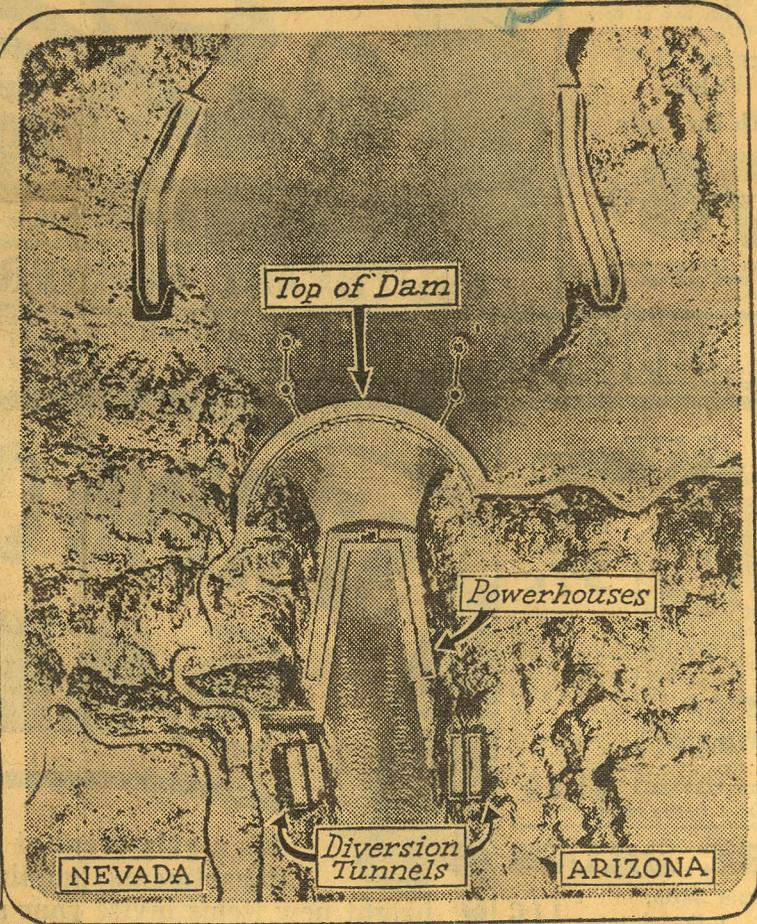
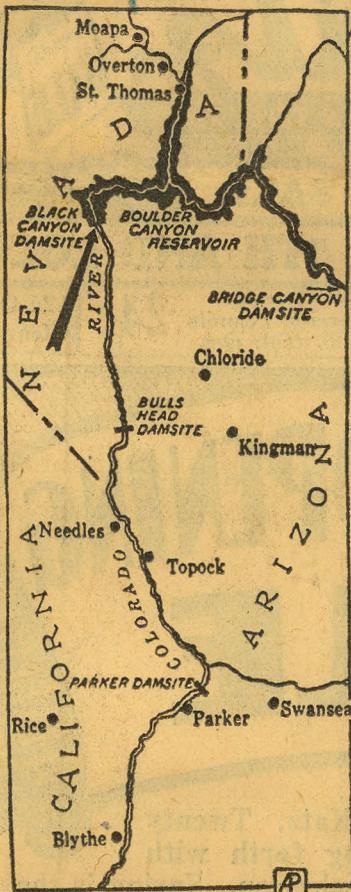


\$48,000,000 to Build Hoover Dam



How the huge dam in Boulder canyon will look from the air when completed is shown at right. The dam's location, on the Colorado river between Nevada and Arizona, is shown by map. Associated Press picture and map.

Six Companies, Inc., Faces the Task in Colorado.

WASHINGTON, D. C.—Given seven years of time and four million dollars, how many of you Lilliputians think you could pour 4,500,000 cubic yards of concrete and come out of the job with a Boulder dam moulded exactly to the specifications in which the government wants it moulded?

This probably will be the task of Six Companies, Inc., company, one of the largest construction companies of the west, which has submitted the lowest of five bids for the greatest single contract ever granted by the government, the Boulder canyon dam project, to be known as Hoover dam.

Estimate Million Less.

Bids on the gigantic power, flood control, and irrigation project were opened by the bureau of reclamation March 4. The estimate of \$48,890,995.50 presented by the Six Companies corporation is a million dollars less than the estimated cost of the dam prepared by government engineers, and it is expected that this figure will be accepted.

It was further predicted that actual work on the project would

be started by April 15.

Concrete Is Task.

Of all phases of construction, just one aspect of it—the cooling of millions of pounds of concrete—is to be a mammoth job in itself.

One hundred and fifty miles of two inch pipe will be needed to safeguard the placing of the 3,600,000 cubic yards of concrete in the dam, which will rise 737 feet above the Colorado river's bed.

Proper Temperature.

It will be necessary to keep the concrete mass at the proper temperature in laying the base for the dam, which will be 650 feet thick at the bottom and 45 feet at the top.

Measuring 1,180 feet between the Nevada and Arizona sides of the river, the dam will back up water 115 miles along the channel to form a lake 227 square miles in area.

Heat Specification.

Specifications for the project require that the concrete be kept at not less than 40 degrees nor more than 72 degrees—in a country where the average temperature ranges from 20 to 120 degrees.

Great copper strips through the dam will permit expansion

and contraction to meet temperature fluctuations.

50 Million Cost.

The dam proper, to be the largest in the country, will cost approximately 50 million dollars. In addition, there also will be a \$38,000,000 power house and generating system, which include six power units on each side, great tunnels and two concrete intake towers upstream, each approximately 50 feet in diameter.

The intake towers will be connected with the dam by massive steel bridges, about 115 feet long. The power house, which will be U-shaped concrete structure, will have a wing on each side of the river and extend for 500 feet along the banks.

Yards of Concrete.

Approximately 4,500,000 cubic yards of concrete will be used in completing the entire project.

Inspection of the dam will be possible through galleries within it, to be reached by an elevator shaft extending to within 50 feet of the bottom.

Workers on the project will live in the model town to be built by the government seven miles away.