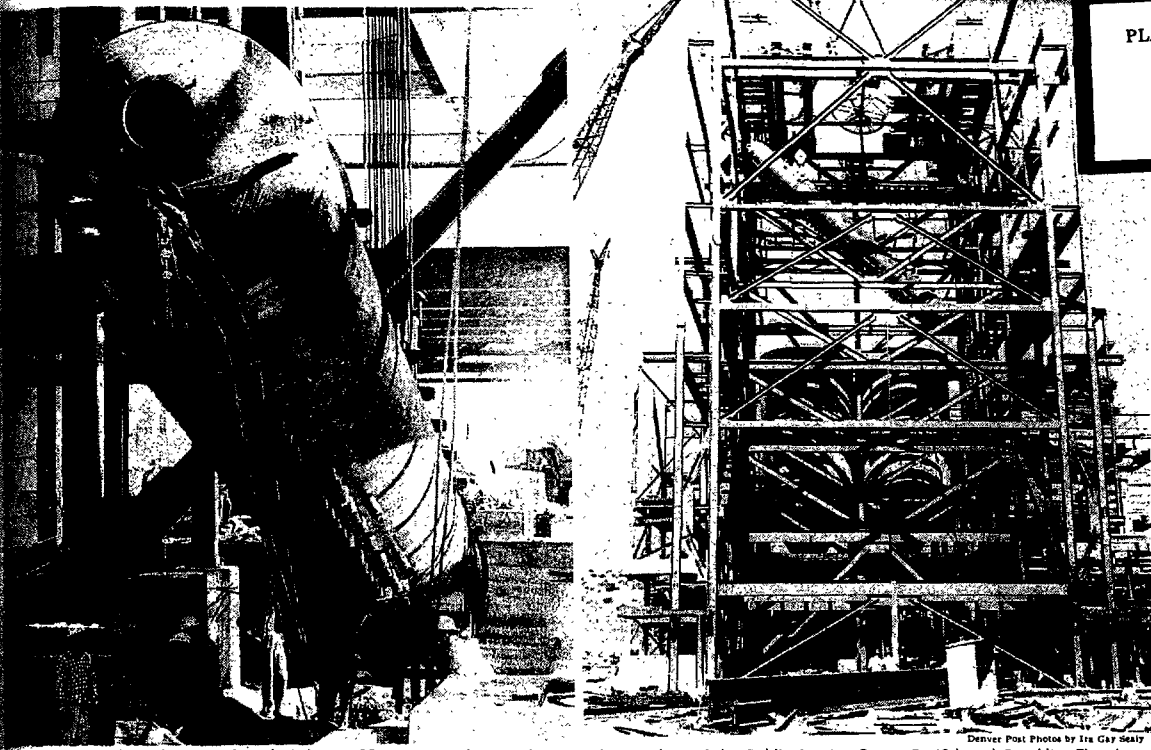


# Steam Boiler's Tilted for 120-Foot 'Flight'

405

PLAINTIFF'S EXHIBIT

BAB-369



Tilted to pass through maze of steel girders, a 93-ton steam drum makes a 120-foot ascent to the top of framework at the new Cherokee steam-

electric plant of the Public Service Co. at E. 62d and Franklin. The drum is 53 feet long and its steel walls are 4 1/4 inches thick.

Denver Post Photos by Ira Gay Seely

## 93.2 Ton Steel Drum Hoisted Above Plant

Smoothly and easily, a gigantic steel drum more than 53 feet long and weighing 93.2 tons was hoisted 120 feet into the air Thursday at the new Cherokee steam electric plant of the Public Service Co., E. 62d Ave. and Franklin St.

The massive steel barrel, which is the main steam drum atop the boiler of the first 100,000 kilowatt unit of the new power plant, rose clear of the ground at 8:15 a. m. and shortly after 9:15 a. m. it was swinging securely at the top of the 12-story structural steel framework already in place to support it.

### 19 MILES OF TUBING

To get the long drum up through a maze of girders, it had to be tilted sharply.

Mounted on the ground near the base of the structure was a two-drum hoist powered by a 150-horsepower electric motor that wound up the 1-inch steel cable. This cable was doubled back 13 times through the tackle blocks to multiply the force, so the huge burden traveled up very slowly.

This steam drum will be connected to 19 miles of steel boiler tubing, varying from 2 to 3 inches in diameter. It will hold superheated steam at a pressure of 1,800 pounds per square inch and a temperature of 1,000 degrees Fahrenheit.

"Believe it or not," said Ben A. Snow, construction superintendent in charge of the erection job for Ebasco Services, Inc., "the steam entering the drum from the vertical boiler pipes will be red hot—if you could see it through the walls of the drum."

The walls of the drum, from which the steam will flow downward to feed the generator turbine, are 4 1/4 inches thick. Yet every square inch of those walls has been X-rayed to make sure

there are no flaws that would burst under load.

The drum Thursday continued to hang by the hoist cables while enormous horseshoe-shaped steel slings were fitted under its ends to cradle the weight permanently.

The boiler pipes also will hang from the top of the structure. It takes 620 tons of structural steel to support the boiler alone. Snow said Thursday, and only 600 tons of steel for the skeleton of the rest of the plant. The boiler will eat up 1,375 tons of coal a day, after the plant starts operation about next July 1.

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