

High Mountain Dams in Upalco Unit,
Five Point Lake Dam
Ashley National Forest
12.0 miles northwest of Swift Creek Campground
Mountain Home Vicinity
Duchesne County
Utah

HAER No. UT-42-H

HAER
UTAH,
7-MOHO.V,
I-H-

PHOTOGRAPHS

WRITTEN HISTORIC AND DESCRIPTIVE DATA

Historic American Engineering Record
Rocky Mountain Regional Office
National Park Service
U.S. Department of the Interior
P.O. Box 25287
Denver, Colorado 80537

HISTORIC AMERICAN ENGINEERING RECORD

HAER
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1-H-

High Mountain Dams in Upalco Unit, Five Point Lake Dam

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Location: 12.0 miles northwest of Swift Creek Campground, Ashley National Forest
Mountain Home vicinity, Duchesne County, Utah

UTM: 12.544330.4507440
Quad: Garfield Basin

Date of Construction: 1929

Builder/Designer: Farmers Irrigation Company

Present Owner: Moon Lake Water Users Association, Roosevelt, Utah 84066

Original Use: Dam

Present Use: Dam

Significance: Five Point Lake is the largest reservoir body of water in the Yellowstone drainage, and with a crest length of 970 feet, Five Point Lake Dam is the second longest of the earthen dams in the Upalco Unit. A representative earth-fill structure with stone riprap facing, the dam is additionally notable because of the original construction equipment left on-site. Essentially unaltered and well-preserved, the Five Point Lake Dam, with its natural stone spillway, is one of the most picturesque in the unit.

Inventoried by: Clayton Fraser and James Jurale
Fraserdesign
Loveland, Colorado

October 19, 1985

High Mountain Dams in Upalco Unit,
Kidney Lake Dam
HAER No. UT-42-H
(Page 2)

HISTORICAL INFORMATION

On February 2, 1927, special use permits were issued by the National Forest Service to the Farmers Irrigation Company for the purpose of water storage on Five Point and Superior lakes, to high mountain lakes in the Yellowstone River drainage. On Five Point Lake, the company built two dams, a long V-shaped primary structure with a steel pipe outlet and a much smaller secondary dike in 1929. The dams are earth fill, with sloped and riprapped upstream and downstream faces. The spillway is a natural rock saddle 300 feet south of the main outlet, with a concrete crest poured to minimize erosion. With a surface area of over 82 acres, Five Point is the largest reservoir in the Yellowstone drainage. With an aggregate crest length of almost 1,000 feet, the two dams in the lake's southeast corner constitute the longest retention structure in the basin. It is proposed to excavate a spillway through the dam and block the existing outlet to lower the water to within two feet of its natural level.

ARCHITECTURAL INFORMATION

Dam length: 970 feet
Dam height: 14 feet
Dam width: 10 feet
Construct: Earth fill dam with stone riprap facing
Lake size: 82.6 acres; 607 acre-foot maximum capacity; 11 vertical foot maximum drawdown
Outlet: Gated steel pipe

BIOGRAPHICAL INFORMATION

"Preliminary Engineering Report: Stabilization of High Mountain Lakes, Upalco Unit," National Forest Service Report, 1970, page 34.

William F. Gettleman, "Report on the Lakes and Reservoir of the Headwaters of the Uintah, Whiterocks and Lakefork Rivers, Uintah Project, Utah; Feb. 1932," page. 23.

Five Point Lake Reservoir File #5157, Roosevelt District Ranger Office, Ashley National Forest,

Field inspection by Robert Righter, July 27, 1985.

For additional information, see Irrigation Canals in the Uinta Basin, HAER No. UT-30.

High Mountain Dams in Upalco Unit,
Five Point Lake Dam
HAER No. UT-42-H
(Page 3)

