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Santa Fe Railroad Water Resources, 1913-1965

AHS-ND.856



Descriptive Summary

Creator:	Atchison, Topeka, and Santa Fe Railroad Company.
Collection Name	Santa Fe Railroad Water Resources,
Inclusive Dates:	1913-1965
Physical Description	1.5 linear ft.
Abstract	Business correspondence, engineering reports regarding water projects, blueprints for water storage facilities, photographs of water and utilities engineering projects.
Collection Number	AHS-ND.856
Language	English.
Repository	Arizona Historical Society/Flagstaff Archives PO Box 6022 Flagstaff, AZ 86011-6022 Phone: 928 523 5551 Fax: 928 774 1596 Email: ahsnad@infomagic.net

Biographical Note

The Atchison, Topeka and Santa Fe Railway Company was founded in Kansas, 1859. Under the leadership of company founder, Cyrus K. Holiday, the rail line was built from Chicago to Los Angeles (completed in 1888) and eventually had spur lines that tapped the cotton and cattle markets in Texas and the Gulf of Mexico. The materials in this collection were collected during the career of George L. Davenport Jr., Atchison, Topeka and Santa Fe Railway Company engineer, and relate to water resources engineering for the Atchison, Topeka and Santa Fe Railway Company, primarily with regard to supplying water to operate steam locomotives along the railway line between New Mexico and California. However, there is also an extensive photographic record, as well as some documentary material (compiled by Davenport) regarding water and utilities projects in Grand Canyon National Park, particularly those at Hermit's Rest, Indian Gardens and Phantom Ranch Arizona.

Scope and Content Note

The collection is approximately 1.5 linear feet, including .25 linear feet of manuscripts, and 1.25 linear feet of photographs. The materials have been left in their original (provenance) order, thus a variety of different types of documents are found in a single folder, including photographs (folder #3), blueprints (folder #5), and published reports (folder #1). However, most of the manuscript materials are correspondence and reports regarding water supply engineering issues along railway lines between New Mexico and California. Much of the text materials are a water supply history written by George L Davenport (the primary creator of the collection) with a particular emphasis on Flagstaff and Winslow, AZ., Needles, CA., and Mohave Desert area of California. The bulk of the photographs show engineering projects conducted in the Grand Canyon during the period, 1920-1949. Other images include water related engineering projects in other areas of Northern Arizona, New Mexico, and California.

Organization

2 Series. I. Correspondence and Reports. II. Photographs

Restrictions

Restrictions

None.

Copyright

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Related Material

Plateau Geoservices Group, NAU Collection #240
Williams Water Works, NAU Collection #17
Flagstaff Water Use and Utilization Commission, NAU Collection #166
Atchison Topeka and Santa Fe Railway Records 1889-1981 (bulk 1889-1930, 1965-1979),
at the Special Collections Division, University of Texas at Arlington, Libraries Collection
Arizona Historical Society/Flagstaff, Photographic Collections, AHS #900

Access Points

Corporate Name(s)

Atchison, Topeka, and Santa Fe Railroad Company--Archives.

Subject(s)

Water-supply engineering--Arizona.

Water-supply--Arizona.

Genre Form(s)

Correspondence.

Reports.

Administrative Information**Credit Line**

Arizona Historical Society/Flagstaff. AHS-ND.856

Container List**Series 1. Correspondence and Reports, 1913, 1921, 1941-43 and 1949-1965**

.25 linear feet. Reports and correspondence related to Atchison Topeka and Santa Fe railroad water supplies and Grand Canyon, Arizona sewage treatment. Included are railroad related sewage treatment projects; water pumping affidavit; Mohave Desert water study; water supply study regarding railroad line between New Mexico and California; and a report on Winslow, Arizona City water supply, as well other watershed areas in the Southwest, 1913-1965 and 1882 [not inclusive]

Box-
folder

- 1.1 Report on Development of Water Supplies on Atchison Topeka and Santa Fe Railroad Company; job application letters of George L. Davenport for position of Senior Civil Engineer position, 1913; Report, The Use of Reclaimed Sewage Water at Grand Canyon, Arizona, May 4, 1938; Publication, Reduction of Mineral Content in Water with Organic Zeolites, 1943; Sketch of pile bridge at Houcks Ranch AandP RR Arizona Territory, June 5, 1882; and related materials 1913-1949 and 1882 [not inclusive],

Box-
folder

- 1.2 Affidavit concerning water use prior to June 25, 1929 by Atchinson, Topeka and Santa Fe Railway Company; water production report for Needles, California, 1925 and 1965

Box-
folder

- 1.3 Field reconnaissance report by George L. Davenport of two potential railway routes across the Mohave Desert, photographs [AHS.PH.0856.00001-12] and map of area

included in report , July 25, 1955

Box-
folder

1.4 Handwritten manuscript of water related history of the Atchison Topeka and Santa Fe Railway Company for the area between Albuquerque, New Mexico and Barstow, California, by George L. Davenport , January 27, 1958

Box-
folder

1.5 Water storage blueprints; Report on, "Proposed Improvements in City Water Supply, Winslow, Arizona"; correspondence regarding railroad train water storage; report regarding tourism to Ash Fork, Arizona, entitled, "We Visit the Land of Sky Blue Water", by Samuel E. Turner (Atchison Topeka and Santa Fe Railroad Company) , 1940, 1950, 1952 and 1961

Box-
folder

1.6 Report entitled, "Water of the Santa Fe Railway in Northern Arizona"; Report entitled, "Water Stations, Phoenix Divisions, with Recommendations for 1921 Budget"; personal correspondence between George L. Davenport and L.H. Mathews regarding wells and pumps , 1920, ca. 1930, and 1961

Box-
folder

1.7 Report entitled, "Development of Water Supplies on the Atchison Topeka and Santa Fe Railway Company" (Coast Lines); handwritten manuscript of water development history on the Atchison Topeka and Santa Fe railway line from Kansas to California, by George L. Davenport, ca. 1955

Series 2. Photographs, 1916-1949

304 photographs. Photographs depicting engineering projects from New Mexico to California, the bulk being of Grand Canyon, Arizona projects

Box-folder

AHS.PH.0856.00001- Photographs within a field reconnaissance report, by George L. Davenport, 12 regarding two potential railway routes across the Mohave Desert; (12) photographs [AHS.PH.0856.00001-12] interspersed within the text. Photographs depict Johnson and Lucerne Valley, Mojave river valley, Joshua Tree and Twentynine Palms, California, with ranch and desert views , 1955

Box-folder

AHS.PH.0856.00013 Flagstaff, Arizona, inner basin of San Francisco Peaks , May 1931

Box-folder

AHS.PH.0856.00014 Walker Lake, San Francisco Peaks, AZ. , September 1924

Box-folder

AHS.PH.0856.00015 Schultz Pass, San Francisco Peaks, AZ. , February 1924

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AHS.PH.0856.00016 Pages' fish hatchery, Verde Valley, AZ. , May 1931

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- AHS.PH.0856.00017 Stoneman Lake, AZ. , May 1931
Box-folder
- AHS.PH.0856.00018 Lake Mary reservoir (reservoir), AZ. , May 1931
Box-folder
- AHS.PH.0856.00019 Morman Lake, AZ. , May 1931
Box-folder
- AHS.PH.0856.00020 Montezuma's Well, Arizona , May 1931
Box-folder
- AHS.PH.0856.00021 Schultz Pass, San Francisco Peaks, AZ. , February 1924
Box-folder
- AHS.PH.0856.00022 Proposed dam site, Flagstaff, AZ. , July 7, 1921
Box-folder
- AHS.PH.0856.00023 Proposed reservoir site, Flagstaff, AZ. , July 15, 1921
Box-folder
- AHS.PH.0856.00024 Proposed dam site, Flagstaff, AZ., South of Fort Valley July 15, 1921,
Box-folder
- AHS.PH.0856.00025 Proposed San Francisco Peaks dam site, Flagstaff, AZ. August 1924,
Box-folder
- AHS.PH.0856.00026 Walker Lake and San Francisco Peaks, AZ. , August 1924
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- AHS.PH.0856.00027 Walker Lake, AZ. , August 1924
Box-folder
- AHS.PH.0856.00028 San Francisco Peaks, Inner Basin, AZ. , May 1931
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- AHS.PH.0856.00029 San Francisco Peaks, Inner Basin, AZ. , May 1931
Box-folder
- AHS.PH.0856.00030 San Francisco Peaks, Inner Basin, AZ. , May 1931
Box-folder
- AHS.PH.0856.00031 San Francisco Peaks, Inner Basin, AZ. , May 1931
Box-folder
- AHS.PH.0856.00032 Morman Lake, AZ. , May 1931
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- AHS.PH.0856.00033 Ferry Point, CA. , January 1932
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- AHS.PH.0856.00034 Ferry Point, CA. , January 1932
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- AHS.PH.0856.00035 Ferry Point, CA. , March 13, 1926
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- AHS.PH.0856.00036 Train Shed at Ferry Point, CA. , March 13, 1926
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- AHS.PH.0856.00037 Crater Lake, Flagstaff, AZ. , August 1924

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AHS.PH.0856.00038 Train Shed, Ferry Point, CA. , March 13, 1926

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AHS.PH.0856.00039 Ferry Point, CA., hill south of Garrard Blvd. , n.d.

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AHS.PH.0856.00040 Ferry Point, CA. , March 13, 1926

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AHS.PH.0856.00041 Ferry Point, CA. , March 13, 1926

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AHS.PH.0856.00042 Ferry Point, CA., along brick spur , March 13, 1926

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AHS.PH.0856.00043 Ferry Point, CA. , March 13, 1926

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AHS.PH.0856.00044 Ferry Point, CA. , 1921

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AHS.PH.0856.00045 Ferry Point, CA. , 1921

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AHS.PH.0856.00046 Man in business suit and hat, possibly George L. Davenport, Williams, AZ.
, August 3, 1935

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AHS.PH.0856.00047 Desert View point, Grand Canyon, AZ., eastward view , June 1940

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AHS.PH.0856.00048 Gallup, NM., buggy and electric wires on main street , ca. 1910

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AHS.PH.0856.00049 Phantom Ranch, Grand Canyon, AZ., swimming pool , 1941

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AHS.PH.0856.00050 Mr. Boschke, Mr. Owens, and Mr. Younger at Zuni, NM. , June 22, 1923

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AHS.PH.0856.00051 George L. Davenport III at Grand Canyon, AZ. looking through spotting
scope , September 1941

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AHS.PH.0856.00052 Bright Angel Creek, Grand Canyon, AZ. , September 1941

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AHS.PH.0856.00053 George L. Davenport, Mr. Carroll and Mr. Nelson on Mules at Yaki Point,
Grand Canyon, AZ. , September 1941

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AHS.PH.0856.00054 Deer at Indian Gardens, Grand Canyon, AZ. , January 1946

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AHS.PH.0856.00055 Phantom Ranch, Grand Canyon, AZ. , September 1941

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AHS.PH.0856.00056 Phantom Ranch, Grand Canyon, AZ., buck deer , September 1941

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AHS.PH.0856.00057 Ferry Point, CA. , ca. 1928

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AHS.PH.0856.00058 Boiler house , 1928

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AHS.PH.0856.00059 Flagstaff, AZ. reservoir, 50 million gallon water storage capacity , ca. 1924

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AHS.PH.0856.00060 Crater Lake, AZ. , August 1924

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AHS.PH.0856.00061 San Francisco Peaks , February 1924

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AHS.PH.0856.00062 Inner Basin of San Francisco Peaks, AZ. , May 1931

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AHS.PH.0856.00063 Lake Mary reservoir, AZ. , August 1939

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AHS.PH.0856.00064 Lake Mary reservoir, AZ. , August 1939

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AHS.PH.0856.00065 Lake Mary reservoir, AZ. , August 1939

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AHS.PH.0856.00066 Lake Mary reservoir, AZ. , August 1939

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AHS.PH.0856.00067 Lake Mary reservoir, AZ. , August 1939

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AHS.PH.0856.00068 Railroad depot, Flagstaff, AZ. , February 1939

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AHS.PH.0856.00069 Flagstaff, AZ., water reservoir , February 1924

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AHS.PH.0856.00070 Franconia, AZ. , n.d.

Box-folder

AHS.PH.0856.00071 Zeolite plant, Ferry Point, CA. , January 24, 1932

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AHS.PH.0856.00072 Zeolite plant, Ferry Point, CA. , January 24, 1932

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AHS.PH.0856.00073 Ferry Point, CA., commercial wharf , March 13, 1926

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AHS.PH.0856.00074 Ferry Point, CA., commercial wharf , 1921

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AHS.PH.0856.00075 Fenner, CA., water facilities , April 5, 1916

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AHS.PH.0856.00076 Fenner, CA., water facilities , April 5, 1916

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AHS.PH.0856.00077 Fenner, CA., centrifugal pump , July 18, 1918

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AHS.PH.0856.00078 Fenner, CA., 100 hp. semi-diesel engine , July 18, 1918

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AHS.PH.0856.00079 Fenner, CA., Laidlaw compressor , July 18, 1918

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AHS.PH.0856.00080 Hose reel cart with locomotive in background , 1949

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AHS.PH.0856.00081 Coal Chute, Gallup, NM. , January 6, 1920

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AHS.PH.0856.00082 Gallup, NM., engine air compressor , August 31, 1916

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AHS.PH.0856.00083 Gallup, NM., concrete lined reservoir , August 31, 1916

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AHS.PH.0856.00084 Gallup, NM., compressor , August 31, 1916

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AHS.PH.0856.00085 Gallup, NM., compressor , August 31, 1916

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AHS.PH.0856.00086 Gallup, NM., Well #1 , 1917

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AHS.PH.0856.00087 Gallup, NM., powerhouse , 1918

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AHS.PH.0856.00088 Gallup, NM., compressor for air lift , 1918

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AHS.PH.0856.00089 Gallup, NM., water tanks and train depot , n.d.

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AHS.PH.0856.00090 Gallup, NM., town Imhoff tank , May 1938

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AHS.PH.0856.00091 Gallup, NM., Link Belt Clarifier , November 1939

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AHS.PH.0856.00092 Gallup, NM., treating house , November 1939

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AHS.PH.0856.00093 Gallup, NM., Spaulding Precipitator , November 1939

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AHS.PH.0856.00094 Gallup, NM., city well east of town , July 1939

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AHS.PH.0856.00095 Gallup, NM., new oil facility , June 1945

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AHS.PH.0856.00096 Gallup, NM., well #9 , June 1945

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AHS.PH.0856.00097 Gallup, NM., new oil facility , June 1945

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- AHS.PH.0856.00098 Gallup, NM., fuel oil pump house , February 1947
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- AHS.PH.0856.00099 Gallup, NM., oil pump house interior , February 1947
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- AHS.PH.0856.00100 Gallup, NM., oil deliver tank , February 1947
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- AHS.PH.0856.00101 Gallup, NM., oil pump house , February 1947
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- AHS.PH.0856.00102 Los Angeles, CA., sewer cleaning machine , ca. 1939
Box-folder
- AHS.PH.0856.00103 Los Angeles, CA., home construction at, 653 South Clarence Street , n.d.
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- AHS.PH.0856.00104 Los Angeles, CA., long belt drive and motor , ca. 1941
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- AHS.PH.0856.00105 Gallup, NM., train coach water box , February 12, 1949
Box-folder
- AHS.PH.0856.00106 Gallup, NM., train coach water box , February 12, 1949
Box-folder
- AHS.PH.0856.00107 Gallup, NM., train coach water box , February 12, 1949
Box-folder
- AHS.PH.0856.00108 Gallup, NM., train coach water box (view east) , February 12, 1949
Box-folder
- AHS.PH.0856.00109 Glendora, CA., treating tank close up showing various wear factors
[technical photograph] , August 23, 1918
Box-folder
- AHS.PH.0856.00110 Glendora, CA., treating tank close up showing various wear factors
[technical photograph] , August 23, 1918
Box-folder
- AHS.PH.0856.00111 Glendora, CA., treating tank close up showing various wear factors
[technical photograph] , August 23, 1918
Box-folder
- AHS.PH.0856.00112 Glendora, CA., treating tank close up showing various wear factors
[technical photograph] , August 23, 1918
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- AHS.PH.0856.00113 Glendora, CA., treating tank close up showing various wear factors
[technical photograph] , August 23, 1918
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- AHS.PH.0856.00114 Glendora, CA., treating tank close up showing various wear factors
[technical photograph] , August 23, 1918
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- AHS.PH.0856.00115 Glendora, CA., treating tank close up showing various wear factors
[technical photograph] , August 23, 1918
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AHS.PH.0856.00116 Glendora, CA., treating tank close up showing various wear factors [technical photograph] , August 23, 1918

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AHS.PH.0856.00117 Glendora, CA., treating tank close up showing various wear factors [technical photograph] , August 23, 1918

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AHS.PH.0856.00118 Glendora, CA., treating tank close up showing various wear factors [technical photograph] , August 23, 1918

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AHS.PH.0856.00119 Glendora, CA., treating tank close up showing various wear factors [technical photograph] , August 23, 1918

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AHS.PH.0856.00120 Grand Canyon, AZ., power house , May 1938

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AHS.PH.0856.00121 Grand Canyon, AZ., men's dormitory , n.d.

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AHS.PH.0856.00122 Grand Canyon, AZ., spray pond at Bright Angel Camp May 1938,

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AHS.PH.0856.00123 Grand Canyon, AZ., canyon view to the north , May 1938

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AHS.PH.0856.00124 Grand Canyon, AZ., electric cable running to Indian Gardens , June 1932

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AHS.PH.0856.00125 Grand Canyon, AZ., electric cable running to Indian Gardens , June 1932

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AHS.PH.0856.00126 Grand Canyon, AZ., laying cable for Indian Gardens pumping plant , 1932

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AHS.PH.0856.00127 Grand Canyon, AZ., tramway for Indian Gardens pipeline , 1932

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AHS.PH.0856.00128 Grand Canyon, AZ., Ribbon Falls , February 1926

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AHS.PH.0856.00129 Grand Canyon, AZ., electric cable , June 1932

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AHS.PH.0856.00130 Grand Canyon, AZ., Pipe Creek Canyon , September 1923

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AHS.PH.0856.00131 Grand Canyon, AZ., generator and turbine house U.P. company, Bright Angel Canyon , May 1928

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AHS.PH.0856.00132 Grand Canyon, AZ., solenoid valves , 1939

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AHS.PH.0856.00133 Grand Canyon, AZ., electric eye device , 1939

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AHS.PH.0856.00134 Grand Canyon, AZ., pump house, electric eye , 1939

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AHS.PH.0856.00135 Grand Canyon, AZ., pump house, electric eye 1939,

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AHS.PH.0856.00136 Grand Canyon, AZ., Desert View Tower , January 1933

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AHS.PH.0856.00137 Grand Canyon, AZ., pump house and reservoir , June 1932

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AHS.PH.0856.00138 Grand Canyon, AZ., west spring of Indian Gardens , August 1932

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AHS.PH.0856.00139 Grand Canyon, AZ., F and M turbine pump at lower Indian Gardens ,
August 1932

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AHS.PH.0856.00140 Grand Canyon, AZ., air agitation tank , May 1926

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AHS.PH.0856.00141 Grand Canyon, AZ., Hermit Camp, Pima Point aerial tram, upper terminal ,
May 1926

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AHS.PH.0856.00142 Grand Canyon, AZ., Lookout House , n.d.

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AHS.PH.0856.00143 Grand Canyon, AZ., incinerator , n.d.

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AHS.PH.0856.00144 Grand Canyon, AZ., incinerator , n.d.

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AHS.PH.0856.00145 Grand Canyon, AZ., refrigeration plant, interior tank room , n.d.

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AHS.PH.0856.00146 Grand Canyon, AZ., gasoline storage , n.d.

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AHS.PH.0856.00147 Grand Canyon, AZ., gasoline tanks , n.d.

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AHS.PH.0856.00148 Grand Canyon, AZ., pump house , n.d.

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AHS.PH.0856.00149 Grand Canyon, AZ., installing water tank , July 1939

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AHS.PH.0856.00150 Grand Canyon, AZ., 300,000 gallon reservoir for reclaimed water , July
1939

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AHS.PH.0856.00151 Grand Canyon, AZ., 300,000 gallon reservoir for reclaimed water , July
1939

Box-folder

AHS.PH.0856.00152 Grand Canyon, AZ., 300,000 gallon reservoir for reclaimed water , August
1939

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AHS.PH.0856.00153 Grand Canyon, AZ., gasoline storage plant , July 1929

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AHS.PH.0856.00154 Grand Canyon, AZ., 15,000 gallon elevated water tank , June 1949

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AHS.PH.0856.00155 Grand Canyon, AZ., 15,000 gallon elevated water tank , June 1949

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AHS.PH.0856.00156 Grand Canyon, AZ., Hermit Camp, Pima Point, Grand Canyon, AZ., aerial tramway , May 1926

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AHS.PH.0856.00157 Grand Canyon, AZ., Hermit Camp, Pima Point, Grand Canyon, AZ., aerial tramway; view from canyon to rim , May 1926

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AHS.PH.0858.00158 Grand Canyon, AZ., Permutit Zeolite Plant September 1932,

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AHS.PH.0856.00159 Grand Canyon, AZ., Phantom Ranch, Hypochlorite tank , 1936

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AHS.PH.0856.00160 Grand Canyon, AZ., Phantom Ranch swimming pool , 1936

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AHS.PH.0856.00161 Grand Canyon, AZ., Indian Gardens pipeline , June 1932

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AHS.PH.0856.00162 Grand Canyon, AZ., Indian Gardens pipeline , June 1932

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AHS.PH.0856.00163 Grand Canyon, AZ., compressor house , 1922

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AHS.PH.0856.00164 Grand Canyon, AZ., Vilter Corliss engine and compressor , 1922

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AHS.PH.0856.00165 Grand Canyon, AZ., Gay Cooling Tower , 1922

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AHS.PH.0856.00166 Grand Canyon, AZ., Receiver, regenerator, circulating pump room , 1922

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AHS.PH.0856.00167 Grand Canyon, AZ., propane tanks , February 1926

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AHS.PH.0856.00168 Grand Canyon, AZ., Yaki trail , February 1926

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AHS.PH.0856.00169 Grand Canyon, AZ., Hermit Camp, Pima Point, aerial tramway , May 1926

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AHS.PH.0856.00170 Grand Canyon, AZ., Hermit Camp, Pima Point, aerial tramway , May 1926

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AHS.PH.0856.00171 Grand Canyon, AZ., Hermit Camp, Pima Point, aerial tramway; mid span view , May 1926

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AHS.PH.0856.00172 Grand Canyon, AZ., Hermit Camp, Pima Point, aerial tramway , May 1926

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AHS.PH.0856.00173 Grand Canyon, AZ., Hermit Camp, Pima Point, aerial tramway; mid span view , May 1926

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AHS.PH.0856.00174 Grand Canyon, AZ., Hermit Camp, Pima Point, aerial tramway , May 1926

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AHS.PH.0856.00175 Grand Canyon, AZ., Hermit Camp, Pima Point, aerial tramway; framing of upper terminal , May 1926

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AHS.PH.0856.00176 Austrian Rax aerial tram support; Rax Seilbahn Stulze design , n.d.

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AHS.PH.0856.00177 Grand Canyon, AZ., Phantom Ranch, Bright Angel Creek , June 1949

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AHS.PH.0856.00178 Grand Canyon, AZ., Phantom Ranch, Bright Angel Creek , June 1949

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AHS.PH.0856.00179 Grand Canyon, AZ., Indian arrowhead display , 1935

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AHS.PH.0856.00180 Grand Canyon, AZ., Indian Gardens pump house , 1932

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AHS.PH.0856.00181 Grand Canyon, AZ., laying electric cable for transmission line to Indian Gardens pumping plant , 1932

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AHS.PH.0856.00182 Grand Canyon, AZ., laying electric cable for transmission line to Indian Gardens pumping plant , 1932

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AHS.PH.0856.00183 Grand Canyon, AZ., winter view , 1933

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AHS.PH.0856.00184 Grand Canyon, AZ., pipeline , 1932

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AHS.PH.0856.00185 Grand Canyon, AZ., pipeline , 1932

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AHS.PH.0856.00186 Grand Canyon, AZ., applying second service coat to pipeline , 1932

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AHS.PH.0856.00187 Grand Canyon, AZ., pipeline to Indian Gardens , 1932

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AHS.PH.0856.00188 Grand Canyon, AZ., pipeline to Indian Gardens , 1932

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AHS.PH.0856.00189 Grand Canyon, AZ., pipeline testing , 1932

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AHS.PH.0856.00190 Grand Canyon, AZ., Indian Gardens pump house , 1946

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- AHS.PH.0856.00191 Grand Canyon, AZ., Indian Gardens pump house , 1932
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- AHS.PH.0856.00192 Grand Canyon, AZ., Indian Gardens, outlet of east springs , June 14, 1932
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- AHS.PH.0856.00193 Grand Canyon, AZ., Indian Gardens, reservoir foundation , March 1932
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- AHS.PH.0856.00194 Grand Canyon, AZ., Indian Gardens, pump house construction , June 14, 1932
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- AHS.PH.0856.00195 Grand Canyon, AZ., Indian Gardens, Waila Dane propane tanks , March 1932
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- AHS.PH.0856.00196 Grand Canyon, AZ., Indian Gardens, pipeline , March 1932
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- AHS.PH.0856.00197 Grand Canyon, AZ., pipeline testing , August 1932
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- AHS.PH.0856.00198 Grand Canyon, AZ., pipeline, applying grease , 1932
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- AHS.PH.0856.00199 Grand Canyon, AZ., pipeline, applying grease , 1932
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- AHS.PH.0856.00200 Grand Canyon, AZ., pipeline, applying grease ,
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- AHS.PH.0856.00201 Grand Canyon, AZ., laying electric cable with crane wench , n.d.
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- AHS.PH.0856.00202 Grand Canyon, AZ., new trail on North Rim; man with mule and coiled cable , ca. 1928
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- AHS.PH.0856.00203 Grand Canyon, AZ., mule crossing suspension bridge (Kiabab bridge?) , February 1926
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- AHS.PH.0856.00204 Grand Canyon, AZ., tramway to Indian Gardens , 1931
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- AHS.PH.0856.00205 Grand Canyon, AZ., electric cable on spool held by crane and guided by two men , 1932
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- AHS.PH.0856.00206 Grand Canyon, AZ., tramway to Indian Gardens , 1932
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- AHS.PH.0856.00207 Gallup NM., "Ry" at well (man named Ry) , 1944
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- AHS.PH.0856.00208 George Davenport, Freman M. Wolfe, J.C. Pajet at pump for zeolite plant , 1945
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AHS.PH.0856.00209 Grand Canyon, AZ., Hermit Camp, Pima Point aerial tramway; temporary carrier installed on cable , May 1926

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AHS.PH.0856.00210 Grand Canyon, AZ., Hermit Camp, Pima Point aerial tramway , May 1926

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AHS.PH.0856.00211 Grand Canyon, AZ., Hermit Camp, Pima Point aerial tramway , May 1926

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AHS.PH.0856.00212 Grand Canyon, AZ., Hermit Camp, Pima Point aerial tramway , May 1926

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AHS.PH.0856.00213 Grand Canyon, AZ., Hermit Camp, Pima Point aerial tramway , May 1926

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AHS.PH.0856.00214 Grand Canyon, AZ., Hermit Camp, Pima Point aerial tramway , May 1926

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AHS.PH.0856.00215 Grand Canyon, AZ., Hermit Camp, Pima Point aerial tramway , May 1926

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AHS.PH.0856.00216 Grand Canyon, AZ., winter scene; photographer, Lon Carrie , December 20, 1931

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AHS.PH.0856.00217 Grand Canyon, AZ., U.P tramway, Bright Angel Creek , May 1928

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AHS.PH.0856.00218 Grand Canyon, AZ., Roaring Springs , February 1926

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AHS.PH.0856.00219 Grand Canyon, AZ., Phantom Ranch , February 1926

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AHS.PH.0856.00220 Grand Canyon, AZ., Box Canyon, Bright Angel Creek , February 1926

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AHS.PH.0856.00221 Grand Canyon, AZ., intake end of 2" water supply for Phantom Ranch , September 26, 1924

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AHS.PH.0856.00222 Grand Canyon, AZ., Bright Angel Creek near Phantom Ranch , 1936

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AHS.PH.0856.00223 Grand Canyon, AZ., Bright Angel Creek proposed dam site near Phantom Ranch , 1936

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AHS.PH.0856.00224 Grand Canyon, AZ., Phantom Ranch , November 1929

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AHS.PH.0856.00225 Grand Canyon, AZ., tramway , May 12, 1926

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AHS.PH.0856.00226 Grand Canyon, AZ., tramway , May 12, 1926

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AHS.PH.0856.00227 Grand Canyon, AZ., proposed tramway near Phantom Ranch , September 1923

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AHS.PH.0856.00228 Grand Canyon, AZ., proposed tramway near Phantom Ranch , September 1923

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AHS.PH.0856.00229 Grand Canyon, AZ., wood recovery tramway , February 1931

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AHS.PH.0856.00230 Grand Canyon, AZ., wood recovery tramway , March 1931

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AHS.PH.0856.00231 Grand Canyon, AZ., wood recovery tramway , March 1931

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AHS.PH.0856.00232 Grand Canyon, AZ., wood recovery tramway, load in mid-stream , March 1931

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AHS.PH.0856.00233 Grand Canyon, AZ., wood recovery tramway , March 1931

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AHS.PH.0856.00234 Grand Canyon, AZ., wood recovery tramway , March 1931

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AHS.PH.0856.00235 Grand Canyon, AZ., wood recovery tramway; carrier and hoist , March 1931

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AHS.PH.0856.00236 Grand Canyon, AZ., wood recovery tramway, engine and carrier , March 1931

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AHS.PH.0856.00237 Grand Canyon, AZ., wood recovery tramway , March 1931

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AHS.PH.0856.00238 Grand Canyon, AZ., "Hopi Home" , February 1926

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AHS.PH.0856.00239 Grand Canyon, AZ., Bright Angel Creek , September 1923

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AHS.PH.0856.00240 Grand Canyon, AZ., Four engineers near Ribbon Falls , ca. 1925

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AHS.PH.0856.00241 Grand Canyon, AZ., Buffalo herd at Homestead Valley , May 1928

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AHS.PH.0856.00242 Grand Canyon, AZ., pouring concrete for Indian Gardens reservoir , April 4, 1932

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AHS.PH.0856.00243 Grand Canyon, AZ., suspension bridge (Kaibab?) , September 1923

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AHS.PH.0856.00244 Grand Canyon, AZ., water near Ribbon Falls , n.d.

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AHS.PH.0856.00245 Grand Canyon, AZ., old suspension bridge , September 1923 (1929?)

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- AHS.PH.0856.00246 Grand Canyon, AZ., Indian Gardens stone building September 1923,
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- AHS.PH.0856.00247 Grand Canyon, AZ., Ribbon Falls , February 1926
Box-folder
- AHS.PH.0856.00248 Grand Canyon, AZ., block and tackle with two men laying cable into
canyon , 1932
Box-folder
- AHS.PH.0856.00249 Grand Canyon, AZ., site of Pumpkin House, Indian Gardens , April 1931
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- AHS.PH.0856.00250 Grand Canyon, AZ., north end of Indian Gardens, site of proposed dam ,
April 1931
Box-folder
- AHS.PH.0856.00251 Grand Canyon, AZ., view towards site of Pumpkin House, Indian Gardens ,
April 1931
Box-folder
- AHS.PH.0856.00252 Grand Canyon, AZ., view from tower #2 towards tower #3 along trench
line into canyon , n.d.
Box-folder
- AHS.PH.0856.00253 Grand Canyon, AZ., two men hold 4" line at Indian Gardens , n.d.
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- AHS.PH.0856.00254 Grand Canyon, AZ., "cross-cut" at Indian Gardens, west spring , January 7,
1927
Box-folder
- AHS.PH.0856.00255 Grand Canyon, AZ., "cross-cut" at Indian Gardens, west spring , January 7,
1927
Box-folder
- AHS.PH.0856.00256 Grand Canyon, AZ., rock and earth dyke 1/4 mile north of Phantom Ranch
, January 1946
Box-folder
- AHS.PH.0856.00257 Grand Canyon, AZ., Cottonwood Camp, Bright Angel trail , February 1926
Box-folder
- AHS.PH.0856.00258 Grand Canyon, AZ., looking north from Indian Gardens , January 1946
Box-folder
- AHS.PH.0856.00259 Grand Canyon, AZ., Phantom Ranch, with pipeline , November 1929
Box-folder
- AHS.PH.0856.00260 Grand Canyon, AZ., site of Harvey corral on North Rim, tents in the
foreground , May 1928
Box-folder
- AHS.PH.0856.00261 Grand Canyon, AZ., open building with fireplace and smokestack
(warming house?) , n.d.
Box-folder
- AHS.PH.0856.00262 Grand Canyon, AZ., open building with fireplace and smokestack
(warming house?) , n.d.

Box-folder

AHS.PH.0856.00263 Grand Canyon, AZ., U.P. generator house, Bright Angel Creek; mule team in foreground , May 1928

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AHS.PH.0856.00264 Grand Canyon, AZ., Ribbon Falls with three people in foreground , May 1928

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AHS.PH.0856.00265 Grand Canyon, AZ., tunnel at east springs, Indian Gardens , January 7, 1927

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AHS.PH.0856.00266 Grand Canyon, AZ., women's dormitory , February 1947

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AHS.PH.0856.00267 Grand Canyon, AZ., incinerator , 1947

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AHS.PH.0856.00268 Grand Canyon, AZ., Indian Gardens pipeline , March 1932

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AHS.PH.0856.00269 Grand Canyon, AZ., Indian Gardens , February 1926

Box-folder

AHS.PH.0856.00269- Grand Canyon, AZ., McGary Coach Hydrant, with two men standing near
b by , June 1949

Box-folder

AHS.PH.0856.00270 Grand Canyon, AZ., pipeline and electric cable at top of redwall limestone formation , 1949

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AHS.PH.0856.00271 Grand Canyon, AZ., power station (house) , June 1949

Box-folder

AHS.PH.0856.00272 Grand Canyon, AZ., incinerator , 1949

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AHS.PH.0856.00273 Grand Canyon, AZ., trash burner , June 1949

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AHS.PH.0856.00274 Grand Canyon, AZ., Bright Angel Creek , June 6, 1949

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AHS.PH.0856.00275 Grand Canyon, AZ., Bright Angel Creek , June 6, 1949

Box-folder

AHS.PH.0856.00276 Grand Canyon, AZ., rest house halfway down Hermit Trail; Santa Maria Springs , February 1924

Box-folder

AHS.PH.0856.00277 Grand Canyon, AZ., Colorado River at Hermit Creek , February 1924

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AHS.PH.0856.00278 Grand Canyon, AZ., Phantom Ranch sewage line , November 1929

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AHS.PH.0856.00279 Grand Canyon, AZ., Phantom Ranch, mule train delivering wood planks , November 1929

Box-folder

AHS.PH.0856.00280 Grand Canyon, AZ., Phantom Ranch, mule train delivering wood planks ,
November 1929

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AHS.PH.0856.00281 Grand Canyon, AZ., sewage disposal plant , 1926

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AHS.PH.0856.00282 Grand Canyon, AZ., sewage disposal plant , 1926

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AHS.PH.0856.00283 Grand Canyon, AZ., sewage disposal plant , 1926

Box-folder

AHS.PH.0856.00284 Grand Canyon, AZ., sewage disposal plant; final effluent lagoons , June
1926

Box-folder

AHS.PH.0856.00285 Grand Canyon, AZ., hot water tank at incinerator , June 1949

Box-folder

AHS.PH.0856.00286 Grand Canyon, AZ., train tracks, power house, east ward view , August
1926

Box-folder

AHS.PH.0856.00287 Holbrook, AZ., sewage disposal, door mechanism , May 1938

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AHS.PH.0856.00288 Holbrook, AZ., disposal tank , May 1938

Box-folder

AHS.PH.0856.00289 Kingman, AZ., County Hospital cooling tower , July 1939

Box-folder

AHS.PH.0856.00290 Kingman, AZ., County Hospital cooling tower , July 1939

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AHS.PH.0856.00291 Kingman, AZ., County Hospital , July 1939

Box-folder

AHS.PH.0856.00292 Kingman, AZ., County Hospital, 8 cylinder freon compressor , July 1939

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AHS.PH.0856.00293 Kingman, AZ., Katherine Mine , June 1, 1923

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AHS.PH.0856.00294 Kingman, AZ., Katherine Mine, 200hp pneumatic tool engine , June 1,
1923

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AHS.PH.0856.00295 Kingman, AZ., Dorr-Imhoff tank , March 1935

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AHS.PH.0856.00296 Kingman, AZ., railroad station, water tower , July 1938

Box-folder

AHS.PH.0856.00297 Marmon (dam?) concrete slabs being poured for dam; mule drawn concrete
mixer , October 10, 1920

Box-folder

AHS.PH.0856.00298 O'Neil Springs pump house, Flagstaff, AZ. , September 1930

Box-folder

AHS.PH.0856.00299 Oak Creek Lodge, AZ. , September 1930

Box-folder

AHS.PH.0856.00300 State fish hatchery, Oak Creek Canyon, AZ. , September 1930

Box-folder

AHS.PH.0856.00301 Oak Creek Canyon, AZ. , September 1930

Box-folder

AHS.PH.0856.00302 Harry Paine, A.L. Dopmeyer, general car foreman T.C. Gingrich, Needles,
California , December 1948

Box-folder

AHS.PH.0856.00303 Cableway with towers, Nome, Alaska (postcard) , February 12, 1911

Box-folder

AHS.PH.0856.00304 Lumber company cableway with man sitting on moving log , n.d.
