

FILE COPY

Form 10-300  
(Dec. 1968)

UNITED STATES DEPARTMENT OF THE INTERIOR  
NATIONAL PARK SERVICE

NATIONAL REGISTER OF HISTORIC PLACES  
INVENTORY - NOMINATION FORM

(Type all entries - complete applicable sections)

STATE: Missouri	
COUNTY: Crawford	
FOR NPS USE ONLY	
ENTRY NUMBER	DATE

1. NAME

COMMON:  
Scotia Iron Furnace Stack

AND/OR HISTORIC:  
Scotia Iron Company

2. LOCATION

STREET AND NUMBER:  
6.3 miles southeast of Leasburg on County Highway H

CITY OR TOWN:  
S<sup>1</sup>/<sub>2</sub>, NE<sup>1</sup>/<sub>4</sub>; N<sup>1</sup>/<sub>2</sub>, SE<sup>1</sup>/<sub>4</sub>, Section 1 - Township 38N - Range 3W

STATE: Missouri CODE: 65535 COUNTY: Crawford CODE: 055

3. CLASSIFICATION

CATEGORY (Check One)	OWNERSHIP	STATUS	ACCESSIBLE TO THE PUBLIC
District <input type="checkbox"/> Building <input type="checkbox"/>	Public <input checked="" type="checkbox"/>	Occupied <input type="checkbox"/>	Yes: <input type="checkbox"/>
Site <input type="checkbox"/> Structure <input checked="" type="checkbox"/>	Private <input type="checkbox"/>	Unoccupied <input checked="" type="checkbox"/>	Restricted <input checked="" type="checkbox"/>
Object <input type="checkbox"/>	Both <input type="checkbox"/>	Preservation work in progress <input type="checkbox"/>	Unrestricted <input type="checkbox"/>
PRESENT USE (Check One or More as Appropriate)			
Agricultural <input type="checkbox"/>	Government <input type="checkbox"/>	Park <input type="checkbox"/>	Transportation <input type="checkbox"/> Comments <input checked="" type="checkbox"/>
Commercial <input type="checkbox"/>	Industrial <input type="checkbox"/>	Private Residence <input type="checkbox"/>	Other (Specify) <input type="checkbox"/> within _____
Educational <input type="checkbox"/>	Military <input type="checkbox"/>	Religious <input type="checkbox"/>	_____ Huzzah State
Entertainment <input type="checkbox"/>	Museum <input type="checkbox"/>	Scientific <input type="checkbox"/>	_____ Forest

4. OWNER OF PROPERTY

OWNERS NAME:  
State of Missouri

STREET AND NUMBER:  
Missouri Department of Conservation  
North Ten Mile Drive

CITY OR TOWN: Jefferson City STATE: Missouri CODE: 65101 2h

5. LOCATION OF LEGAL DESCRIPTION

COURTHOUSE, REGISTRY OF DEEDS, ETC.:  
Office of Recorder of Deeds, Crawford County Courthouse

STREET AND NUMBER:

CITY OR TOWN: Steelville STATE: Missouri CODE: 65565 2h

APPROXIMATE ACREAGE OF NOMINATED PROPERTY: 90

6. REPRESENTATION IN EXISTING SURVEYS

TITLE OF SURVEY:  
Missouri Historic Sites Catalogue

DATE OF SURVEY: 1963 Federal  State  County  Local

DEPOSITORY FOR SURVEY RECORDS:  
State Historical Society of Missouri

STREET AND NUMBER:  
Corner, Hitt and Lowry streets

CITY OR TOWN: Columbia STATE: Missouri CODE: 65201 2h

SEE INSTRUCTIONS

STATE: Missouri  
COUNTY: Crawford  
ENTRY NUMBER: 0

NATIONAL REGISTER OF HISTORIC PLACES  
INVENTORY - NOMINATION FORM

(Continuation Sheet)

STATE	
Missouri	
COUNTY	
Crawford	
FOR NPS USE ONLY	
ENTRY NUMBER	DATE

(Number all entries)

SCOTIA IRON FURNACE STACK

6. Missouri State Historical Survey (state)

1968

Missouri State Park Board

P.O. Box 176

1204 Jefferson Building

Jefferson City, Missouri 65101

Code: 24

## 7. DESCRIPTION

CONDITION	(Check One)					
	Excellent <input type="checkbox"/>	Good <input type="checkbox"/>	Fair <input checked="" type="checkbox"/>	Deteriorated <input type="checkbox"/>	Ruins <input type="checkbox"/>	Unexposed <input type="checkbox"/>
INTEGRITY	(Check One)			(Check One)		
	Altered <input type="checkbox"/>			Unaltered <input checked="" type="checkbox"/>		
			Moved <input type="checkbox"/>			Original Site <input checked="" type="checkbox"/>

DESCRIBE THE PRESENT AND ORIGINAL (if known) PHYSICAL APPEARANCE

It is believed that Scotia Iron Works, at the height of its operation (1870-1880), consisted of one engine house, a boiler house, a charcoal house, a casting house and a weighing house. (Mr. Robert L. Elgin, Box 365, St. James, Missouri. Interviewed November 11, 1968.)

Presently only the furnace stack is standing. Stack is constructed of native limestone blocks, is 35 feet wide at the base, and approximately 140 feet high. There are two openings in the base of the stack, one on the south (front) side, and one on the west side. A hot blast fired the furnace through the west side opening, commonly called the "Tuyere Arch". The molten iron flowed from the front (south) opening, "casting arch", of the stack to the casting bed. The furnace stack stands at the foot of a ridge, north and east of the structure. Stone foundations of presently undetermined buildings are located northeast of the furnace stack. Slag heap located east of the furnace stack.

Furnace is in fair condition. Stone blocks in the south and east walls are crumbling. The base of the furnace will be within the flood control pool area of the proposed Meramec Park Reservoir. (See attached map)

The ore pit, Scotia Mine No. 1, is located 1,000 feet northwest of the furnace stack. A dry creek bed exists between the stack and the ore pit. Ore pit is 300 feet long, 200 feet wide, and 20-50 feet deep. Access to the pit is on the northeast side.

SEE INSTRUCTIONS

**B. SIGNIFICANCE**

PERIOD (Check One or More as Appropriate)

- Pre-Columbian       16th Century       18th Century       20th Century   
 15th Century       17th Century       19th Century

SPECIFIC DATE(S) (If Applicable and Known) **1870-1880**

AREAS OF SIGNIFICANCE (Check One or More as Appropriate)

- |                |              |                                     |                     |                          |                 |                          |
|----------------|--------------|-------------------------------------|---------------------|--------------------------|-----------------|--------------------------|
| Aboriginal     | Education    | <input type="checkbox"/>            | Political           | <input type="checkbox"/> | Urban Planning  | <input type="checkbox"/> |
| Prehistoric    | Engineering  | <input type="checkbox"/>            | Religion/Philosophy | <input type="checkbox"/> | Other (Specify) | <input type="checkbox"/> |
| Historic       | Industry     | <input checked="" type="checkbox"/> | Science             | <input type="checkbox"/> | _____           |                          |
| Agriculture    | Invention    | <input type="checkbox"/>            | Sculpture           | <input type="checkbox"/> | _____           |                          |
| Art            | Landscape    | <input type="checkbox"/>            | Social/Humanitarian | <input type="checkbox"/> | _____           |                          |
| Commerce       | Architecture | <input type="checkbox"/>            | Theater             | <input type="checkbox"/> | _____           |                          |
| Communications | Literature   | <input type="checkbox"/>            | Transportation      | <input type="checkbox"/> | _____           |                          |
| Conservation   | Military     | <input type="checkbox"/>            |                     |                          | _____           |                          |
|                | Music        | <input type="checkbox"/>            |                     |                          | _____           |                          |

STATEMENT OF SIGNIFICANCE (Include Personages, Dates, Events, Etc.)

The Scotia Iron Furnace Stack is important remaining evidence of the nineteenth century iron industry in Missouri.

The Scotia Iron Furnace was built in 1870 by John G. Scott, a pioneer in iron production in Missouri, in association with Thomas Howard, Robert Anderson, and Anvil James. Anvil James was the son of Thomas James who founded Maramec Iron Works in Phelps County.

In its operative years, the Scotia Iron Works was located north of Scotia, Missouri. Three hundred of the town's 500 people were employed by the Scotia Iron Company. (Mines, Metals and Arts, October 8, 1874, p. 245.) The furnace was steam powered and therefore not dependent upon an abundant water supply. The furnace was located near the ore, timber, and limestone supplies making possible a less costly and more efficient operation. The average capacity of the furnace was 20 tons of pig iron per day. (Rolla Herald, January 12, 1871.)

The pig iron produced by the Scotia Furnace was hauled six miles to Leasburg and then shipped by rail to St. Louis for the manufacture of iron products. Most of the Scotia iron was used in the manufacture of agricultural equipment and water pipes. (Mines, Metals and Arts, October 8, 1874, p. 245.)

In 1880 the Scotia Iron Works machinery was moved to Dent County because of depleted ore supplies and because of disagreement among the owners. The machinery was used to build a similar hot blast furnace appropriately called the Nova Scotia Furnace. This smelter was located in an area thickly strewn with boulders of specular hematite. (Grave, Pyrites Deposites of Missouri, p. 305.) In 1888 the furnace equipment was moved to Paducah, Kentucky.

SEE INSTRUCTIONS

**9. MAJOR BIBLIOGRAPHICAL REFERENCES**

1. Crane, G.W. The Iron Ores of Missouri. Missouri Bureau of Geology and Mines, Vol. X, Second Series. (Jefferson City: The Hugh Stephens Printing Co., 1912) p. 219.
2. Grawe, Oliver R. Pyrites Deposites of Missouri. Missouri Geological Survey and Water Resources, Vol. XXX, Second Series. (Jefferson City: Mid-state Printing Co., 1945) pp. 292 and 305.

**10. GEOGRAPHICAL DATA**

LATITUDE AND LONGITUDE COORDINATES DEFINING A RECTANGLE LOCATING THE PROPERTY			O R	LATITUDE AND LONGITUDE COORDINATES DEFINING THE CENTER POINT OF A PROPERTY OF LESS THAN ONE ACRE		
CORNER	LATITUDE			LATITUDE		LONGITUDE
	Degrees	Minutes	Seconds	Degrees	Minutes	Seconds
NW	38°	02'	24"	91°	11'	55"
NE	38°	02'	24"	91°	11'	38"
SE	38°	02'	06"	91°	11'	38"
SW	32°	02'	06"	91°	11'	55"

LIST ALL STATES AND COUNTIES FOR PROPERTIES OVERLAPPING STATE OR COUNTY BOUNDARIES

STATE:	CODE	COUNTY	CODE
STATE:	CODE	COUNTY:	CODE
STATE:	CODE	COUNTY:	CODE
STATE:	CODE	COUNTY:	CODE

**11. FORM PREPARED BY**

NAME AND TITLE: Martha L. Kusiak, Research Historian

ORGANIZATION Missouri State Park Board DATE April 16, 1969  
State Historical Survey and Planning Office

STREET AND NUMBER: P.O. Box 176, 1201 Jefferson Building

CITY OR TOWN: Jefferson City STATE Missouri CODE 24  
65101

**12. STATE LIAISON OFFICER CERTIFICATION**

As the designated State Liaison Officer for the National Historic Preservation Act of 1966 (Public Law 89-665), I hereby nominate this property for inclusion in the National Register and certify that it has been evaluated according to the criteria and procedures set forth by the National Park Service. The recommended level of significance of this nomination is:

National  State  Local

Name Joseph Jaeger, Jr.

Title Director, Missouri State Park Board, and Missouri State Liaison Officer

Date \_\_\_\_\_

**NATIONAL REGISTER VERIFICATION**

I hereby certify that this property is included in the National Register.

Chief, Office of Archeology and Historic Preservation

Date \_\_\_\_\_

ATTEST:

Keeper of The National Register

Date \_\_\_\_\_

SEE INSTRUCTIONS

NATIONAL REGISTER OF HISTORIC PLACES  
INVENTORY - NOMINATION FORM

(Continuation Sheet)

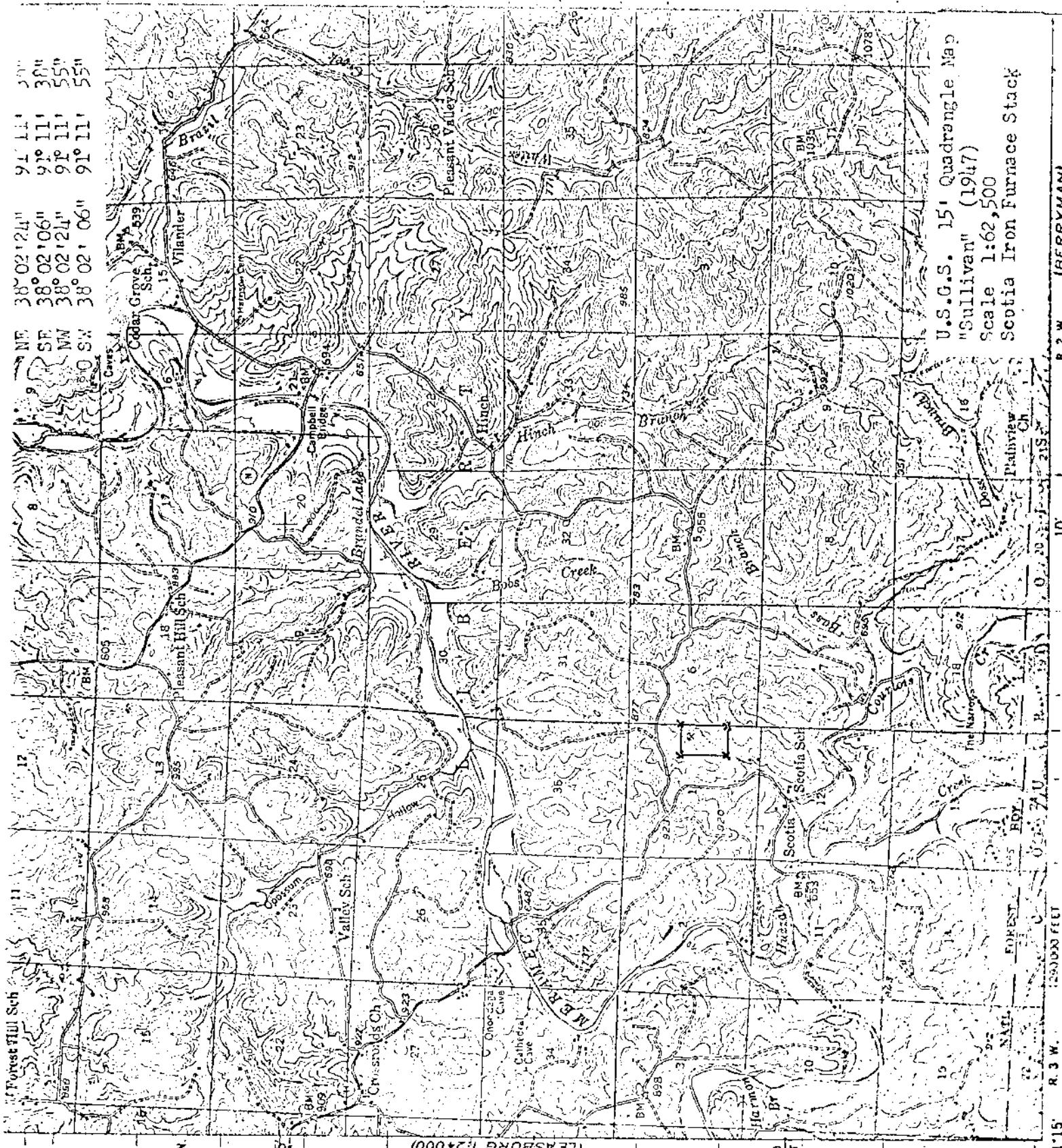
STATE	
Missouri	
COUNTY	
Crawford	
FOR NPS USE ONLY	
ENTRY NUMBER	DATE

(Number all entries)

SCOTIA IRON FURNACE STACK

9.

3. "Iron Works Outside of St. Louis." Mines, Metals and Arts, a weekly journal devoted to Mine, Metallurgy, Manufactures, Technics, Engineering, Chemistry, Fine Arts, and Markets, Vol. II, No. 5. (St. Louis, October 8, 1874) p. 243-245.
4. "Scotia Iron Company." Rolla Herald (w). January 12, 1871.
5. Mr. Robert L. Elgin, Box 365, St. James, Missouri. Former Curator of the James Foundation, and currently partner in R. L. Elgin and Associates, Engineers and Surveyors. Interviewed by Martha L. Kusiak, Missouri State Historical Survey staff member, on November 17, 1968.



Forest Hill Sch  
 11  
 17  
 15  
 18  
 16  
 15  
 9  
 8

38° 02' 24" NE  
 38° 02' 06" SE  
 38° 02' 24" NW  
 38° 02' 06" SW

T. 39 N.  
 T. 38 N.

3 M. TO U.S. 68  
 LEASBURG 2.9 MI.

(LEASBURG 1:24,000)

800,000 FEET

5 1/2°

38° 00' 31' 15"

R. 3 W.

R. 2 W.

10  
 0 20 30 40 50 60 70 80 90 100  
 R. 2 W. (BERRYMAN)

U.S.G.S. 15' Quadrangle Map  
 "Sullivan" (1947)  
 Scale 1:62,500  
 Scotia Iron Furnace Stack

Form 10-301  
(Dec. 1968)

UNITED STATES DEPARTMENT OF THE INTERIOR  
NATIONAL PARK SERVICE

### NATIONAL REGISTER OF HISTORIC PLACES

#### PROPERTY MAP FORM

*(Type all entries - attach to or enclose with map)*

STATE	Missouri
COUNTY	Crawford
FOR NPS USE ONLY	
ENTRY NUMBER	
DATE	

1. NAME	
COMMON:	Scotia Iron Furnace Stack
AND/OR HISTORIC:	Scotia Iron Company
2. LOCATION	
STREET AND NUMBER:	
S $\frac{1}{2}$ , NE $\frac{1}{4}$ ; N $\frac{1}{2}$ , SE $\frac{1}{4}$ , Section 1 - Township 38N - Range 3W	
CITY OR TOWN:	
6.3 miles southeast of Leasburg on County Highway H	
STATE:	Missouri 65535
CODE	24
COUNTY:	Crawford
CODE	055
3. MAP REFERENCE	
SOURCE:	
U.S.G.S. 15' quadrangle Sullivan	
SCALE:	1:62,500
DATE:	1947
4. REQUIREMENTS	

TO BE INCLUDED ON ALL MAPS

1. Property boundaries where required.
2. North arrow.
3. Latitude and longitude reference.

S E E I N S T R U C T I O N S

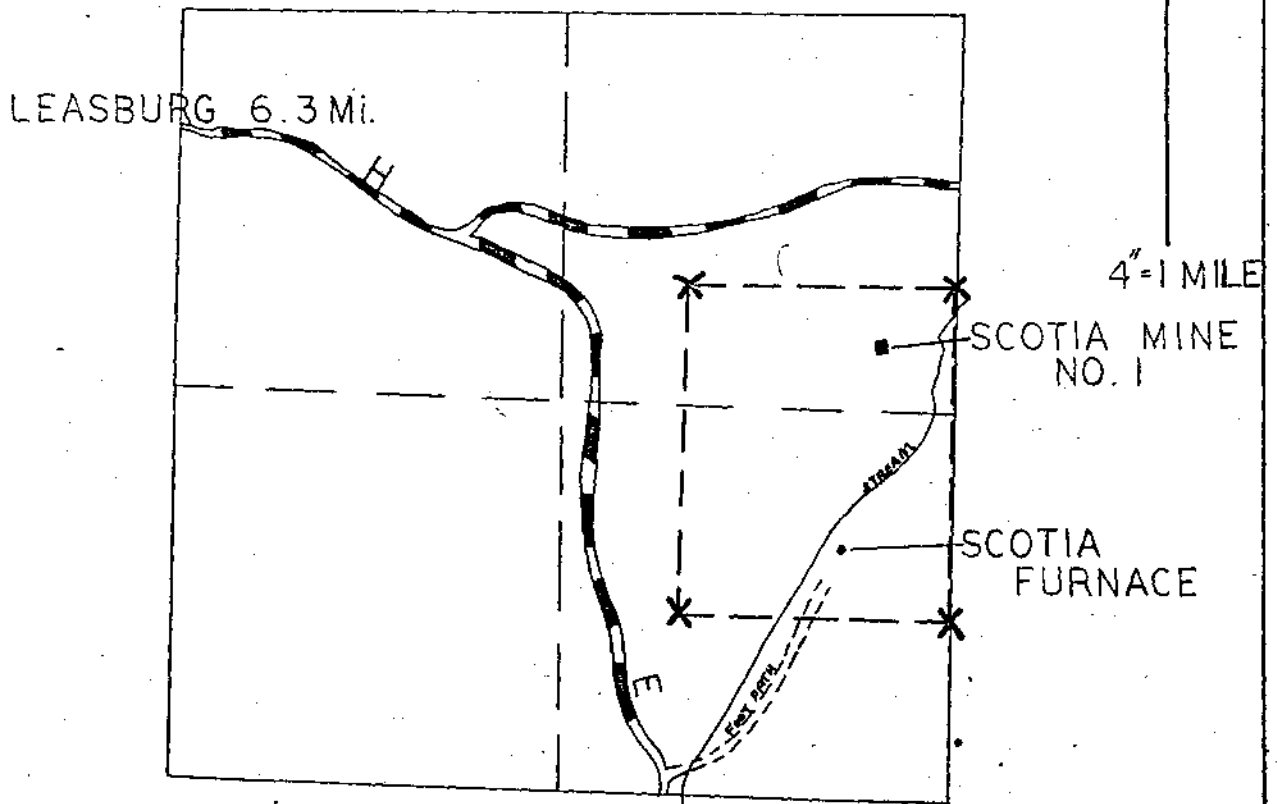
NATIONAL REGISTER OF HISTORIC PLACES  
INVENTORY - NOMINATION FORM

(Continuation Sheet)

STATE	
Missouri	
COUNTY	
Crawford	
FOR NPS USE ONLY	
ENTRY NUMBER	DATE

(Number all entries)

# SCOTIA IRON FURNACE STACK



SOURCE: R. LELGIN  
MARCH 29, 1961

SECTION 1  
QUARTER SECTION LINES  
HISTORIC DISTRICT

M&HS, 4-7-69  
Steven Teczar

Form 10-301  
(Dec. 1968)

UNITED STATES DEPARTMENT OF THE INTERIOR  
NATIONAL PARK SERVICE

**NATIONAL REGISTER OF HISTORIC PLACES  
PROPERTY MAP FORM**

(Type all entries - attach to or enclose with map)

1. NAME  
COMMON: Scotia Iron Furnace Stack  
AND/OR HISTORIC: Scotia Iron Company

2. LOCATION  
STREET AND NUMBER:  
CITY OR TOWN: S<sup>2</sup>, NE<sup>1</sup>, N<sup>2</sup>, SE<sup>1</sup>, Section 1 - Township 38N - Range 3W  
STATE: Missouri

3. MAP REFERENCE  
SOURCE: 6.3 miles southeast of Leasburg on County Highway H  
STATE: Missouri CODE COUNTY: Crawford CODE 055

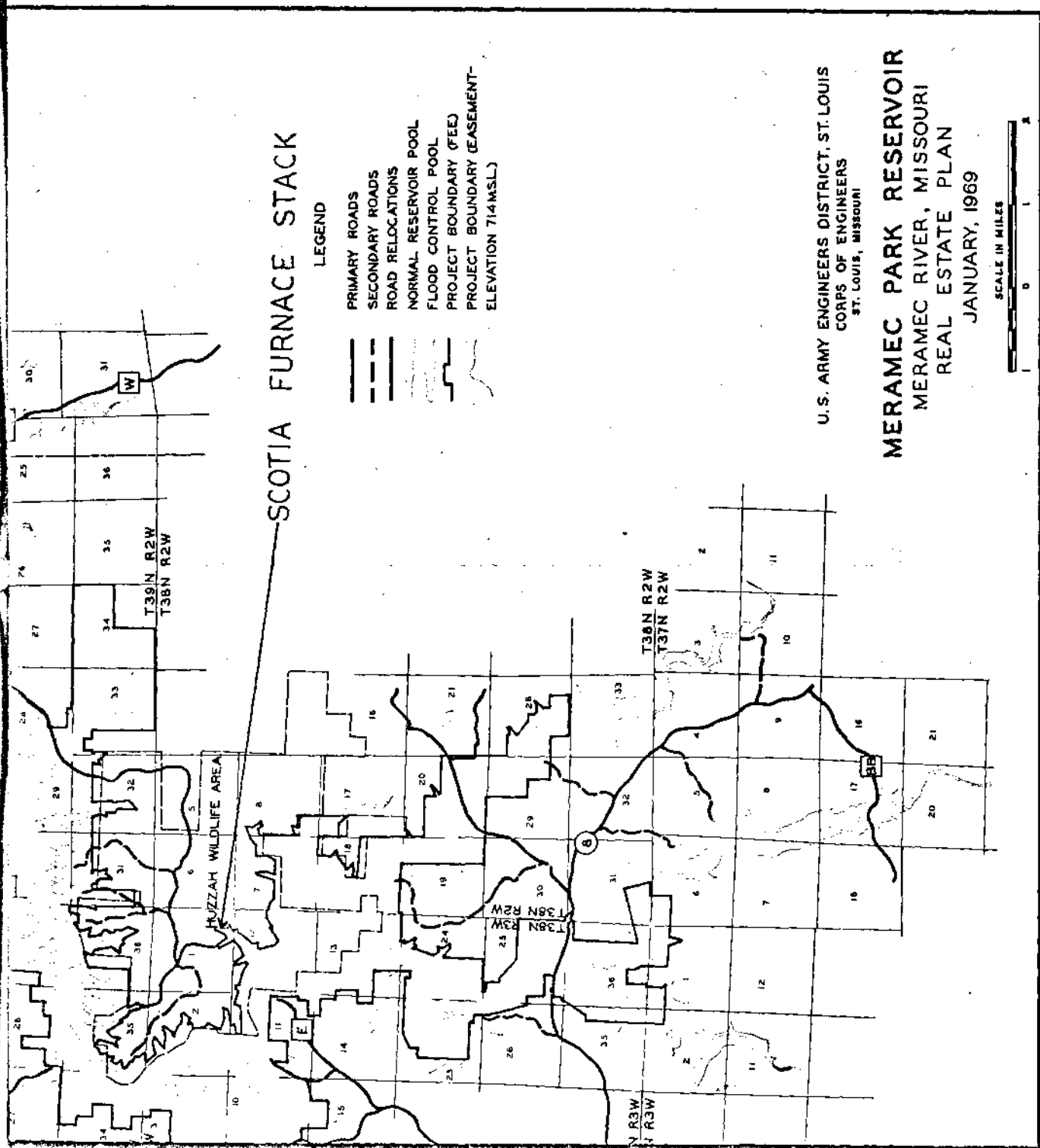
4. REQUIREMENTS  
DATE: March 29, 1961  
SCALE: 1" = 1 mile  
Based on scale drawing by Robert L. Elgin, Box 365, St. James, Mo. 65559

SEE INSTRUCTIONS

TO BE INCLUDED ON ALL MAPS

1. Property boundaries where required.
2. North arrow.
3. Latitude and longitude reference.

STATE	MISSOURI
COUNTY	Crawford
FOR NPS USE ONLY	
ENTRY NUMBER	DATE



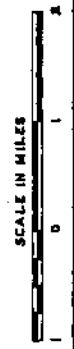
SCOTIA FURNACE STACK

LEGEND

- PRIMARY ROADS
- SECONDARY ROADS
- ROAD RELOCATIONS
- NORMAL RESERVOIR POOL
- FLOOD CONTROL POOL
- PROJECT BOUNDARY (FEET)
- PROJECT BOUNDARY (EASEMENT-ELEVATION 714MSL)

U.S. ARMY ENGINEERS DISTRICT, ST. LOUIS  
CORPS OF ENGINEERS  
ST. LOUIS, MISSOURI

**MERAMEC PARK RESERVOIR**  
MERAMEC RIVER, MISSOURI  
REAL ESTATE PLAN  
JANUARY, 1969



Form 10-301  
(Dec. 1968)

UNITED STATES DEPARTMENT OF THE INTERIOR  
NATIONAL PARK SERVICE

**NATIONAL REGISTER OF HISTORIC PLACES  
PROPERTY MAP FORM**

(Type all entries - attach to or enclose with map)

STATE	Missouri
COUNTY	Crawford
FOR NPS USE ONLY	
ENTRY NUMBER	DATE

**1. NAME**

COMMON: Scotia Iron Furnace Stack

AND/OR HISTORIC: Scotia Iron Company

**2. LOCATION**

STREET AND NUMBER:

S $\frac{1}{2}$ , NE $\frac{1}{4}$ ; N $\frac{1}{2}$ , SE $\frac{1}{4}$ , Section 1 - Township 38N - Range 3W

CITY OR TOWN:

6.3 miles southeast of Leasburg on County Highway H

STATE:

Missouri 65535

CODE COUNTY:

24 Crawford

CODE

055

**3. MAP REFERENCE**

SOURCE:

Meramec Park Reservoir, Meramec River, Missouri Real Estate Plan

SCALE:  $\frac{1}{2}$ " = 1 mile

DATE: January 1969

**4. REQUIREMENTS**

TO BE INCLUDED ON ALL MAPS

1. Property boundaries where required.
2. North arrow.
3. Latitude and longitude reference.

SEE INSTRUCTIONS

SUPPLIES

156

8.8

SCOTLAND IRON FURNACE STACK

COUNTRY:

LOCATION:

OWNER  
ADDRESS:

DATE APPROVED BY A.C.:

DATE SENT TO JEFF. CITY:

DATE SENT TO D.C.:

DATE OF REC. IN D.C.:

DATE PLACED ON NATIONAL REGISTER:

DATE AWARDED CERTIFICATE  
(AND PRESENTOR):

DATE FILE REVIEWED:

Scotland

6 1/2 mi. SE of Leaning, Mo. at Co. Hwy

State of Missouri, Department of Conservation,  
Jefferson City, Missouri 65201

10-26-68

05-01-69

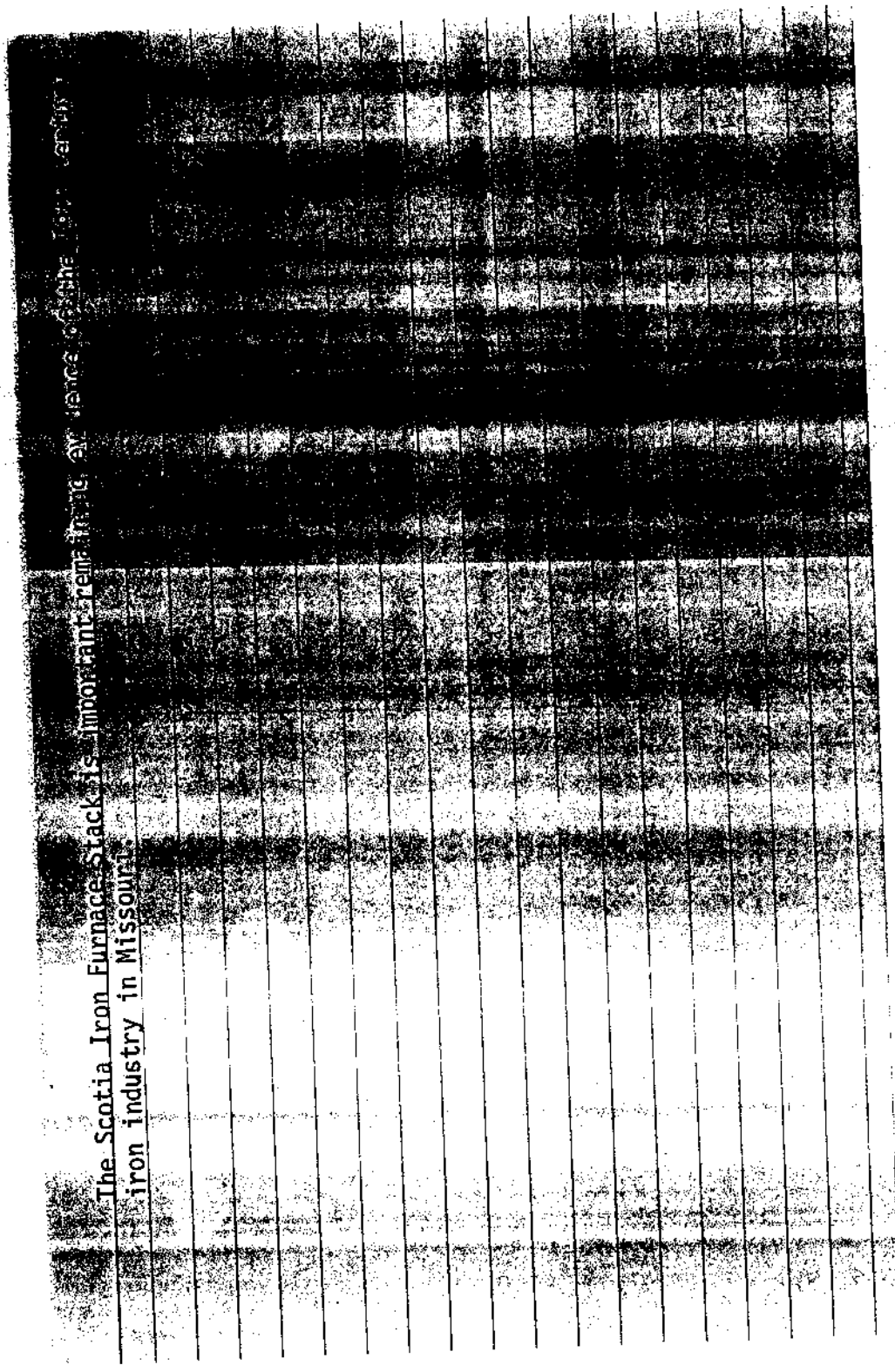
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05-06-69

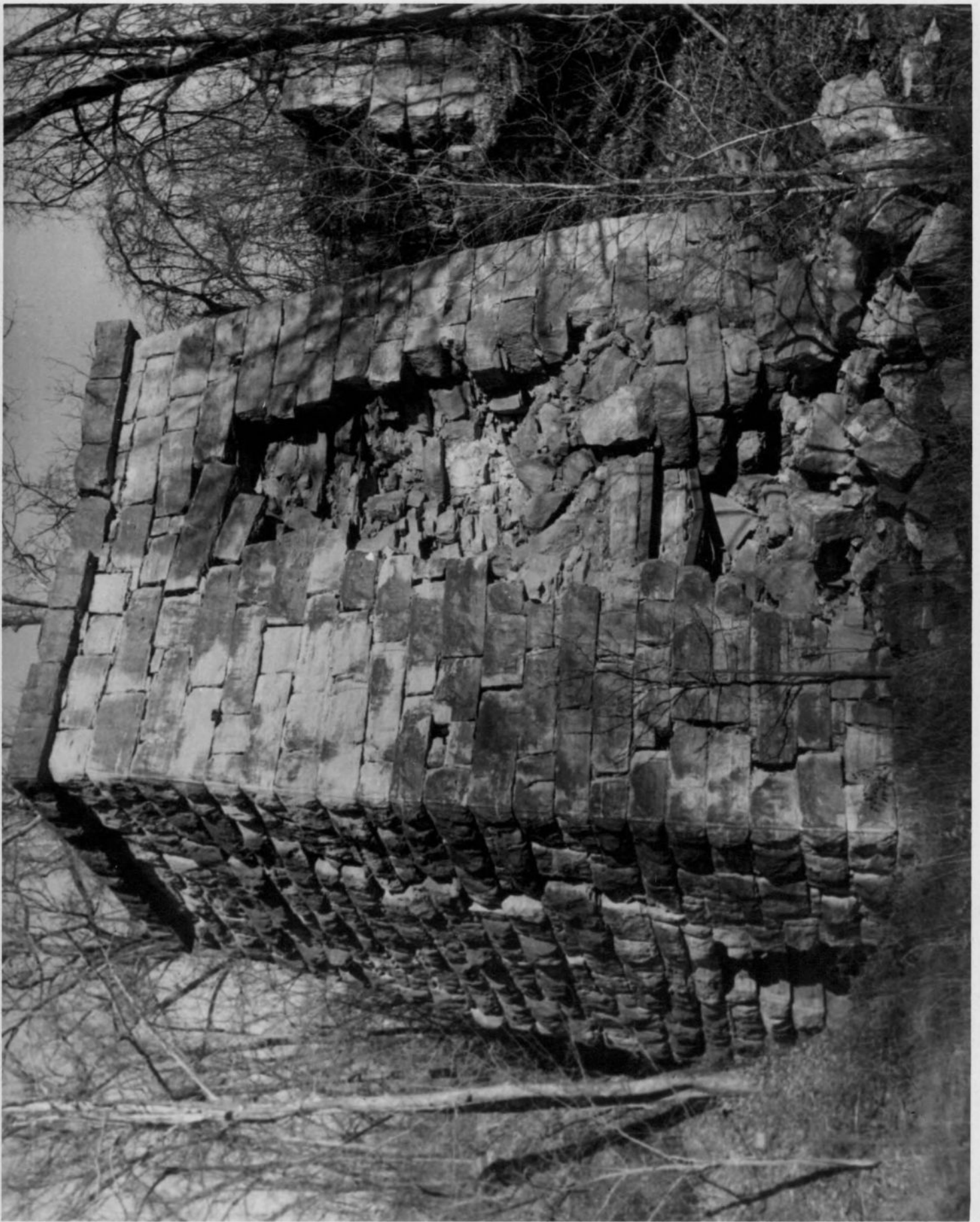
05-21-69

Advance of the 19th Century

The Scotia Iron Furnace Stack is important remaining iron industry in Missouri



Name of Site: SCOTIA IRON FURNACE STACK  
Site Number: 24-055-7380-K3W-S1-1H  
Photographer: Robert L. Elom  
Date of Photo: 3/15/61  
View of Photo: Looking North East  
U.S. Site: \_\_\_\_\_



Name of Site: SCOTIA IRON FURNACE STACK  
Site Number 24-055-738N-R3W-S1-1H  
Photographer: ROBERT ELGIN  
Date of Photo: CA. 1959  
View of Photo: LOOKING EAST - side view  
Neg. Size 3x5 - STEVE BLOCH REPRINT

