Guide to the Bailey Willis Geological Formations Photographs

Processed by Patricia White; machine-readable finding aid created by Patricia White
Stanford University, Libraries.Department of Special Collections and University Archives
Stanford, California
2000
Copyright © 2015 The Board of Trustees of the Leland Stanford Junior University. All rights reserved.
Overview

Call Number: A0099
Title: Bailey Willis Geological formations photographs
Dates: 1884-1899
Physical Description: 0.5 Linear feet
Language(s): The materials are in English.
Repository: Department of Special Collections and University Archives

Green Library
557 Escondido Mall
Stanford, CA 94305-6064
Email: specialcollections@stanford.edu
Phone: (650) 725-1022
URL: http://library.stanford.edu/spc

Custodial History
Administrative transfer from the Dept. of Geology, 2000

Information about Access
None.

Ownership & Copyright
Property rights reside with the repository. Literary rights reside with the creators of the documents or their heirs. To obtain permission to publish or reproduce, please contact the Public Services Librarian of the Dept. of Special Collections and University Archives.

Cite As
[Identification of item], Bailey Willis Geological Formations Photographs (A0099). Department of Special Collections and University Archives, Stanford University Libraries, Stanford, Calif.

Biography
Bailey Willis, a member of the United States Geological Survey, came to Stanford University in 1915 to succeed John C. Branner as head of the Department of Geology and taught here until his retirement in 1922.

Scope and Content
This album contains photographs of various geological formations, including columnar basalt, monoclinal ridges and folds, sandstone dikes, and exfoliated granite. Locations include New Jersey, New York, West Virginia, California (Lassen, Inyo, and Shasta Counties), Colorado (Garden of the Gods and Golden), Nebraska (Sioux and Banner Counties), and South Dakota (Big Bad Lands and the Black Hills). Photographers and dates are identified on only a few images. In one image (taken in Wilbur, New York) an outdoor advertisement for a performance of Uncle Tom's Cabin is visible on a shed.

Box 1, Folder 1

Pages 1-3:
41. Columnar basalt. O'Rourke's quarry, Orange Mountain, New Jersey
67? The Shenandoah River near Harper's Ferry
50. Middle quarry, Penryn Slate Company. Bedding of roofing slate coincident with cleavage
57. Cherty layers interbedded with shales, eight miles below Quebec, Canada
42. Columnar basalt. O'Rourke's quarry, Orange Mountain, New Jersey. North end of quarry

Box 1, Folder 2

Pages 4-6:
68? Potomac near Harper's Ferry. Note that the strata stand on end
88. Monoclinal ridge. Colorado City, Colorado. Triassic and Jurassic
140. Gravel spit near Mackinaw Island, Lake Michigan
218. The cinder cone from the east, Lake Bidwell, Lassen County, California
214. Sandstone dike penetrating Cretaceous shales, Dry Creek, California
216. Lava field and cinder cone looking southwest across Lake Bidwell, Lassen County, California; Lassen Peak in the distance

Box 1, Folder 3

Pages 7-9:
45. Vertical columns of basalt with spheroidal parting and transverse structure. O'Rourke's quarry, Orange Mountain, New Jersey.
43. Columnar basalt. South end of O'Rourke's quarry, Orange Mountain, New Jersey.
251. Overturned anticline in Massanutten beds, Panther Gap, Virginia; looking south.
401. Fault in the Gering formation half a mile north of Rutland siding, south of Crawford, Nebraska; looking west.
22. Anticlinal fold in Levis terrace, about Levis Station, Quebec, Canada.
23. Folding of shales and sandstone, south shore of the St. Lawrence River nine miles below Quebec.

Box 1, Folder 4

Pages 10-12:
37. Brecciated limestone conglomerate. Highgate Falls, Vermont.
27. Fold in Brown sandstone near Hancock, West Virginia.
26. Arched strata on Chesepeak [sic] and Ohio Canal near Hancock, West Virginia.
520. Protoceras sandstone area, Big Bad Lands, South Dakota, 1898.
525. the Pulpit, Big Bad Lands, South Dakota, 1898.

Box 1, Folder 5

Pages 13-15:
441. Toadstool Park, northwest of Adelia, Sioux County, Nebraska.
327. Erosion by wind-blown sand; three miles northeast of Freeport, Banner County, Nebraska.
868. Plicated layers of thin bedded chert in limestone.
841. Lower Cambrian quartzite showing vertical cleavage in massive layers and interbedded thin layers without cleavage. Inyo County, California.

Box 1, Folder 6

Pages 16-18:
206. image missing.
209. Sandstone dikes cutting Cretaceous shales on Roaring River, Shasta County, California.
55. Image missing.
145. Beach or bar joining Empire and Sleeping Bar bluffs on Lake Michigan.
176. Upturned lower shaley beds of the Heiderger formation at Wilbur, New York; looking north [large advertisement for performance of Uncle Tom's cabin visible on shed].

Box 1, Folder 7

Pages 19-21:
223. Anticlinal fold in the Lewiston limestone and Monterey sandstone. North Fork of the Potomac River, two miles south of Hopeville, West Virginia; looking north.
210. Group of sandstone dikes on the North Fork of Cottonwood Creek, Shasta County, California.
47. Table Mountain near Golden, Colorado.
211. Group of sandstone dikes on the North Fork of Cottonwood Creek, Shasta County, California.
226. Near view of lava blocks on the edge of the lava fields near Lake Bidwell, Lassen County, California. The lava is basalt.

Box 1, Folder 8

Pages 22-24:
434. Titanotheriun beds, two miles east of Adelia, Sioux County, Nebraska.
368. Toadstool Park, three miles northwest of Adelia, Sioux County, Nebraska. Thin sandstone layers in clays of Big Bad Lands series.
505. Pass over which Flour Trail crosses the Big Bad Lands. High level Pleistocene gravel in the foreground.
222. Anticline fold in the Lewiston limestone and Monterey sandstone, north fork of the Potomac River, two miles south of Hopeville, West Virginia; looking north

254. Dakota sands in a pit just south of Bennett, Nebraska (note in pencil: "false bedding")

Box 1, Folder 9 Pages 25-27:

213. Sandstone dike penetrating Cretaceous shales, Dry Creek, California
205. Sandstone dike penetrating Cretaceous shales. Dry Creek, Tehama County, California
865. Plicated layers of thin bedded chert in limestone
867. Plicated layers of thin bedded chert in limestone
465. Granite Needles, near Harney's Peak, Black Hills, South Dakota, 1898

469. The Needles. Southern Group, near Harney's Peak, Black Hills, South Dakota, 1898

Box 1, Folder 10 Pages 28-30:

35. Seams in limestone filled with calcite
36. Seams in limestone filled with calcite
507. Big Bad Lands north of Flour Trail, South Dakota
519. Protoceras area, Big Bad Lands, South Dakota, 1898
177. Cement rock and sand rock railroad cut one mile south of Whiteport Station, New York: looking north (note in pencil: "beds folded and eroded")
182. Arch at High Falls, Ulster County, New York, looking northwest

Box 1, Folder 11 Pages 31-33:

87. Jurassic rocks. Como, Wyoming
84. Triassic sandstone. Garden of the Gods, Colorado
142. Spit on Train Island, Lake Superior
242. Exfoliated granite dome in Tuolumne County, California
121. Forest killed by drifting sand. Lake Michigan
144. I recurved spit, duck Point, Grand Traverse Bay, Lake Michigan

Box 1, Folder 12 Pages 34-35:

1189. Exfoliated granite, crest of the Sierra Nevada mountains (note in pencil: "no bedding")
1198. Wind ripples on sand, Golden Gate Park, San Francisco
1190. Wind ripples on sand, Golden Gate Park, San Francisco
54. Boulders of decomposition formed by the decay of basalt. Table Mountain, Golden, Colorado, (note in pencil: "no bedding") 1884
1175. Potholes in the granite of the canon of the North Fork of the Mokelumne River, California

Box 1, Folder 13 Pages 36-37:

25. Section of anticlinal ridge near Dunkirk, New York. Devonian black shale
128. Old lake shore near Pierrepoint, New York
115. Shore of Lake Ontario, Pillar Point, New York. Typical glacial surface
669. "Point Pots." Near Fountain Geyser in the Yellowstone National Park, 1899
113. Striated limestone boulder from Norway, Iowa (half natural size)

Box 2 Original album covers