Smithsonian Institution Archives

William F. Foshag Papers, 1923-1965 and undated

Finding aid prepared by Smithsonian Institution Archives
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Collection Overview

Repository: Smithsonian Institution Archives, Washington, D.C., osiaref@si.edu
Title: William F. Foshag Papers
Identifier: Record Unit 7281
Date: 1923-1965 and undated
Extent: 8.59 cu. ft. (14 document boxes) (1 16x20 box) (1 3x5 box) (2 5x8 boxes) (1 oversize folder)
Creator:: Foshag, William F. (William Frederick), 1894-1956
Language: Language of Materials: English

Administrative Information

Preferred Citation
Smithsonian Institution Archives, Record Unit 7281, William F. Foshag Papers

Historical Note

William F. Foshag (1894-1956) joined the United States National Museum's Division of Mineralogy and Petrology as an assistant curator in 1919. From 1929 to 1941, he served as curator of the Division of Physical and Chemical Geology (Systematic and Applied) and from 1929 to 1948 was also curator of the Division of Mineralogy and Petrology. From 1948 to 1956, Foshag was head curator of the Department of Geology and acting curator of the Division of Mineralogy and Petrology.

Foshag's research was primarily devoted to the study of the geology and mineralogy of Mexico. Between 1926 and 1941, Foshag made several collecting trips to Mexico under the auspices of the Smithsonian's Roebling Fund. While serving as a representative of the United States Geological Survey in its cooperative work with the Mexican government, Foshag was able to study the eruption of the Paricutin Volcano in 1943. He made subsequent visits to Paricutin in 1944 and 1945 to observe the volcano. In 1946, he went to Japan for the United States government to supervise the grading, classifying, and appraising of diamonds captured from the Japanese during World War II. In 1949, Foshag was commissioned by the Guatemalan government to survey ancient jade objects from Central America.

Introduction

This finding aid was digitized with funds generously provided by the Smithsonian Institution Women's Committee.
Descriptive Entry

This collection consists mostly of materials documenting Foshag's research on Paricutin Volcano. Included are field notes recorded by Foshag, as well as notes and observations made by Jenaro Gonzalez-Reyna and Celedonia Gutiérrez; photographs, color slides, and glass plate negatives documenting the birth and subsequent activity of the volcano; research notes mostly concerning the analysis of lava and other materials erupted from Paricutin; manuscripts, reports, reprints, and publications concerning Paricutin and volcanology; and maps of Mexico, particularly the Paricutin region. Also included in the collection is general correspondence of Foshag, 1923, 1942-1956, including letters concerning his study of Paricutin Volcano, his survey of Central American jade objects, and photographs taken on several of Foshag's mineral collecting trips to Mexico, 1926-1934.

Foshag transferred a collection of 151 photographic prints and corresponding negatives from his study of Paricutin Volcano to the National Archives in 1951 (NARS Accession Inventory No. 451-111).

Names and Subject Terms

This collection is indexed in the online catalog of the Smithsonian Institution under the following terms:

Subjects:
- Geology
- Mineralogy

Types of Materials:
- Black-and-white photographs
- Field notes
- Manuscripts
- Maps

Names:
- Foshag, William F. (William Frederick), 1894-1956
- Geological Survey (U.S.)
- Gonzalez-Reyna, Jenaro, 1905-
- Gutiérrez, Celedonio, 1908-
- John A. Roebling Solar Research Fund
- United States National Museum. Department of Geology
- United States National Museum. Division of Mineralogy and Petrology
- United States National Museum. Division of Physical and Chemical Geology (Systematic and Applied)

Geographic Names:
- Paricutin (Volcano)
## Container Listing

### Series 1: GENERAL CORRESPONDENCE, 1923, 1942-1965. ARRANGED ALPHABETICALLY.

This series consists of incoming and outgoing correspondence of William F. Foshag, primarily during the years he served as head curator of the Department of Geology, United States National Museum (USNM). The correspondence concerns the identification and analysis of gems and minerals; Foshag's study of the Paricutin Volcano; his survey of Guatemalan jade objects; scientific societies and conferences; and the preparation of manuscripts for publication. Correspondence post-dating Foshag's death in 1956 is mostly letters of sympathy written to the Department of Geology, USNM.

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This series consists of an album of photographs documenting several of William F. Foshag's trips to Mexico to collect mineral specimens for the USNM. Included are photographs of Mexican cities and villages; Mexican people; mining sites; the field parties, including several of Foshag; and specimens collected. Most of the photographs are described, but undated.

Box 5

Folder 22 Photographs of Mexican field trips, 1926-1927, 1929, 1931, 1934


Image(s): Merle Crisler Foshag, wife of William F. Foshag, Curator in the Department of Geology and their son, William F. Foshag III (?). In Tepoztlán, Mexico. (Image no. SIA2010-3494)

Image(s): Merle Crisler Foshag and her husband William F. Foshag, Curator in the U.S. National Museum's Department of Geology. The two are standing amid flowers while on Foshag's scientific expedition to Tepoztlán, Mexico. (Image no. SIA2010-3495)

This series consists primarily of field notes concerning the eruption of Parícutin Volcano recorded by William F. Foshag. Also included are field notes on the volcano maintained by Jenaro Gonzalez and Celedonia Gutiérrez. The latter notes are written in Spanish.

Box 6


Box 6 of 18  Folder 2 Foshag, William F. Field notes, March 21-July 8, 1944.  Digital Content: Field notes documenting William F. Foshag's work, March 21-July 8, 1944 at Paricutin Volcano in Mexico.

Box 6 of 18  Folder 3 Foshag, William F. Field notes, November 28, 1943-December 8, 1944. Includes pencil drawings of Paricutin by Foshag.  Digital Content: Notebook documenting William F. Foshag's work at Paricutin Volcano and Mesa de Los Hornitos in Mexico, November 28, 1943-December 8, 1944.


Series 4: PHOTOGRAPHS, SLIDES, AND GLASS PLATE NEGATIVES OF PARÍCUTIN VOLCANO, 1943-1955 AND UNDATED.

This series provides extensive photographic documentation of the birth and subsequent activity of the Mexican volcano, Paricutín. Included are photographs taken by Foshag during his field work at Paricutín, as well as photographs taken by others and collected by Foshag. Most of the photographs are described and dated. Included are photographs of the volcano in eruption; pictures documenting the effect of Paricutín on local villages and people; aerial photographs of the volcano; and photographs of scientists, including Foshag, conducting field research at Paricutín.

Box 7

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Digital Content: Black and white photographs taken by William F. Foshag of Paricutin Volcano, June 10-14, 1943. Includes image numbers F33d-F49.


Digital Content: Black and white photographs taken by William F. Foshag of Paricutin Volcano, August 1-5, 1943. Includes image numbers F106B-F120.


Image(s): Fumarole of Paricutin (Image no. SIA2009-0856)

Image(s): Image of Paricutin, March 24, 1943, Photo A (Image no. SIA2009-0857)

Image(s): Image of Paricutin, March 24, 1943, Photo B (Image no. SIA2009-0858)

Image(s): Lava eruptions of Paricutin at night, June 9, 1943 (Image no. SIA2009-0859)

Image(s): Lava eruptions of Paricutin at night, July 29, 1943 (Image no. SIA2009-0860)

Image(s): Cabin on the north east side of Paricutin, June 12, 1943 (Image no. SIA2009-0861)

Image(s): Image of Paricutin volcano, May 24, 1943 (Image no. SIA2009-0862)

Image(s): Church at Paricutin, May 27, 1943 (Image no. SIA2009-0863)

Image(s): Church at Paricutin, July 31, 1943 (Image no. SIA2009-0864)
Image(s): Image of Cross near Paricutin, May 27, 1943 (Image no. SIA2009-0865)
Image(s): Paricutin’s Crater, July 31, 1945 (Image no. SIA2009-0866)
Image(s): A group of men near Paricutin, June 14, 1943 (Image no. SIA2009-0867)
Image(s): Paricutin, June 14, 1943 (Image no. SIA2009-0868)
Image(s): Two men near Paricutin, June 14, 1943 (Image no. SIA2009-0869)
Image(s): Paricutin from the north east, June 13, 1943 (Image no. SIA2009-0870)
Image(s): Paricutin, north east side, June 18, 1943 (Image no. SIA2009-0871)
Image(s): Lake near Paricutin, August 1, 1943 (Image no. SIA2009-0872)
Image(s): House near Paricutin, July 31, 1943 (Image no. SIA2009-0873)
Image(s): Lava flow from Paricutin, July 31, 1943 (Image no. SIA2009-0874)
Image(s): Paricutin Volcano from the east, December 5, 1943 (Image no. SIA2009-0875)
Image(s): Front of flow of Paricutin Volcano from January and February 1944 (Image no. SIA2009-0876)
Image(s): Paricutin Volcano, November 28, 1943 (Image no. SIA2009-0877)
Image(s): Paricutin Volcano, March 2, 1944 (Image no. SIA2009-0878)
Image(s): Paricutin Volcano, September 17, 1943 (Image no. SIA2009-0879)
Image(s): Paricutin Volcano, January 9, 1944 (Image no. SIA2009-0880)
Image(s): Paricutin Volcano, March 2, 1944, "Return to Normal Column. Gray Steam." (Image no. SIA2009-0881)

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Digital Content: Black and white photographs taken by William F. Foshag of Paricutin Volcano, June 20-22, 1944. Includes image numbers F211A-F228.
Digital Content: Black and white photographs taken by William F. Foshag of Paricutin Volcano, July 7-August 17, 1944. Includes image numbers F229-F257.
Image(s): Image of Paricutin volcano developing taken on March 3, 1944 (Image no. SIA2009-0988)
Image(s): Image of Parícutin volcano developing taken on May 24, 1944 (Image no. SIA2009-0989)
Image(s): Man standing near Parícutin volcano, March 22, 1944 (Image no. SIA2009-0990)
Image(s): Village near the base of the Parícutin volcano, June 1944 (Image no. SIA2009-0991)
Image(s): Paricutin, afternoon, July 1, 1944 (Image no. SIA2009-0992)
Image(s): Image of Parícutin volcano developing taken on November 26, 1944 (Image no. SIA2009-0993)
Image(s): Church on Parangaricutiro, Parícutin, August 18, 1944 (Image no. SIA2009-0994)
Image(s): Image of Parícutin volcano developing taken on August 16, 1944 (Image no. SIA2009-0995)
Image(s): Image of Parícutin volcano developing taken on July 8, 1944 (Image no. SIA2009-0996)
Image(s): Panorama of Parícutin, November 26, 1944 (Image no. SIA2009-0997)
Image(s): Image of Parícutin volcano developing taken on December 3, 1944 (Image no. SIA2009-0998)
Image(s): Image of Parícutin volcano developing taken on December 1, 1944 (Image no. SIA2009-0999)
Image(s): Parícutin from Jaratiro, November 30, 1944 (Image no. SIA2009-1001)
Image(s): Parícutin, November 29, 1944; Aguan flow (dark) on San Juan flow (Image no. SIA2009-1002)
Image(s): Man sitting on a rock near Paricutin volcano, January 24, 1945 (Image no. SIA2009-1003)
Image(s): Man sitting on a rock near Parícutin volcano, January 24, 1945 (Image no. SIA2009-1004)
Image(s): Parícutin volcano, January 25, 1945 (Image no. SIA2009-1005)
Image(s): Parícutin, January 24, 1945, close up view (Image no. SIA2009-1006)
Image(s): Parícutin volcano, December 5, 1944 (Image no. SIA2009-1007)
Image(s): Parícutin, heavy ash flow over Guanajuato, January 24, 1945 (Image no. SIA2009-1008)
Image(s): Infrared image of Parícutin volcano, May 28, 1945 (Image no. SIA2009-1009)
Image(s): Parícutin volcano, the flow from the Lornitos area, July 4, 1945 (Image no. SIA2009-1010)
Image(s): Parícutin, heavy ash flow over Guanajuato, July 5, 1945 (Image no. SIA2009-1011)
Image(s): Image of the Parícutin volcano’s crater taken on July 31, 1945 (Image no. SIA2009-1012)
Image(s): Felipe Cuara-Amezcua (Image no. SIA2009-1013)
Image(s): Parícutin volcano, July 26, 1945 (Image no. SIA2009-1014)
Image(s): Paricutin, heavy ash column but raising rather lightly, frequently drifting down slope, July 4, 1945 (Image no. SIA2009-1015)

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Folder 7 Andresen, Gerardo. Photographs of Paricutin Volcano, undated.
Digital Content: Black and white photographs depict San Juan, Mexico being consumed by the lava flows of Paricutin Volcano, during its period of eruption, 1943-1952. Photographs were taken by Gerardo Anderson, and are undated.

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Folder 8 Brehme, Arno. Photographs of Paricutin Volcano, April 1943.
Digital Content: Black and white photographs and negatives taken by Arno Brehme of Paricutin Volcano, April 1943-March 1944.

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Digital Content: Black and white photographs taken by Honorato Gonzalez Castro of Paricutin Volcano, March-December, 1944.

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Folder 10 Fisher, Otto O. Consists mostly of aerial photographs of Paricutin Volcano, December 1944. Also includes a photograph of William F. Foshag in the field at Paricutin, November 27, 1944.
Digital Content: Aerial photographs of Paricutin Volcano by Otto O. Fisher, December 1944. Also includes a photograph of William F. Foshag in the field at Paricutin, November 27, 1944.

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Image(s): Image of house buried by volcanic ash spewed from Paricutin (Volcano) in Mexico, 1945 (Image no. SIA2009-0713)

Box 8 of 18
Folder 12 Garcia, Rafael. Photographs of Paricutin Volcano, 1943-1944.
Digital Content: Black and white photographs of Paricutin Volcano taken by Rafael Garcia, 1943-1944.

Box 9
Folder 1 Gonzalez, Jenaro. Photographs of Paricutin Volcano, 1944.
Digital Content: Black and white photographs of Paricutin Volcano taken by Jenaro Gonzalez, January 4-June 22, 1944.

Box 9 of 18
Folder 2 Graton, Louis C. Photographs of Paricutin Volcano, April 19, 22, 1943.
Digital Content: Black and white photographs of Paricutin volcano taken by Louis C. Graton, April 19 and 22, 1943.

Box 9 of 18
Folder 3 Gregory, Audrey F., Photographs of Paricutin Volcano, 1944.
Image(s): Image of Paricutin volcano developing, taken on November 29, 1944. The caption reads "Taken from Upper Casita." (Image no. SIA2009-0882)

Box 9 of 18
Box 9 of 18  Folder 5 Gutiérrez, Luis. Photographs of Paricutin Volcano, undated.

Box 9 of 18  Folder 6 Lawrence, Donald B. Photographs of Paricutin Volcano, December 1943.

Box 9 of 18  Folder 7 Navarro. Photographs of Paricutin Volcano, 1943-1944.

Box 9 of 18  Folder 8 Navy, United States. Aerial photographs of Paricutin Volcano, undated.

Box 9 of 18  Folders 9-10 Ordonez, Ezequiel. Photograph album and miscellaneous photographs of Paricutin Volcano, 1943-1945. 

Digital Content: Photograph album documenting the first three years of the Paricutin Volcano and its activity, February 24, 1943-March 20, 1945, taken by Ezequiel Ordonez.


Box 9 of 18  Folder 12 Pfeiffer, Arnold. Photographs of Paricutin Volcano, 1943.

Box 9 of 18  Folder 13 Richard, Horace G. Photographs of Paricutin Volcano, April 1944.

Box 9 of 18  Folder 14 Ruesga, Edmundo. Photographs of Paricutin Volcano, 1943.

Box 9 of 18  Folder 15 Ruiz, Chavez. Photographs of Paricutin Volcano, 1943.

Box 10

Box 10 of 18  Folder 1 St. Alban, Mary. Photographs of Paricutin Volcano, 1943-1944.

Box 10 of 18  Folder 2 Trask, Parker. Photographs of Paricutin Volcano, February 28, 1943.

Box 10 of 18  Folder 3 Termer, Franz. Photographs of Paricutin Volcano, November 1949.

Box 10 of 18  Folder 4 Waitz, Paul. Photographs of Paricutin Volcano, 1943-1945.

Box 10 of 18  Folder 5 Zeirer, Frank. Photographs of Paricutin Volcano, 1943-1944.

Box 10 of 18  Folders 6-7 Aerial photographs of Paricutin Volcano, no. 1-132. Taken at approximately 15,000 feet.

Digital Content: Aerial photographs documenting the terrain around Paricutin Volcano in Mexico. Images were taken May 26, 1945 at approximately 15,000 feet. Includes numbers 1-65.

Digital Content: Aerial photographs documenting the terrain around Paricutin Volcano in Mexico. Images were taken May 26, 1945 at approximately 15,000 feet. Includes numbers 66-132.

Box 10 of 18  Folders 8-10 Miscellaneous photographs of Paricutin Volcano, 1943.
Box 11 of 18  Folders 1-6 Miscellaneous photographs of Paricutin Volcano, 1944-1945 and undated.
   Image(s): William F. Foshag (Image no. SIA2009-1508)

Box 11 of 18  Folder 7 Miscellaneous photographs of Mexico, undated.
   Image(s): Dionicio Pulido (Image no. SIA2009-1544)

Box 12

Box 12 of 18  Color slides and glass plate negatives of Paricutin Volcano, undated.

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Series 5: MANUSCRIPTS, REPORTS, REPRINTS AND PUBLICATIONS ON PARÍCUTIN VOLCANO, 1943-1954 AND UNDATED.

This series consists of manuscripts, reports, reprints, and publications on Paricutin Volcano. Much of the material is written in Spanish.

Box 13


Box 13 of 18  Folder 3 Covarrubias, Luis Flores. "Interpretaciones Geneticas del Volcan Parícutin a la Luz de la Sismelogia." Folleto No. 7, Sociedad Geologica Mexicana, 1945. The report is written in Spanish.

Box 13 of 18  Folder 4 Foshag, William F. and Henderson, Edward P. "Primary Sublimates at Parícutin Volcano." Reprint from Transactions of the American Geophysical Union, vol. 27, no. 5, 1946.

Box 13 of 18  Folder 5 Foshag, William F., Handwritten draft of his review of "Volumes and weights of pyroclastic material, lava, and water erupted by Parícutin Volcano, Michoacan, Mexico," by Carl Fries, Jr., 1953.


Box 13 of 18  Folder 8 Gutiérrez, Celedonio. "Notas de Lo Que Fue en San Juan Antes del Volcan." Typed report in Spanish.


Box 13 of 18  Folder 10 Lawrence, Donald B. "Paricutin: The World's Newest Mountain." Reprint from Mazama, vol. 26, pp. 15-34, 1944.

Box 13 of 18  Folder 11 Milton, Charles. "Notes on Volcanic Rocks from Parícutin, Mexico." Reprint from Transactions of the American Geophysical Union, 1944.


Box 13 of 18  Folder 14 Ordonez, Ezequiel. "El Volcan de Paricutin," 1944.


Box 13 of 18  Folder 16 Segerstrom, Kenneth. Monthly report on Paricutin Volcano, July 1946.

Box 13 of 18  Folder 17 Termer, Franz. "Der Paricutin Vulkan in Michoacan, Mexico," 1952. Written in German.

Box 13 of 18  Folder 18 Trask, Parker D. "The Mexican Volcano Paricutin," undated. Typed report.

Box 13 of 18  Folder 19 White, Donald E. "Paricutin's Cyclic Activity." Typed manuscript and reprint from Transactions of the American Geophysical Union, 1944.

Box 13 of 18  Folder 20 Wilcox, Ray E. "Activity of Paricutin, December 1945." Typed report.

Box 13 of 18  Folder 21 Wilcox, Ray E. "Activity of Paricutin Volcano from September 18 to November 30, 1946." Reprint from Transactions of the American Geophysical Union, 1947.

Box 13 of 18  Folder 22 Wilcox, Ray E. Reports on Activity of Paricutin Volcano, September 1946-June 1947. Also includes notes by Foshag on Wilcox's reports.


Box 13 of 18  Folder 24 Wilcox, Ray E. and Oropeza, Samuel Shoup. "Activity of Paricutin Volcano from April 1 to November 30, 1947." Reprint from Transactions of the American Geophysical Union, 1948.


Box 13 of 18  Folder 28 "Geologia de Tierra Caliente y Parte de la Costa de Michoacan," author unknown and undated. Written in Spanish.
Box 13 of 18  
Folder 29 Miscellaneous articles concerning Paricutin Volcano, 1943-1952 and undated.

Box 13 of 18  
Folder 30 Miscellaneous publications concerning volcanoes.
Series 6: RESEARCH NOTES ON PARÍCUTIN VOLCANO, 1946-1950 AND UNDATED.

This series consists of research notes taken by William F. Foshag during his study of Paricutin Volcano. Most of the notes concern the analysis of lava and other materials erupted from the volcano. Also included are notes made by Foshag during his survey of Central American jade objects (box 14, folder 1).

Box 14

Box 14 of 18
Folder 1 Notebook containing notes, recorded by Foshag, mostly concerning the analysis of Paricutin lava samples. Also includes notes on Central American jade objects.

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Folder 2 Notebook containing notes, recorded by Foshag, concerning mud and salt samples from Paricutin.

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Folder 3 Ammonia and sal-ammoniac.

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Folder 4 Ascensive force.

Box 14 of 18
Folder 5 Ash-lava ratio

Box 14 of 18
Folder 6 Ash solubility

Box 14 of 18
Folder 7 Bombs

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Folder 8 Crater

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Folder 9 Eruptions

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Folder 10 Flashing arcs

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Folder 11 Fumaroles

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Folder 12 Gases

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Folder 13 Gases, burning

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Folder 14 Geology of Michoacan, Mexico.

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Folder 15 Hornitos

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Folder 16 Inclusions

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Folder 17 Laccoliths

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Folder 19 Lava, flows

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Folder 20 Lightning
Box 14 of 18  Folder 21 Rainfall
Box 14 of 18  Folder 22 Rock alteration
Box 14 of 18  Folder 23 Secondary sublimates
Box 14 of 18  Folder 24 Sublimates. Includes letter from Charles Milton to Foshag (May 22, 1947) regarding the analysis of rocks from Paricutin.
Box 14 of 18  Folder 26 Vapor clouds
Box 14 of 18  Folder 27 Volcanoes, general
Box 14 of 18  Folder 28 Water
Box 14 of 18  Folder 29 Miscellaneous research notes on Paricutin Volcano.
Series 7: MAPS OF MEXICO.

This series consists of maps collected by William F. Foshag on his many field trips to Mexico. Particularly represented are maps of the Paricutin region, Michoacan, Mexico.

Box 15

Box 15 of 18  Folders 1-4 Maps of Mexico  
**Digital Content:** Fourteen maps (including topographical) documenting William F. Foshag's work across Mexico. (Folder 1)  
**Digital Content:** Maps, illustrations, cross sections and black-and-white photographs documenting William F. Foshag's work in Mexico and Texas. (Folder 2)

Box 16

Box 16 of 18  Maps of Mexico  
Oversize

Oversize  Maps of Mexico

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Series 8: COPY NEGATIVES.

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