

INVENT PLAN TO COOL CONCRETE IN BOULDER DAM

Engineers Devise Unique Refrigeration System for Dissipating Heat Generated in Huge Pile

BOULDER DAM, Las Vegas, Nev.—(UP)—Although many innovations in engineering and construction have been made on the Boulder Dam project, bureau of reclamation officials say the scheme of artificially dissipating the chemical heat generated by the setting of the 3,028,000 cubic yards of concrete in the dam structure tops them all.

Experts agree that without artificial cooling it would require 100 years for the mass of concrete to reach the ultimate mean temperature.

To accomplish this artificial cooling it was decided to pour the concrete for the dam in separate blocks which could be keyed together. Scales of thermometers were placed at various points within the dam to record temperatures inside the structure.

The concrete is being cooled through a system of one-inch tubes, placed in horizontal layers five feet apart in the concrete and through which refrigerated water is circulated.

When the main structure of the dam is completed, there will be approximately 3,000,000 feet, or 568 miles, of one-inch pipe running through the concrete.

The cooling plant is capable of producing 2100 gallons of water per minute. Refrigeration is accomplished by an ammonia compression system not unlike that used in the manufacture of ice.

Before this refrigerated water is run through the pipes, pre-cooling water is circulated at the rate of 6000 gallons per minute.

Lines between the plant and the dam for refrigerated water are covered with two-inch cork insulation to prevent variation of the temperature of the water in summer and winter.

Temperatures are taken regularly to check the progress of the cooling. As soon as cooling in any particular loop of pipes has been completed, circulation through the loop is stopped.

When the cooling has been completed in a 50-foot grouting lift, grouting of contraction joints is begun. The eight-foot slot is filled with concrete before grouting.

This operation, combining cooling and grouting, makes the dam a unified body of concrete with all temperature strains provided for.

Should the mass of concrete which makes up the dam be allowed to cool naturally, it was said, cracks would result several years after completion of the structure.

Veto Affects Vet



Beryl McHam (above), 35-year-old Oklahoma war veteran, was denied an honorable discharge from the army by President Roosevelt's first veto—on a bill which would have given McHam the benefits of an honorably discharged soldier. McHam was dishonorably discharged after a fist fight, and deserted the army after a subsequent re-enlistment. (Associated Press Photo)

LEIUT. RIBBLE IN NAVY FOR THREE YEARS ERE PACIFIC OCEAN SIGHTED

Although he has been a medical officer with the United States navy for the past three years, Lieutenant

George B. Ribble, physician on duty at the Carberry Creek CCC camp yesterday saw the ocean for the first time in his life. He explained that the three C's in southern Oregon were all he had seen before his trip to Brookings as the guest of M. J. and Mrs. James R. Bibbighaus.

Coming to Oregon from St. Paul, Minn., to take up his duties with the Civilian Conservation corps, Lieut. Ribble had never had the opportunity of visiting the coast.

Upon his return to Medford last evening, he expressed the surprise experienced at finding the coast line

so irregular, and admitted that the Pacific was far different than he had imagined. Being unable to see a greater expanse of water somewhat baffled the officer.

"It seemed," the lieutenant said, "as if the line on the horizon were the sky and water met, was higher than it should be." This, friends explained to him, was due to high tide.

In keeping with the times—Drugs and Toilettries at Cut Prices at JARMIN'S DRUG STORE.

For Garden Plotting Tel. 912-J

CLEAN-UP WEEK

APRIL 8 TO 14

Inauguration of a local "Clean-up" week from April 8 to 14, was announced today by the city of Medford through Fred Scheffel, city superintendent.

The campaign will be carried on in connection with observance of national "clean-up" week and the cooperation of all home owners and renters will be asked in giving the city a new appearance.

This cooperation will be necessary as the city does not have funds available to finance the work. There have been many complaints voiced regarding the general appearance of many backyards and alleys but in these times there is little that the city can do about them unless the people choose to cooperate. In all times, however, people have been expected

to clean up their own trash piles and will be required to do so again.

Pears Yesterday

NEW YORK, March 12.—(AP)—(U. S. D. A.)—Pear auction market slightly stronger; 6 cars arrived; 3 Oregon cars, 3 New York, one Washington unloaded; 7 cars on track. Oregon D'Anjou: 733 boxes extra fancy, 3.15-3.45, average 3.27; 1,769 boxes fancy, 2.80-3.45, average 3.13.

Medford's Easter Parade of Fashions Begins Tomorrow, Wed. March 14th

WARDS

has your Best

Pills and Tuckers

FOR EASTER

Wise in the ways of women and their budgets, we know you want new clothes for Easter—and there's no reason why you can't get 'em at savings! We're all ready with a grand collection of Spring fashions, sponsored by the smartest stylists in the land. You'll find your frock, your coat and Easter bonnet—at prices you can well afford. Save at Wards!

Coats... Sports or dress; tweeds or crepey woolsens. Shoulders smooth; sleeves full from elbow to cuff. Colors—cloudy and varied!

9.95

Dresses... Smart, short sleeved crepes for street, Sunday night and dressy occasions! Blue, rose, beige and navy. Jacket frocks, too.

5.55

Hats... Off-the-face models! Pill-boxes! Breton sailors! The very new scoop-brims! Straw and straw cloth; navy, black and colors.

1.95

MONTGOMERY WARD



FASHION OF FAIR FEATURE HISTORY

During the fifteenth and sixteenth centuries, Venetian women were shown their Paris fashions each Ascension day on life-size dolls; and one outfit during these times wore furs in summer and thin clothes in winter as a proof that love made them strong enough to resist the elements. Collecting manuscripts became a fashion for the rich during the Renaissance, and even those unable to read adopted the custom. Just as in 1916, fifteenth and sixteenth century women stood with their abdomens out. The elemental passions were looked upon as "good form" and jealous husbands during the sixteenth century were blamed for attaching blocks of wood, two feet high to the shoe soles of their Venetian belles. They couldn't move alone with these patties attached to them.

FATHERS AND SONS BANQUET THURSDAY

Father's and Son's banquet will be conducted Thursday evening at 6:30 o'clock at the First Methodist church according to announcement this morning by Rev. Joseph Knotts. Reverend Knotts requested that all persons who plan to attend, please notify Mrs. A. Orin Schenk immediately. A program is being prepared for the evening and games are being planned for the fathers and sons.

...NIGHT COUGHS

Quickly Checked and a Restful Night Assured



RELIEVES COLDS WITHOUT "DOSING"

Spring Displays

... in Medford have never been more colorful... more thoroughly up-to-the-minute than this season. We compliment the merchants of this city upon this brilliant spring exposition of modes and fashions... The Easter Parade will get off to a good start in Medford tomorrow!

The FIRST NATIONAL BANK "A Departmentized Bank"