

United States Department of the Interior
National Park Service

National Register of Historic Places
Continuation Sheet

Pathfinder Dam Historic District
Name of Property
Natrona, Wyoming
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Current Photographs

Name of Property: Pathfinder Dam Historic District

Vicinity: Alcova

County: Natrona

State: Wyoming

Name of Photographer: Jim Bailey, Ph.D., Bureau of Reclamation

Date of Photographs: Photos #1-43; May 29-30, 2013; Addendum (photos #44-50) September 9, 2014

Location of Original Digital Files: Bureau of Reclamation, Denver CO 80225

Number of Photographs: 50



Photo #1: Pathfinder Dam. Camera facing west.

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Photo #2: Pathfinder Dam from south abutment. Camera facing north.

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Photo #3: Pathfinder Dam, camera facing northwest. Note south access ladderway on canyon wall in the left of the photo (Feature G, contributing). Also note the elevator and associated ladder and walkways (collectively Feature B, non-contributing) leading to high-pressure gate access structure (Quonset hut) and river outlet control house in the lower right corner of the photo (both part of Feature E, non-contributing).

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Photo #4: Pathfinder Dam, south access ladderway (Feature G, contributing), and south tunnel outlet and auxiliary tunnel balanced valve control house (both elements of Feature F, non-contributing). The south tunnel outlet is the large opening visible to lower left of the ladderway; the value house is the small structure in the rock face to the right of the ladderway. Camera facing southwest.

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Photo #5: Pathfinder Dam's upstream face, and Emergency Gatehouse (Feature C, contributing) on the left. Note new concrete spillway ogee weir and apron (Feature J, non-contributing). Camera facing southeast.

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Photo #6: Emergency Gatehouse at left of view; the Fremont Canyon Power Plant Conduit Fixed Wheel Gatehouse at center of the view (Feature K, non-contributing); the facility access walkway (Feature I, non-contributing) across the upstream end of the Pathfinder spillway. The new spillway ogee weir and concrete apron (Feature J, non-contributing) are to the right of the walkway, and the natural (original) surface of the spillway is the left of the walkway. Pathfinder main quarry (Feature 7A, non-contributing) was situated in the area of the spillway seen here to the left of the walkway, and was incorporated in 1909 into the spillway channel. Camera facing south.

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Photo #7: New spillway ogee weir and concrete apron, completed in 2012, Fremont Canyon Fixed Wheel Gatehouse, and Emergency Gatehouse. Camera facing south.

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Photo #8: Pathfinder Dam Emergency Gatehouse (Feature C, non-contributing). Camera looking west.

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Photo #9: In the foreground, a section of the spillway and spillway training wall (Feature H, contributing). Behind, from left are: the Sluice Gatehouse (Feature D, non-contributing) with the Emergency Gatehouse behind it; the north cableway tower and associated concrete anchor pad and connecting cable (Feature M, contributing); and the Fixed Wheel Gatehouse. Camera facing northwest.

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Photo #10: Canyon floor below Pathfinder Dam, north side of river, showing the access structures to the high-pressure gates (Quonset hut to left) and the river outlet works control house (right in canyon wall), and the outlet for the 60-inch Jet-Flow valve (all part of Feature E, non-contributing). Camera facing downward and northwest.

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Photo #11: View from above of (from left) the dam's downstream face, the elevator track, walkway, and the high-pressure gate control (Quonset hut) access structure. Camera facing down and northeast.

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Photo #12: Elevator machine hoist house and Kimball elevator (Feature B, non-contributing).
Camera facing southwest.

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Photo #13: View of Pathfinder facility at the dam crest elevation. From the left: the north cableway tower; Fremont Canyon Power Plant Fixed Wheel Gatehouse; Sluice Gatehouse; Emergency Gatehouse; and south tramway tower. Upper face of the new spillway ogee weir in foreground. Camera facing southeast.

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Photo #14: Pathfinder Dam crest, note safety fencing on right and parapet wall on left, and elevator machine house. Sluice Gatehouse and north cableway tower are immediately to the right of elevator machine house. Camera facing north.

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Photo #15: From left, LeTourneau electric deck crane (Feature L, non-contributing), Sluice Gatehouse, and north cableway tower. The spillway training wall extends from the right foreground over to connect with the dam's left (north) abutment in the center of the view. Camera facing southwest.

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Photo #16: From left, dam crest, spillway training wall, elevator machine house, north cableway tower, Sluice Gatehouse, and Emergency Gatehouse. “Natural” spillway in foreground. The main quarry is out of view to the left. Camera facing south-southwest.

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Photo #17: South cableway tower and cableway powerhouse (part of Feature M and Feature N, contributing). Camera facing east. See Photo #47 for opposite view.

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Photo #18: Foundations (Feature O, non-contributing) on south side of canyon above the south access ladderway. Camera facing north. See historic photo #22 to view the buildings that stood here in 1940.

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Photo #19: South cableway tower , carriage assembly, and cableway powerhouse. Note U-bolt set into granite during dam construction, likely used as a crane or gaff guy wire anchor. Camera facing southwest.

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Photo #20: Long view of 1920 cableway system. From the left, cableway powerhouse, south tower, carriage cable and bucket hook system, and north tower. (Features M and N, contributing). Camera facing northwest.

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Photo #21: Pathfinder Dike (Element 2, contributing). Note hand placed granite rock protective facing on the upstream (right) side of the dike. The rubble rock visible on the downstream face is part of the earthen/rock matrix of the dike embankment. See historic photo #20 showing placement of the protective rock in 1910. Camera facing south from north end of the dike.

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Photo #22: Pathfinder Dike. Camera facing north from south end of dike.

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Photo #23: Pathfinder dam tender complex (Element 3, two contributing buildings). Camera facing northwest.

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Photo #24: Dam tender's house, main (south) elevation. Camera facing northwest.

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Photo #25: Pathfinder dam tender complex, house and barn west elevations. Camera facing east.

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Photo #26: Dam tender house east elevation. Camera facing west.

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Photo #27: Pathfinder dam tender complex barn, south and west elevations. Camera facing northeast.

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Photo #28: Pathfinder dam tender complex barn, north and east elevations. Note the spillway and Emergency and Sluice Gatehouses visible to the left of barn. Camera facing southwest.

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Photo #29: Secondary quarry (Element 7B, contributing site), with dam in background. Camera facing southeast.

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Photo #30: Secondary quarry. Camera facing east-northeast.

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Photo #31: Remnants of the main quarry (Element 7A, non-contributing), located adjacent to the spillway. Note the concrete dike to help direct water flow. Camera facing north.

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Photo #32: New spillway concrete ogee weir and apron (left, Feature J, non-contributing), facility access walkway (center, Feature I, non-contributing), and upper end of natural section of Pathfinder spillway (right, Feature H, contributing). Note the U-bolt set into the spillway bedrock. Camera facing north.

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Photo #33: Footbridge (outside district boundaries) across the North Platte River below Pathfinder Dam. Reconstructed circa 2000. A footbridge has been located at or near this location since the dam construction period. Camera facing east from dam crest. (Photo included for illustration purposes only)

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Photo #34: Stream gage station, south and west elevations (Element 6, contributing). Camera facing northeast.

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Photo #35: Stream gage station, east and south elevations. Camera facing northwest. See Photo #49 for north elevation view.

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Photo #36: Engineer’s Camp (non-contiguous area, Element 5, contributing to the PDHD), overview looking south toward the river from the hilltop area that holds the principal concentration of camp features. Feature H, foundation, in foreground (see Site Drawing 6). Camera facing south.

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Photo #37: Engineer's Camp, Feature G in foreground. The view shows the ordered alignment of foundations that still convey the layout of the principal area of the camp. Note also that the foundations indicate structural characteristics of the vanished buildings. Camera facing southwest.

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Photo #38: Engineer's Camp, Feature C (concrete foundation) and associated concrete structure Feature B, north and west elevations. Camera facing east-southeast.

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Photo #39: Engineer's Camp Feature B, south and east elevations. Camera facing northwest.

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Photo #40: Interior of Feature B, view of North Platte River out of the window. Camera facing southeast.

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Photo #41: Cistern (Feature A) at Engineer's Camp. Camera facing south.

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Photo #42: Engineer's Camp, stone and mortar foundation (Feature I) in a secondary area of the camp. Camera facing southwest.

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Photo #43: Pathfinder facility and Pathfinder Reservoir overview. Camera facing west.

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ADDENDUM (September 9, 2014)



Photo #44: Upstream face of Pathfinder Dam from canyon floor. Camera facing west.

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Photo #45: Abandoned concrete access ladderway (Feature G, contributing) from canyon floor. Note rebar used as ladder rungs. Camera facing south.

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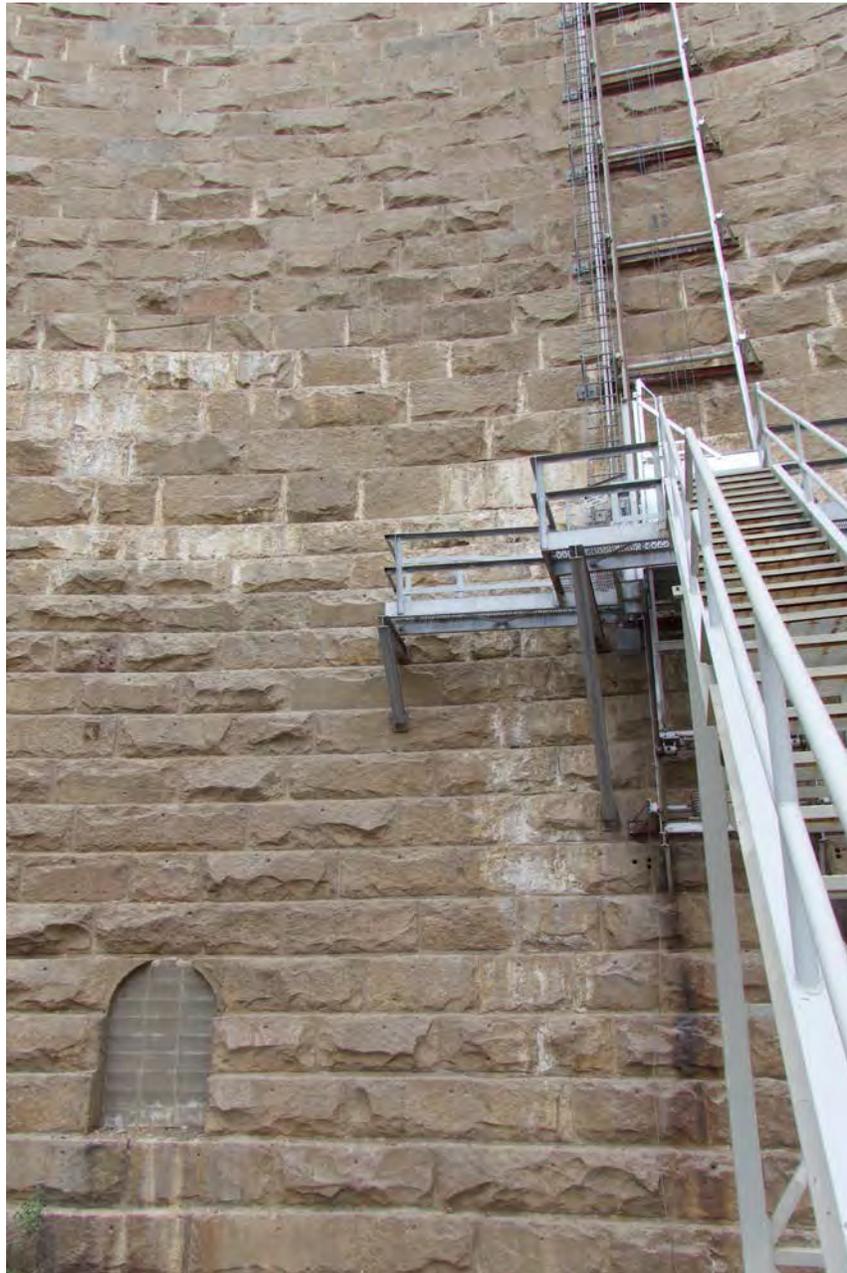


Photo #46: Stonework detail and plugged access gallery, downstream face Pathfinder Dam. Camera facing west.

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Photo #47: Cableway powerhouse (Feature N, contributing) south elevation. In foreground, guy and tension wire anchors for south cableway tower. Camera facing south.

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Photo #48: Detail of cableway bucket, hook, and carriage assembly (contributing). Camera facing west.

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Photo #49: North and east elevations, Stream Gage Station instrument house and concrete stilling well (Element 6, contributing). Camera facing southwest.

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Photo #50: Last known remnants of rail system (Feature R, contributing structure) used to haul blocks from the quarries to the dam. It is located next to the dam's upstream face just below the Emergency Gatehouse. Camera facing down and to the west.

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Historic Photos

(all photos courtesy of the Bureau of Reclamation; credit Reclamation upon use of these photographs)

Name of Property: Pathfinder Dam Historic District

Vicinity: Alcova

County: Natrona

State: Wyoming

Name of Photographer: Unknown, various U.S. Reclamation Service/ Bureau of Reclamation

Date of Photographs: 1905 through 1960s

Location of Original Digital Files: Bureau of Reclamation, Denver CO 80225

Number of Photographs: 23



Historic Photo #1, July 16, 1907, Pathfinder Dam, 22-horse freighter hauling cement and other construction materials from rail head at Casper to dam site, 47 miles distant.

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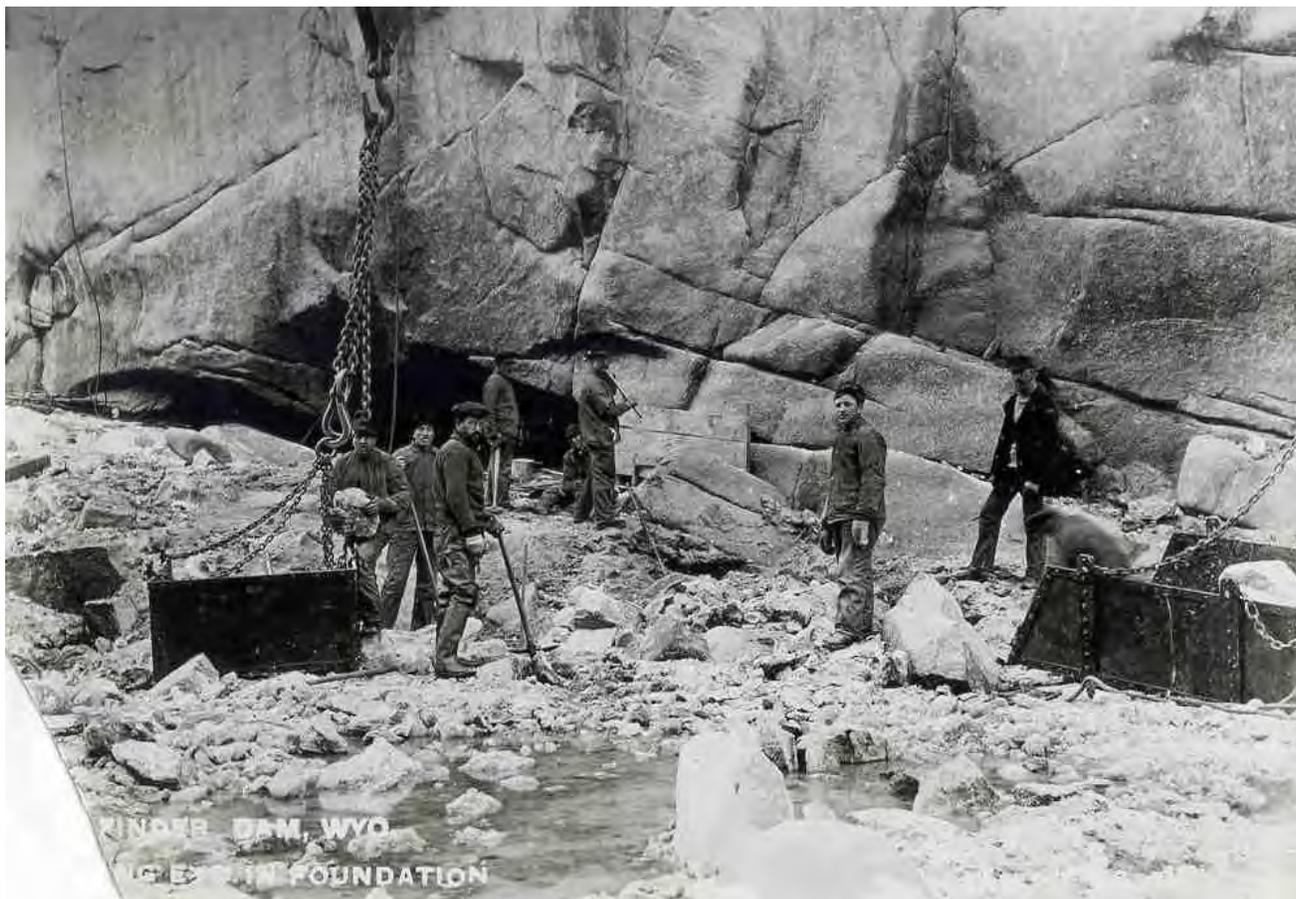
Historic Photo #2: Pathfinder Damsite. This view was taken August 17, 1905 from a point a short distance below the damsite. It shows the river at low water. At the foot of the canyon wall on the right of the picture is the outlet of the north tunnel. The spoil in the channel further up the stream shows the location of the north tunnel intake. The location of the shaft is shown by the waste material near the top of the canyon wall.

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Historic Photo #3: View taken January 23, 1906, and shows starting of excavation for the dam’s foundation. All loose material was removed and the top of the rock removed to a sound bedrock foundation only 10 feet below the ground surface.

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Historic Photo #4: January 31, 1906, Pathfinder Dam site looking upstream.

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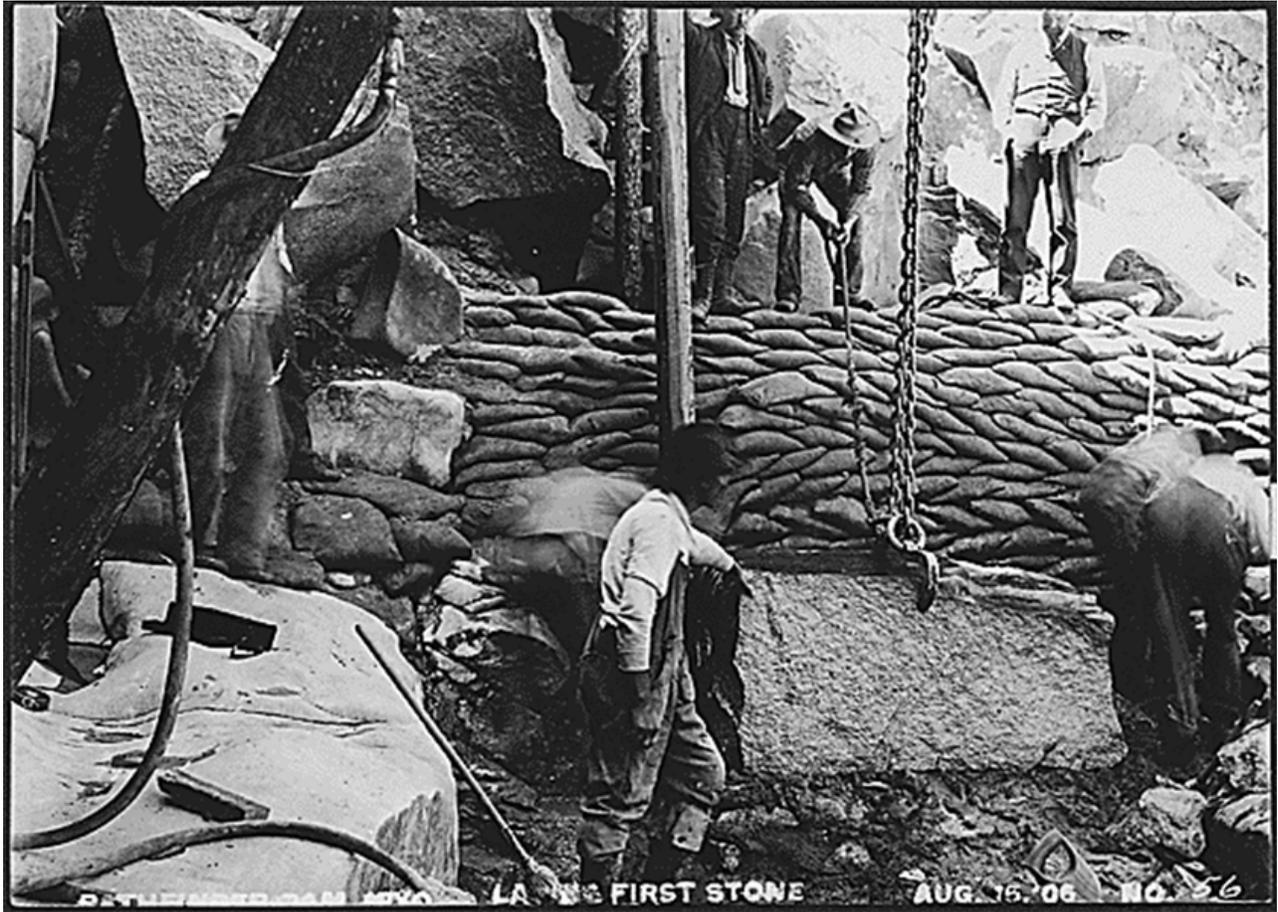
Historic Photo #5: Pathfinder Dam diversion flume, February 6, 1906

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Historic Photo #6: Pathfinder Dam, laying the first stone, August 15, 1906

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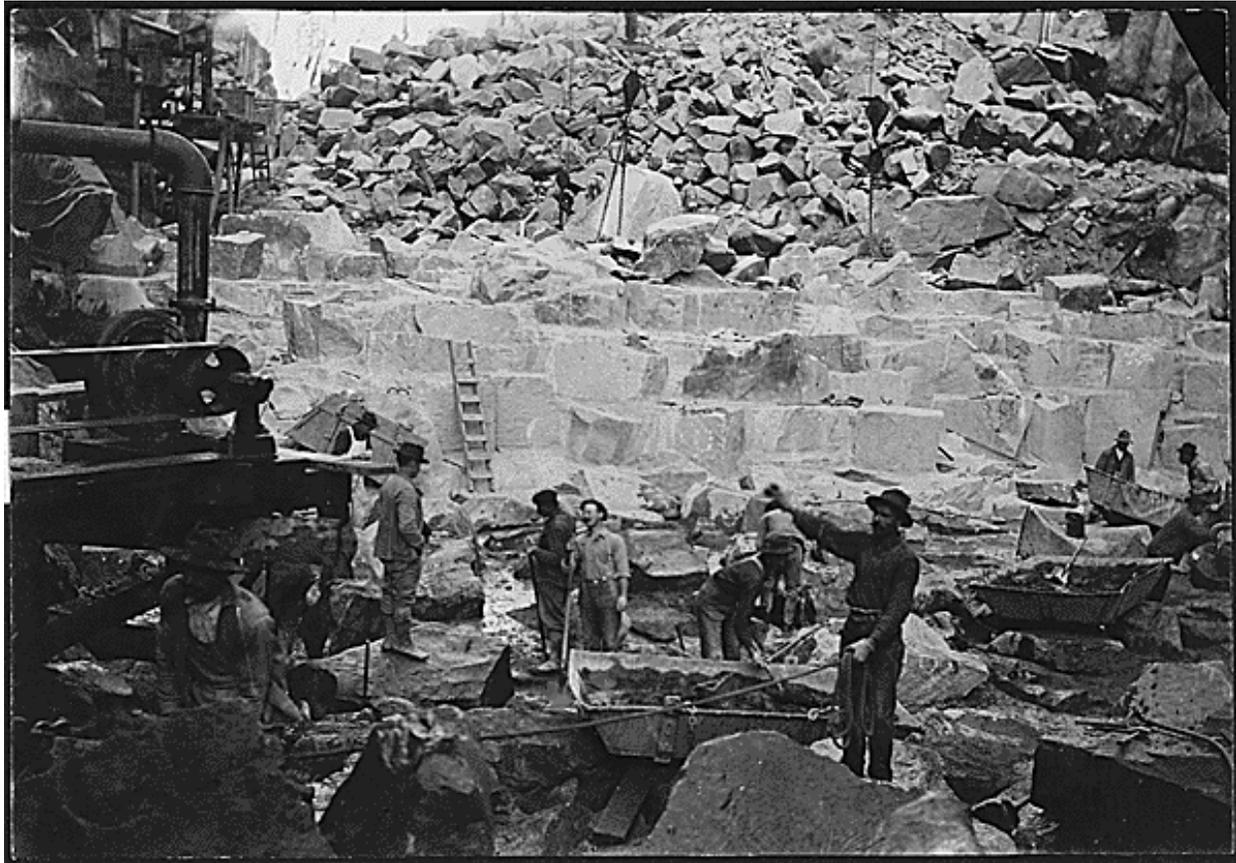
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Historic Photo #7: October 1, 1906, Pathfinder Dam, progress of masonry.

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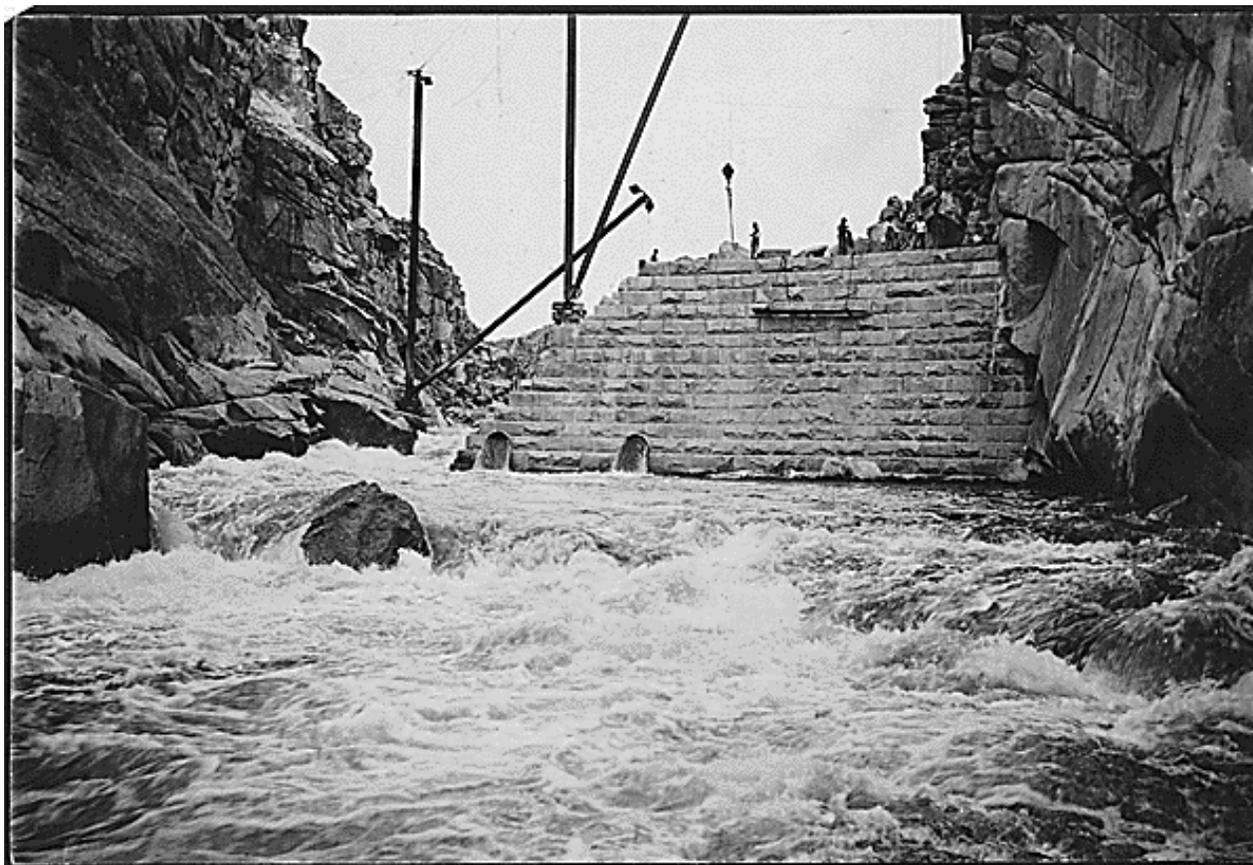
Historic Photo #8: June 8, 1907, Pathfinder Dam, Downstream Face During Flood

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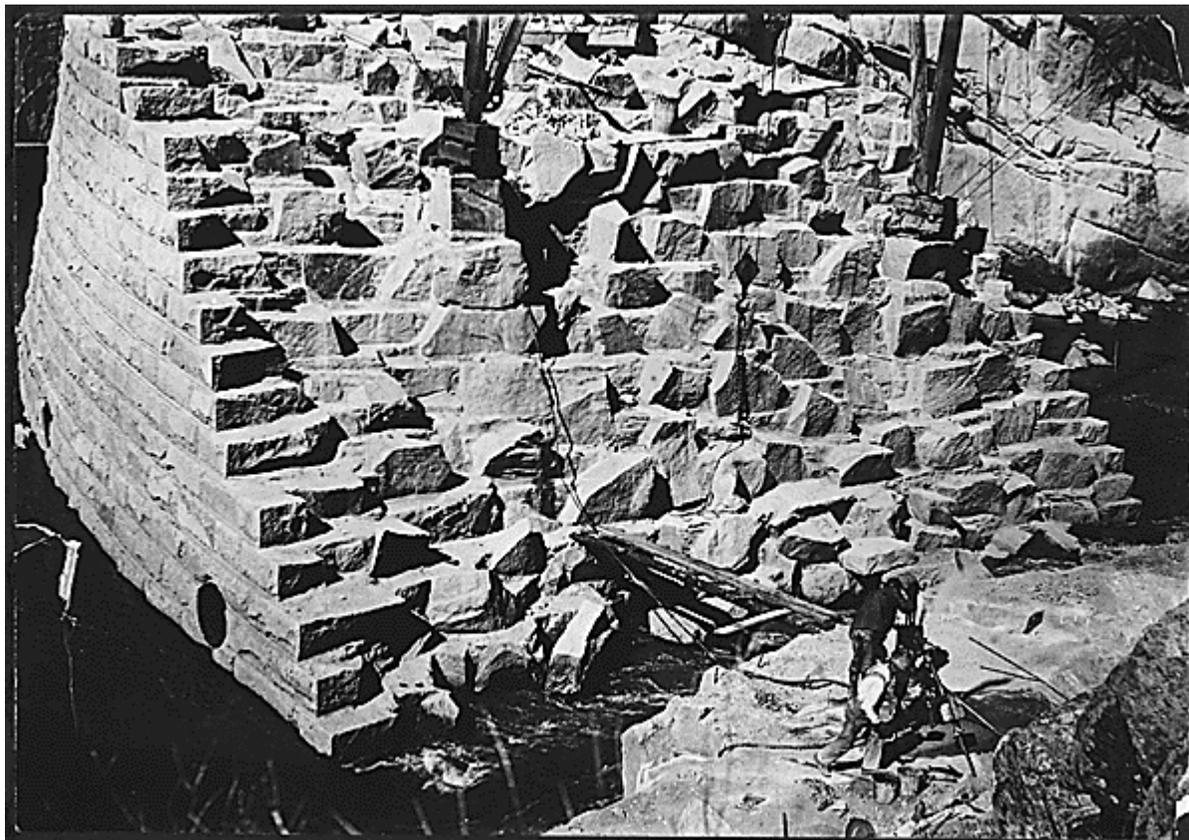
Historic Photo #9: July 26, 1907, Pathfinder Dam, downstream face.

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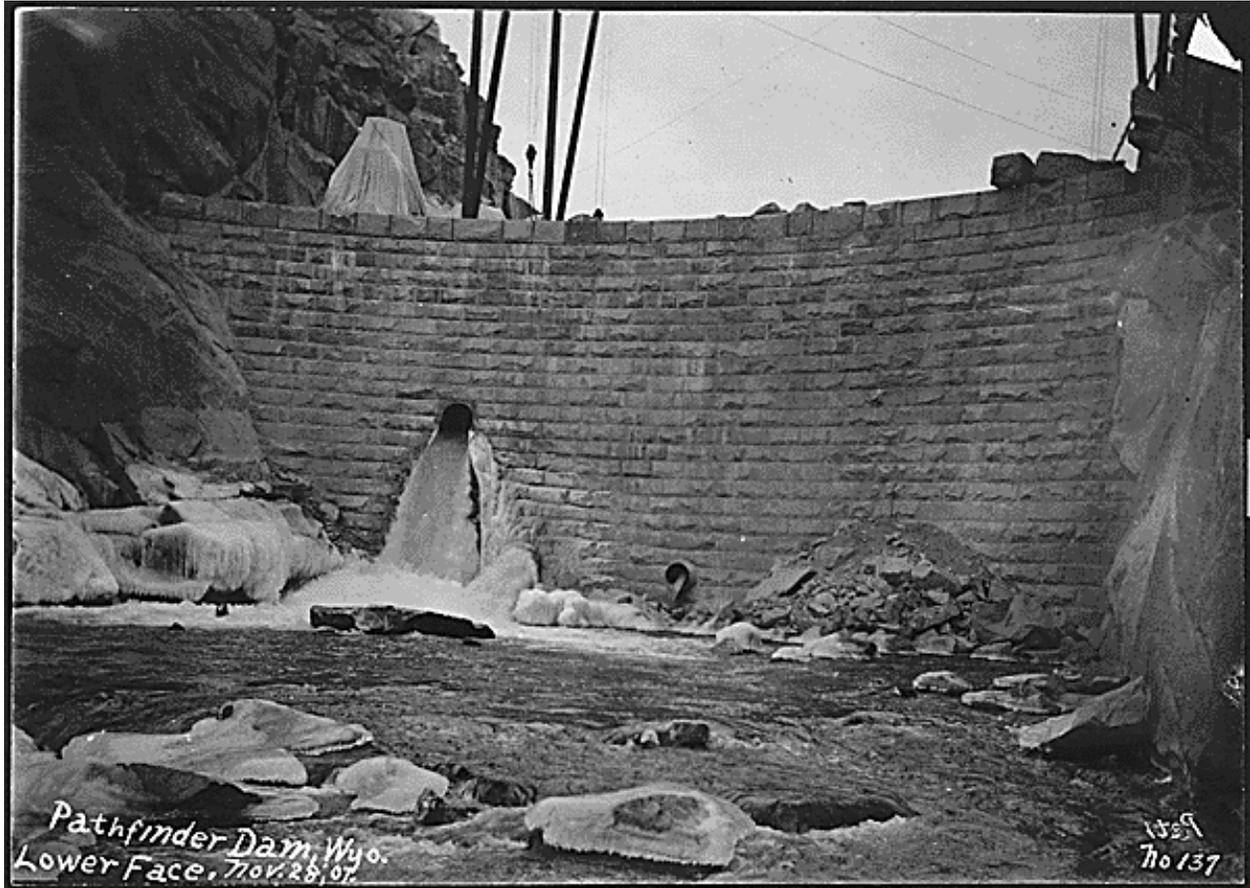
Historic Photo #10: August 9, 1907, rock in masonry, north side of notch. View shows the internal cyclopean masonry structure of the dam and the finished stone façade.

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Historic Photo #11: November 29, 1907, Pathfinder Dam, downstream face.

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Historic Photo #13 1908, Pathfinder Dam, three-foot face stones in storage

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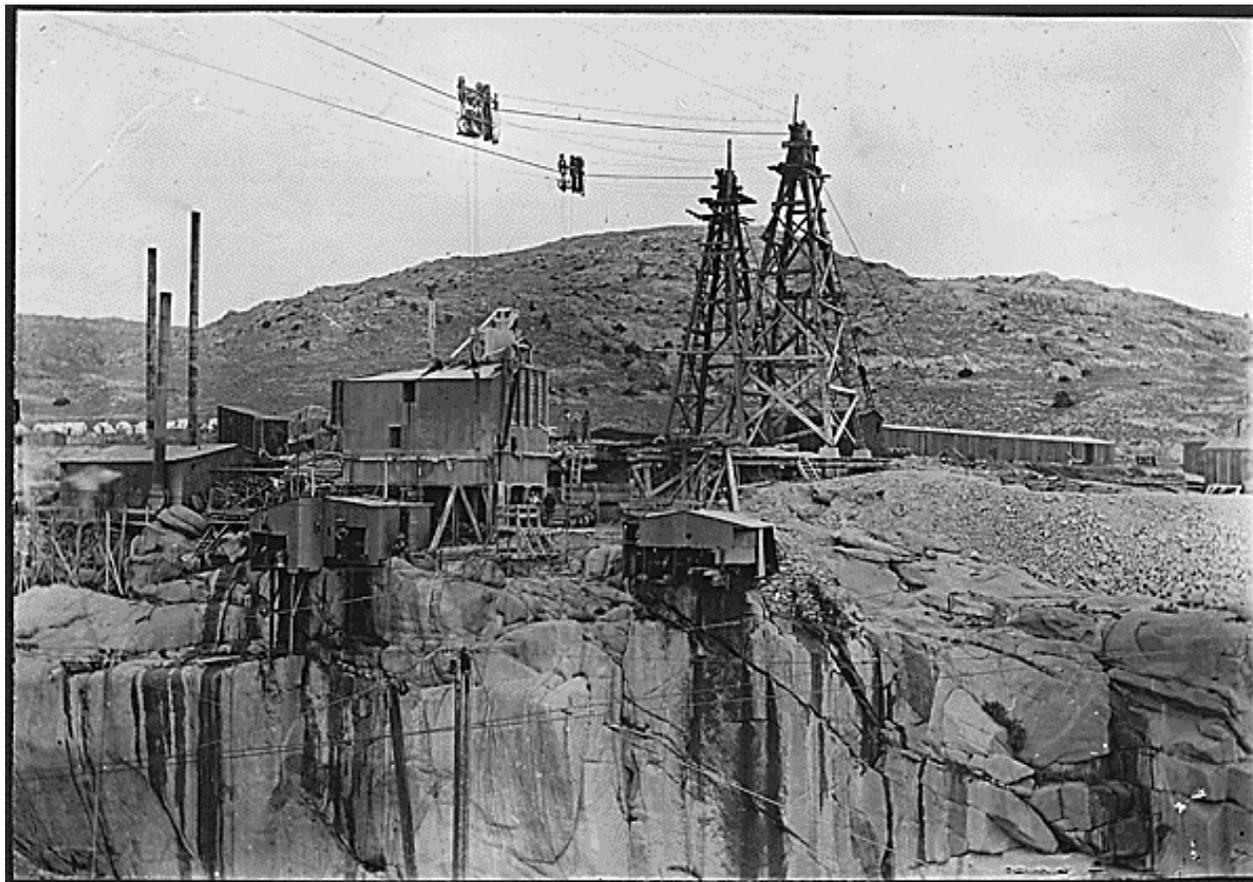
Historic Photo #13: 1908, Pathfinder Dam upstream face. North towers of original two cableway systems shown. Note exposed access ladder on left hand side of canyon, precursor to the enclosed ladderway built a few years later. Emergency Gatehouse under construction (structure immediately next to dam).

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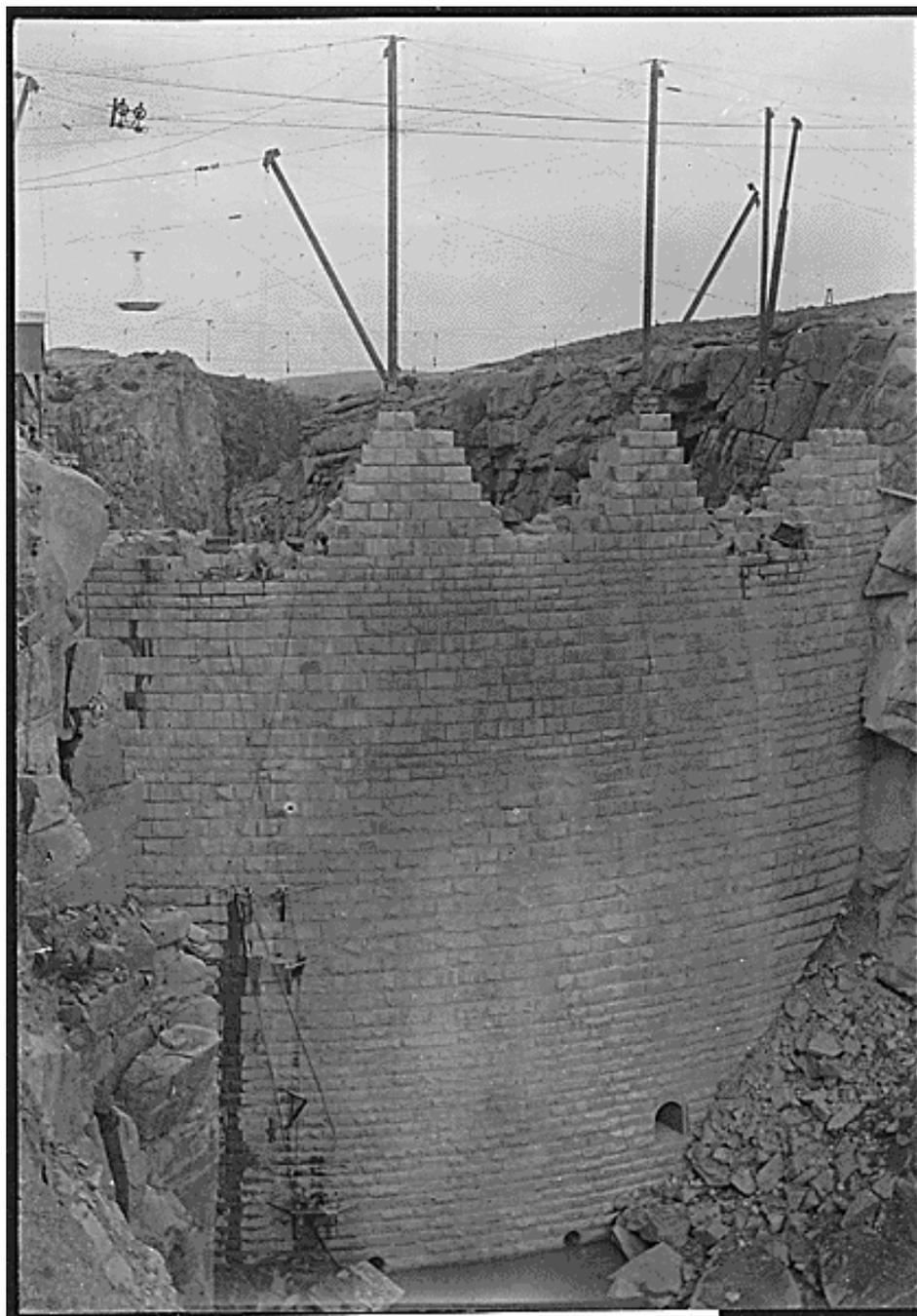
Historic Photo #14: July 12, 1908, Pathfinder Dam, contractor's plant on north side of canyon

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Historic Photo #15: Septemeber 27, 1908, Pathfinder Dam, upstream face

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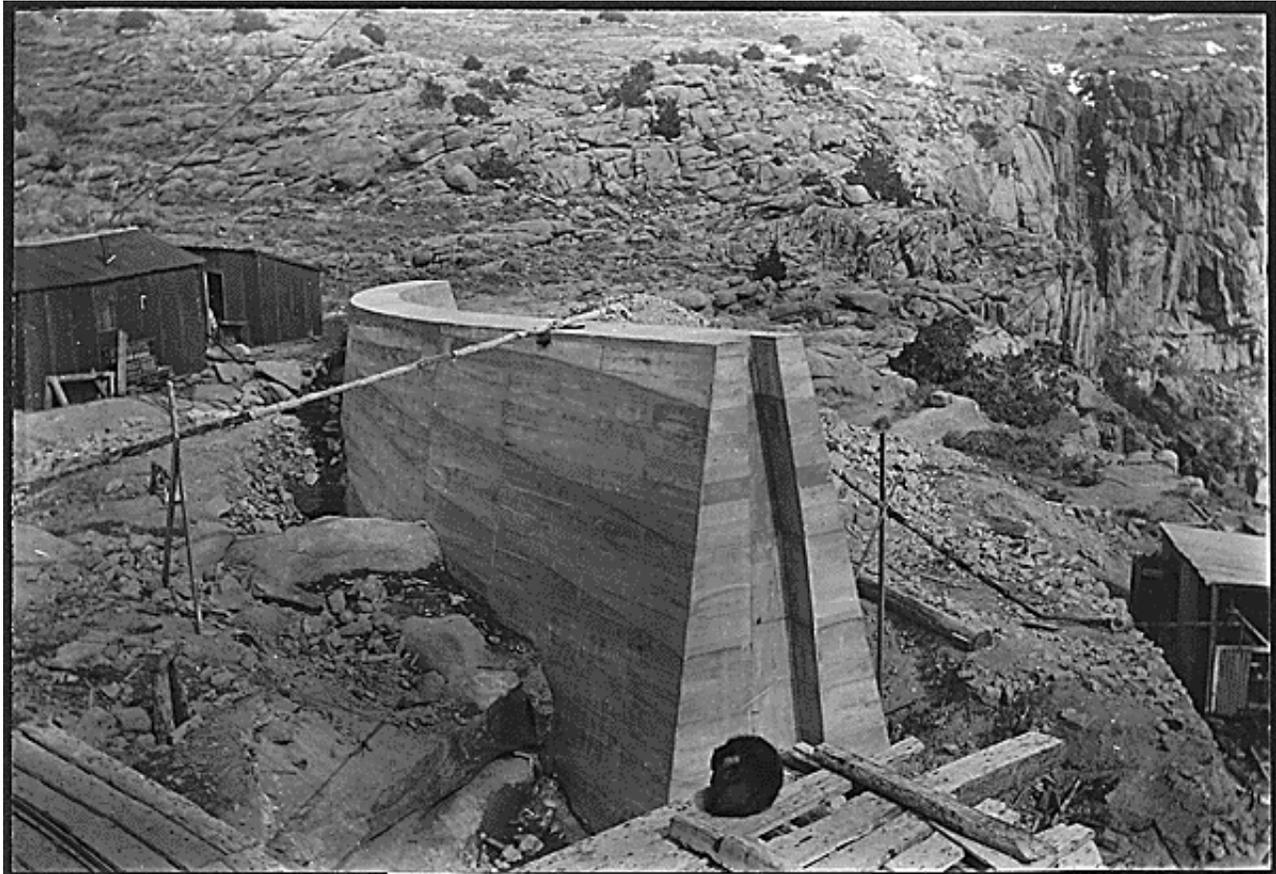
Historic Photo #16: February 5, 1909, grillage at entrance to (north) Pathfinder Tunnel

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Historic Photo #17: March 20, 1909, Pathfinder Dam, spillway training wall

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Historic Photo #18: October 19, 1909, Pathfinder Dam, upstream face. Old cableway system north tower in upper right corner

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Historic Photo #19: Pathfinder Dam, 1909, showing river outflow from the dam conduit outlet. Note that one of the two original cableway systems remains in use. The Emergency Gatehouse roof is visible at right.

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Historic Photo #20: August 8, 1910, Pathfinder Dike, showing stone paving on upstream face.

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Historic Photo #21: September 1, 1906, Pathfinder Dam gatekeeper's (dam tender) house

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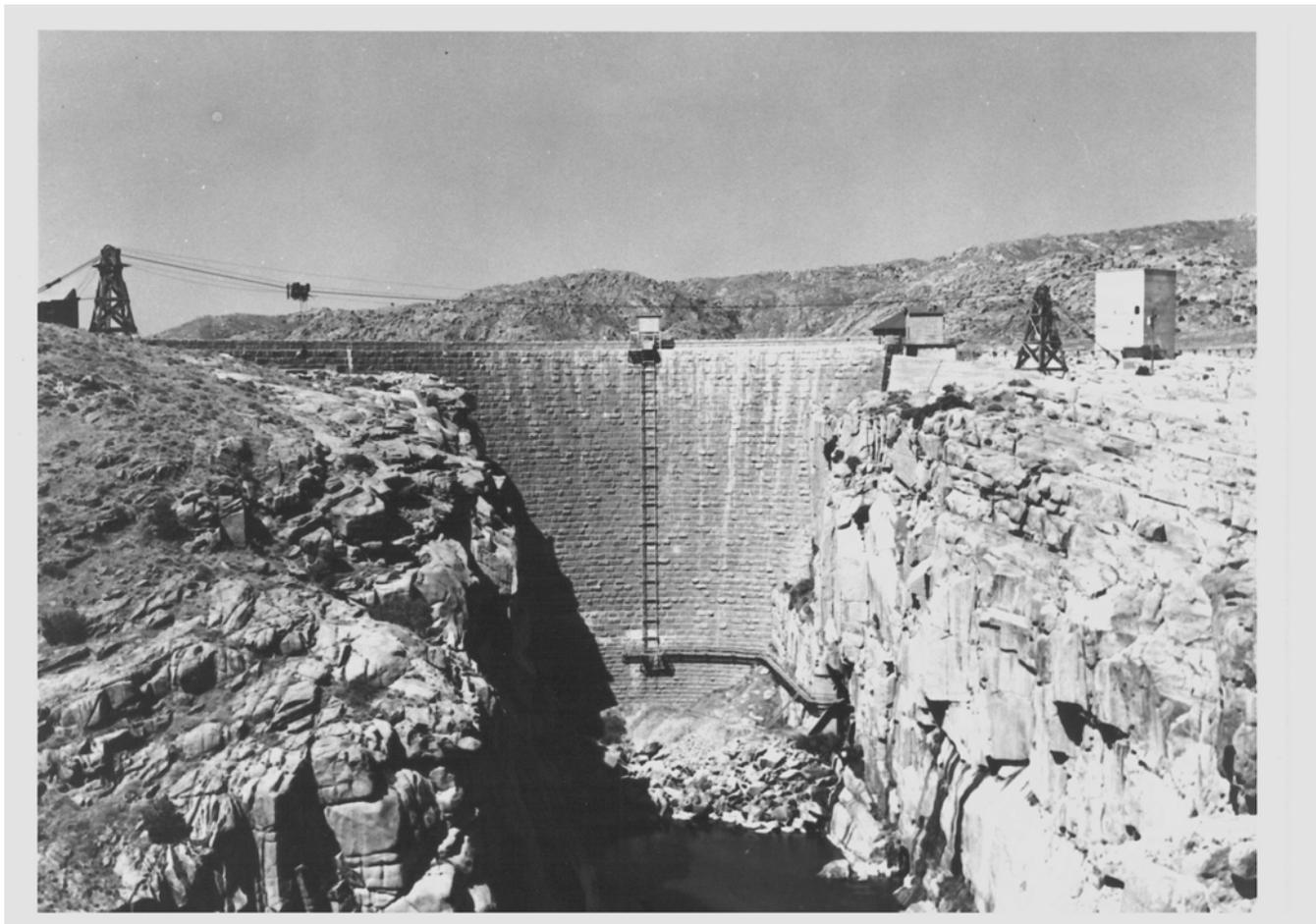
Historic Photo #22: Pathfinder Dam, 1940, view looking west at the dam's downstream face. Note the 1920 cableway (extant today), walkway from dam gallery to south outlet tunnel valve house (no longer extant) and south access ladderway (largely extant), and buildings (no longer extant) at the south abutment. Also note Sluice Gatehouse (upper right, extant) still have the gate operating superstructure that was removed during the 1990s north tunnel outlet works renovations.

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Historic Photo #23: Pathfinder Dam, 1960s. Note Fremont Canyon Power Conduit Fixed Wheel Gatehouse is now present at far upper right, and a walkway has been constructed from elevator to the High-pressure Gatehouse and river outlet works control structure on north side of the canyon.