Preservation Specialistorganization PHMC/BHP date March 13, 1991street & number P.O. Box 1026 telephone (717)787-8045city or town Harrisburg state PA zip 17108

United States Department of the Interior  
National Park ServiceNational Register of Historic Places  
Continuation SheetSection number 7 Page 1Buchanan Furnace

Buchanan Furnace is located on a flat grassy open meadow on the north bank of the Clarion River, 1200' northwest of the bridge where PA 378 crosses the river. The furnace is 3/5 mile north of Callensburg, and 600' west of PA 378 at the end of a dirt track.

The furnace was a cold blast charcoal furnace with two tuyeres and a nine foot bosh. The south elevation of the furnace measures 33' wide at the base, and the east and west facades measure 30' at the base. The furnace is approximately 33' high. All four corners of the furnace are intact, and the stack shows good integrity. There has been noticeable deterioration at the top of the stack, with some of the stones having fallen. The tuyere arch is in poor condition, and the masonry above it has partially collapsed. The cast arch remains in good condition. There is a small rise on the north side of the furnace, where the charging ramp was most probably located. There are no other associated buildings or foundations.

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Buchanan Furnace is nominated under Criterion A for its significance in the area of industry. Buchanan Furnace is a representative example of the westward expansion of the iron industry and the development of ironmaking regions west of the Alleghenies. Clarion County had, at its peak, thirty one iron furnaces, the majority of which were built between 1840-1850. They supplied regional markets as well as Pittsburgh and its rolling mills. Buchanan is also significant under Criterion C for engineering, as the most intact iron furnace stack in Clarion County, and also demonstrates the craftsmanship of the mason.

Buchanan Furnace was built in 1844 during the rapid growth of the local iron industry, and was "blown out" for good in 1858. Its maximum production was 1200 tons a year. In 1850 the operators were S. F. Plummer and F.G. Creary (Crary) of Kittaning and Arnold Plummer of Franklin. By 1857, Crary had become the sole proprietor. However, by 1858 the furnace had been abandoned because of the declining economic climate, exacerbated by the exhaustion of the wood supply for making charcoal. Subsequently there has been little activity the site, with the exception of the construction of several vacation cottages in the vicinity.

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Buchanan Furnace

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Davis, A. J. History of Clarion County Pennsylvania. Syracuse:  
D. Mason & Co., 1887.

Thomas, William H. and Myron B. Sharp. A Guide to the Old Stone  
Blast Furnaces in Western Pennsylvania. Pittsburgh:  
Historical Society of Western Pennsylvania, 1966.

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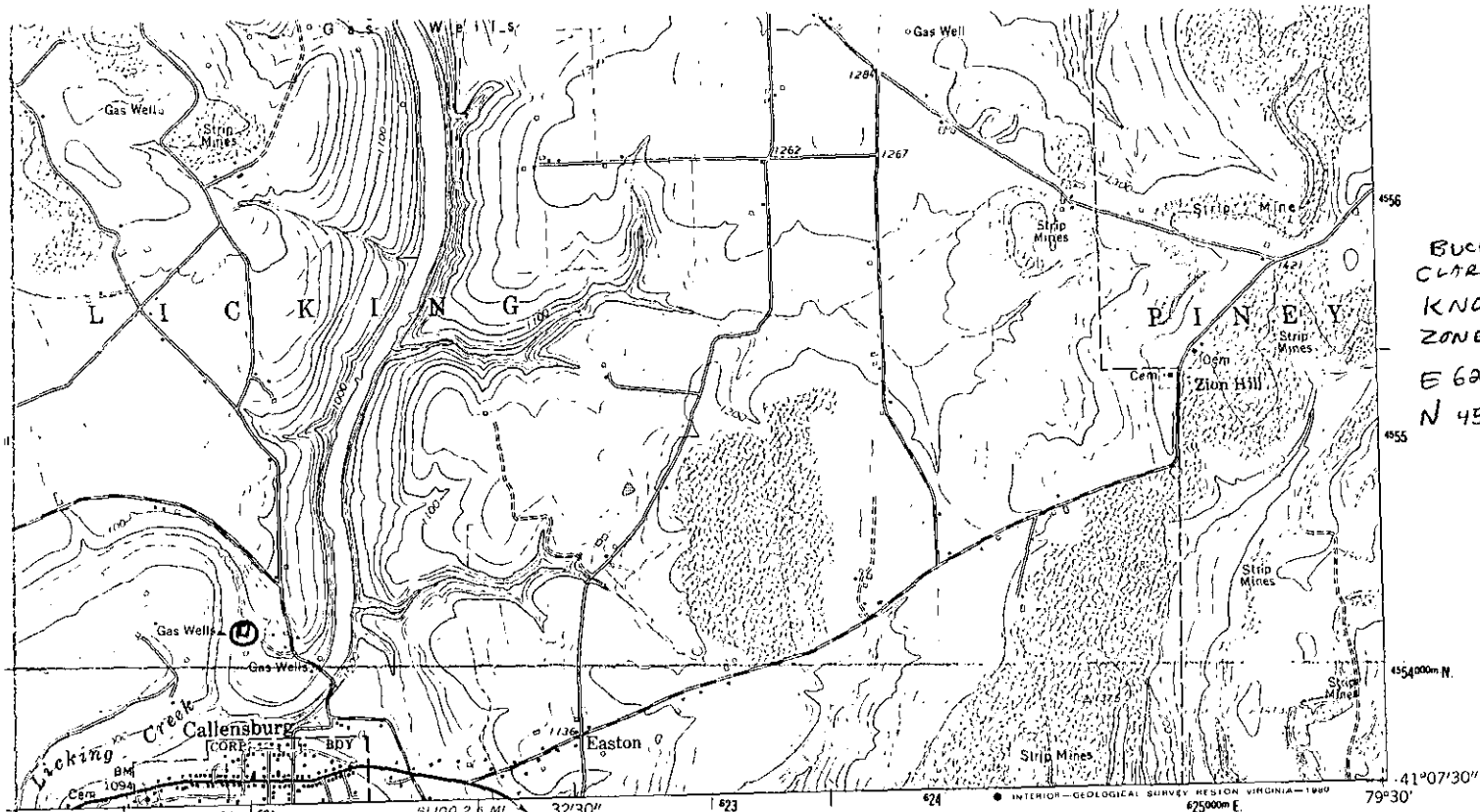
Buchanan Furnace

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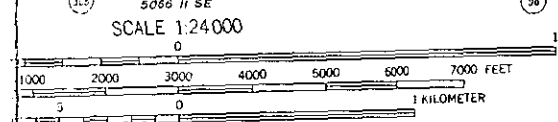
Verbal boundary description: The nominated property is one part of a tract of land of 4.06 acres recorded at the Clarion County Courthouse, Book 372, Page 254. The nominated section includes the furnace stack and 25' on all sides.

Boundary justification: Because there are summer cottages in the immediate vicinity of the furnace, and there are no other related structures or known archaeological sites, only the area immediately around the furnace is included in the boundary.

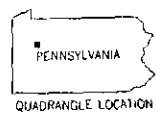




BUCHANAN FURNACE  
 CLARION COUNTY  
 KNOX  
 ZONE 17  
 E 620 970  
 N 4554 150



CONTOUR INTERVAL 20 FEET  
 NATIONAL GEODETIC VERTICAL DATUM OF 1929



ROAD CLASSIFICATION

- Heavy-duty —————
- Medium-duty ————
- Light-duty —————
- Unimproved dirt - - - - -
- ( ) State Route
- Interstate Route

KNOX, PA.

N4107.5—W7930/7.5  
 PHOTOINSPECTED 1977  
 1963  
 PHOTOREVISED 1972  
 AMS 5066 II NE—SERIES V831

COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS  
 U.S. GEOLOGICAL SURVEY, RESTON, VIRGINIA 22092  
 TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

Revisions shown in purple compiled in cooperation with  
 State of Pennsylvania agencies from aerial photographs  
 taken 1972. This information not field checked  
 Map photoinspected 1977  
 No major culture or drainage changes observed

(SLIGO)  
 SLIGO SW