

**This week I moved my shop into a new location just east of Floucher's Lodge in Cascade Locks. I feel certain that my customers will enjoy this new place of business, and I wish they would drop in to give it the once over.**

**MIKE LONG, Barber**

## Know Your Bonneville Dam

### SHIP LOCK

The Columbia River has a project depth of 35 feet from its mouth to the mouth of the Willamette River and 30 feet to the city of Vancouver. From Vancouver to Bonneville the controlling depth is about 7 feet at low water and the channel is suitable for barge navigation. Upon completion of the Bonneville project depths in the pool above the dam to The Dalles will be 30 feet or over. The lock at Bonneville is designed to accomodate ocean-going vessels so that by deepening the channel below Bonneville such vessels may ascend the Columbia to The Dalles. Provision of a 27-foot channel from Vancouver to Bonneville has been authorized by Congress but allotment of funds has not yet been made.

The lock is 76 feet in width by 500 feet in length and has a depth of 26 feet over the lower sill at low water. The vertical lift at extreme low water is 66 feet, which is the greatest of any lock yet built. At normal river stage the lift is 59 feet and at extreme high water is about 30 feet. Excavation for the lock chamber was made in andesite rock. The exposed wall surfaces were faced with concrete and anchored to the rock and the additional height required was secured by concrete construction of both gravity and counterfort type walls.

The chamber is filled through an intake at the upstream end of the north wall containing two 7x11.5-foot tainter valves leading to a 14-foot diameter longitudinal culvert beneath the floor of the lock with branches leading to 41 floor ports, each 4 feet in diameter. Emptying is accomplished through the same culvert system leading to a 7x11.5-foot tainter valve under each wall near the lower end of the lock with discharge the water through five 6x7-foot square floor ports downstream from the lower gates. The normal time for filling or emptying the lock is about 15 minutes.

Mitering lock gates of structural steel consist of horizontal girders 44 feet long, framed with verticals and intercostals, faced with plates. The lower gate is 102 feet high, each leaf weighing 525 tons, and has air chambers in the lower half to reduce the weight while in service. The upper gate is 45 feet high. The gate operating machinery is located in the lock wall. Floating mooring bits with vertical guides, recessed in the lock walls, hold vessels while they are being raised or lowered.

All machinery is electrically driven and may be controlled from stations at each end of the north wall.

Concrete guide walls 500 feet long at each end of the lock enable vessels to moor while awaiting passage. A steel swing bridge across the canal below the lock permits access to the power house and Bradford Island.

**ROSS URGES CITY**  
(Continued from Page One)  
Bonneville power at \$14.50 a kilowatt-year, reputedly the lowest power rate in the nation.

Guy C. Myers, New York investment expert and fiscal agent for Cascade Locks, said that he believed the Ross figure was a fair one, and that he believed an \$85,000 revenue bond issue could be floated without difficulty.

The power system which Ross proposed be bought includes a small power plant on Herman creek, producing 275 watts of electricity—about 1-200th of the output of Bonneville dam.

Under the rates listed by Ross, Cascade Locks citizens will get 100 kilowatt-hours for \$2.76, lower than any private system in Oregon and 22 per cent lower than the Portland rate.

## Groceries General Merchandise Meats

Quality Merchandise at Reasonable Prices

# CARLSON'S

**Red & White Store**

Cascade Locks

SHOP AND SAVE AT

# CASCADE MARKET

Cascade Locks, Oregon

Phone 383

Free Delivery

*The Meeting Place of Satisfaction*

FEATURING  
**SWIFTS**  
GOVERNMENT INSPECTED MEATS AND  
A COMPLETE LINE OF DAIRY  
PRODUCTS.

Born to Mr. and Mrs. Roger Neiss on July seventh, a baby girl. The name selected for the new arrival was Yvonne. Roger, who is editor and illustrator of the USED publication, Courier, states that she is not named after one of the famous

Canadian children.

Incidentally, Roger, that crack about Cascade Locks folks having used candles all their lives till the Bonneville Power arrived... remember you used to live in Cascade Locks.

## BUSINESS DIRECTORY

### CHIROPRACTOR

Dr. Earl J. Ivie  
Chiropractic Physician  
X-ray Diagnosis  
Complete Electrotherapy  
Colonic Irrigation  
Franz Building  
Office hours 9 to 5  
Phone Hood River 6951

### DENTIST

Dr. L. R. Alexander  
Dentist — Medical Bldg.  
Phone 2021 Res. 3144

J. Warner Henderson  
D.M.D.

Dentist — Scott Bldg.  
Phone 4601 Res. 5413

### OPTOMETRIST

Penn C. Crum, Opt. D.  
Optometrist and Optician  
Scott Bldg.  
Phone 2402 Res. 1173

### PHYSICIAN

C. W. Hamilton, M. D.  
Physician and Surgeon  
Office, Brosius Bldg.  
Office Phone 3741  
Residence Phone 3742  
Hood River, Ore.

### ABSTRACTS

Hood River Abstract & Investment Company  
Abstracts—Insurance—Real Estate—Loans  
104 Third Street  
Hood River, Ore.

### ELECTRIC SALES & SERVICE

Lee's Electric Shop  
Radio and Electrical Service  
Phone 1791 210 Oak St.

### PLUMBING AND HEATING

B. B. Powell  
Plumbing—Heating—Sheet Metal Work  
Phone 2552 310 Cascade

### LIFE INSURANCE

Ron E. Dreske  
Life Insurance  
Hall Building  
Hood River, Oregon  
Phone 6444

### AUTO FREIGHT

Ray's Transfer  
Local and Long Distance Moving  
306 State Street  
Phone 6571

### Lester Auto Freight

Portland, Bonneville, Hood River  
Phone Hood River 1261  
Portland EA. 7800

### PAINTING—PAPERING

L. C. Cheatham  
Phone Hood River 5892

### NEWSPAPER AGENCY

Oregonian Agency  
Phone 1542  
Emery Cotton, Mgr.  
Address 209 Sherman

### W. P. EDLING

Local Agent  
Oregon Journal  
Phone 5857 Hood River