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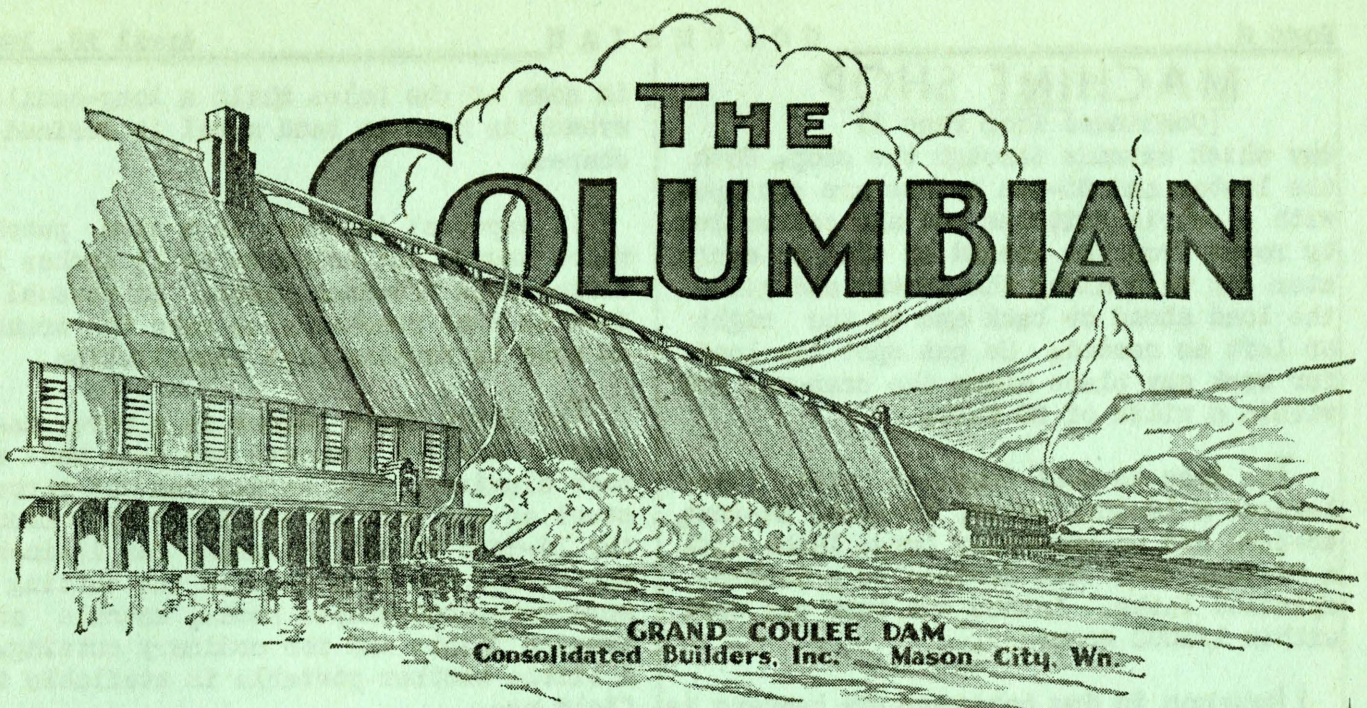
Consolidated Builders

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Vol. 4 No. 8

April 20, 1939

MACHINE SHOP MECHANICAL FACTORY

To most of us fifty or even a hundred dollars has some meaning, but a million dollars is something a little too vast to consider--

The mechanical requirements at Grand Coulee dam, however, involve an investment of millions of dollars in equipment in order to carry out a work program efficiently and economically. This equipment must be maintained in good condition, parts must often be replaced quickly and future new devices must sometimes be manufactured as improvements in the field.

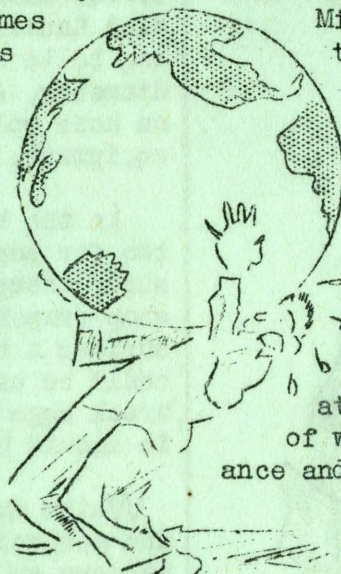
"Time and tide wait for no man" and no contractors. The time problems of great concern in any contract and unnecessary expense is something that must be cut in order for any contractors to survive.

To offset possibilities of havoc in questions of time and expense, CBI maintains a machine shop large enough to work on the largest equipment, complete and exact enough to make the most minute replacements and to manufacture

new designs in machinery. Such a shop makes it possible to manufacture parts in several hours which might otherwise cost valuable weeks and even months if ordered through certain manufacturing companies.

Several specific examples will suggest, rather than list, the variety of work machine shop employees have done: Not long ago some tiny screws .056-inch in diameter and with 48 threads to the inch were produced on a 14-inch lathe.

Midget worm and spur gears were turned out for theatre equipment and springs for hand stapling machines. On the other hand, a metal saw rigged up in the milling machine cut grooves off a 6-foot diameter pulley; and the 10 monorails conducting concrete inside trestle towers show the handiwork of shop employees. In spite of this and other valuable and ingenious manufacturing carried on at the shop, however, the big order of work is naturally one of maintenance and repair.



YOU DON'T HAVE TO LIFT THE WHOLE WORLD, MR WORKER - IF OBJECTS ARE TOO HEAVY - GET HELP!

Often the first equipment in use at the shop is one of the two traveling hoists operating on the crane-
(Continued on Page 2)

MACHINE SHOP

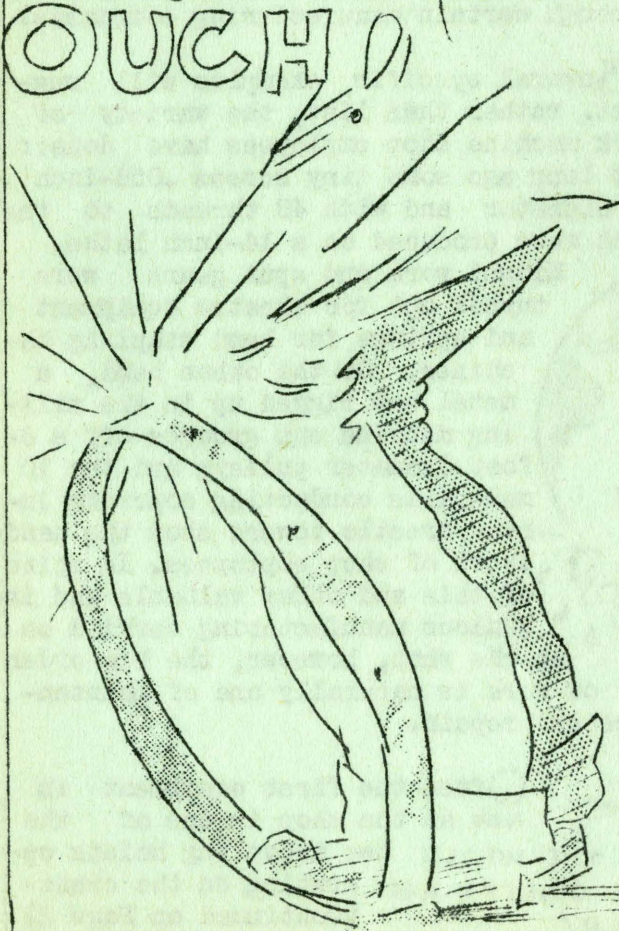
(Continued from Page 1)

way which extends through the shop. Both the 15-ton and 25-ton hoists are equipped with electric switches and are controlled by ropes from the ground so that an operator can walk along the runway and guide the load ahead or back and to the right or left as needed. He can spot the load for work any place along the craneway and within a width of 20 feet.

The shop is well supplied with five lathes: a 14-inch swing, 17-inch, 24-inch, 43-inch and an unusually large lathe with a 24-foot bed. The 24-inch is a double-spindled lathe. Lathes can turn out work within 1/1000 accuracy.

Uncommon in dam construction centers is the drill press found in the shop. This can work on gears up to six feet in diameter and can drill holes up to three inches in diameter.

The "face-plate slab" is a huge sheet of steel some three or four inches thick and containing over 100 holes. It is used for bending heated rods. Forms are set up



in some of the holes while a long-handled wrench is used to bend metal in desired shapes.

Of especial interest is a huge punch which knocks out holes up to $1\frac{1}{2}$ inches in diameter in $\frac{3}{4}$ -inch plate. An unusual item is that punches also make the wrenches used in cooling pipe installation.

The large shape burner is a rare machine. After a template has been made of soft aluminum, this burner can cut through steel at the rate of six inches per minute for 14-inch steel, 15 inches for $1\frac{1}{2}$ -inch. The burner has been used in the cutting of sprockets, odd-shaped hooks, knuckle and trunion joints and for ordinary cutting. A little brother portable is available for field use.

Jobs requiring better than 3/1000 tolerance are turned over to the #3 milling machine, used for gear cutting and for external keyways and provided with a 12-inch chuck which enables turning small pins, bushings and shapes.

The copper bending machine turns out from 5000 to 6000 feet of copper grout strips in 10-foot lengths in an 8-hour shift. Seven different-shaped strips are used in the grout program. Originally the strips were bent by hand.

Other equipment includes a 24-inch shaper for large-tooth pinions, a double-spindled Landis threading machine for threading bolts from $\frac{3}{8}$ -inch to 2 $\frac{1}{2}$ inches in diameter, special dies for cutting grooves on hose splicers and other miscellaneous equipment.

In the blacksmith shop are three forges, two for small pieces, one for larger. This shop, occupying a corner of the machine shop proper, contains an air hammer which strikes a blow of 600 pounds and which could be used by a careful operator to break eggs without smashing them if ever it should be necessary.

While much of the work of machinists and mechanics requires collaboration with welders and with employees of the "cat" shop, these two groups of workmen are not a part of the machine shop proper. The

(Continued on Page 5)

BENEFIT DANCE!

WELL BABY CLINIC \$800 IN DOOR PRIZES

In behalf of the Well Baby Clinic, a benefit dance will be held on Saturday night, May 6, in the Mason City gymnasium. The purpose of the benefit is to raise funds for the clinic in order that it may further its work in improving the health of the pre-school children of all communities in the area.

Children have been found who are in advanced stages of tuberculosis. Many more may have the same dreaded disease in its early and easily curable stages, but this cannot be determined without an expensive laboratory test. The clinic would like to include this test in its routine examinations but cannot afford to do so unless it has a fund to cover the expense. Many badly infected tonsils have been found and in some cases the parents cannot afford to have them removed. The clinic would like to assume a part of this burden also, but again is hampered by lack of money.

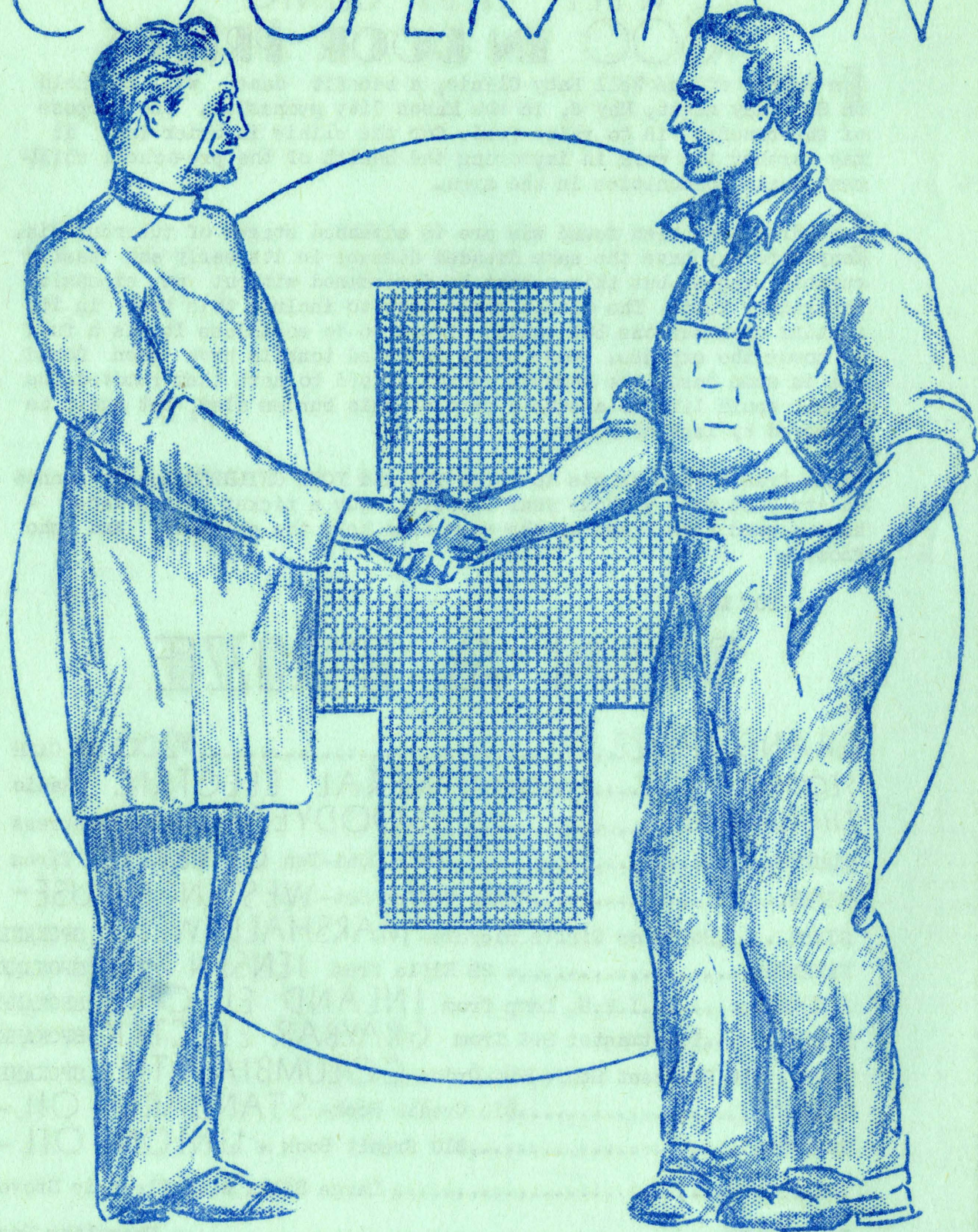
This free clinic exists to serve YOU and YOUR CHILDREN, but it cannot do its best work without your support. Buy a ticket to the dance - have a good time - and at the same time help the children. And who knows -

YOU MAY

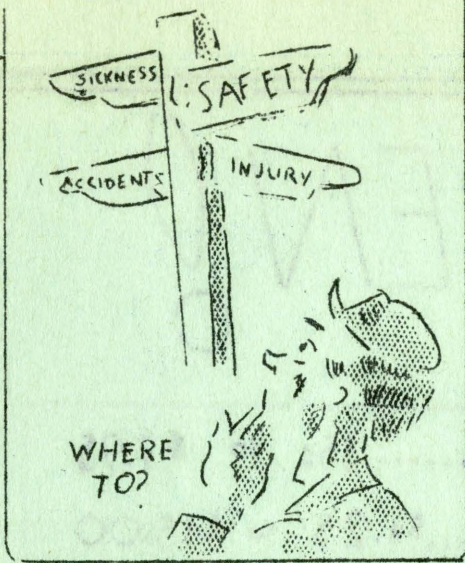
WIN A PRIZE

- GRAND PRIZE.....\$200 IN CASH
- SECOND PRIZE.....\$100 GENERAL ELECTRIC Radio
- THIRD PRIZE.....GOODYEAR Airflow Mattress
- FOURTH..... Four Dual-Ten GENERAL Tires
- FIFTH.....Chase Coffee Set-WESTINGHOUSE-
- SIXTH.....Boy's or Girl's Bicycle-MARSHALL WELLS, SPOKANE
- SEVENTH..... 22 Rifle from JENSEN BYRD, SPOKANE
- EIGHTH.....I.E.S. Lamp from INLAND ELECTRIC, SPOKANE
- NINTH.....Toastmaster Set from GRAYBAR ELECTRIC, SPOKANE
- TENTH...\$10 Crescent Store Mdse Order-COLUMBIA STEEL, SPOKANE
- ELEVENTH.....\$10 Credit Book- STANDARD OIL-
- TWELFTH.....\$10 Credit Book - UNION OIL-
- THIRTEENTH..... Large Silex with Electric Stove
- FOURTEENTH..... Traveling Bag

"CO-OPERATION"



THE SAFETY SPIRIT



by a "feebul" foreman

...ED EVANS thinks mebbe he'll bring in a Pirate with a sash and blade to carry on for his softball team of carpenters. He whispers of DOC COOK, former big league hurler from Pittsburgh who has a CBI brass.

...The Sweepstakes across the sea were good enough for 500 pounds (about \$2500) to LEE CLAYTOR.

...WENDELL GROVE has a bit of interest he recently acquired in Kansas City. She'll be out here shortly to run his household.

...We know somebody with a '39 Ford who has been worried -- and not over finances.

...Funny, you usually read a billing on boxing smokers but there was no previous notice on the HOLLOWAY-BRATTAIN go.

...MISFORTUNES IN LIFE MAY BRING SOME REWARDS BUT TRY FINDING A SUITABLE REWARD FOR THE PAIN AND MISERY OF AN ACCIDENT.

...ETTA GLOER is eligible to play softball with a team of unmarried girls but this fall she will be eligible to play with Mrs. Price's squad.

...FRED NOURSE is a collectionist. He has accumulated samples of every tax token used by the various states.

...\$500 reward for "Hardrock" TOM for "stealing time" is posted with a sketch in the recreation hall; but somehow Tom is unperturbed over taking spit game time.

...Statistics can be wrong. Ask MR. and MRS. C. E. SEARS.

...MRS. (Laura) KARSTEDT was very happy at the dance and CHARLES MELANDER, away from it.

..."ASBESTOS SKIN" BURNITE went swimming this week.

...YOU CAN'T PLAY HOOKEY FROM SAFETY WITHOUT GETTING HURT. WORK SAFELY.

...The engineering department would have liked to take yesterday morning off to solve the 73% eclipse of the sun.

...JIMMY FIELDS bought what was originally a new car -- a '29 Buick.

It wuz a right spiffy room. It wuz so classy that for the first time I felt self conshus about sleepin in my underwear.

* * * * *

I explain to the wife's sister that spaghetti is just the hole which they punch out of the macaroni and she sez shes red where the by-products of a business often turn out more important than what they started to make.

* * * * *

An' Bob Coleman sez figgers dont lie but I still hold theys a flock of C.P.A.'s in the cooler.

* * * * *

He sez no rattle snake will bite him. I calculate even a snake's gotta draw the line somewheres.

* * * * *

The law can throw a guy in the can for carryin concealed weapons. Too bad it cant do somethin to the guy who conceals his ignorance until an accident occurs.

* * * * *

The phone company manager sez just one more conversation like that and out comes your phone, but kin I help it if Bob Myers lacks refinement.

* * * * *

The guy which sez try try agin never piled this tough bartender four times like I done.

* * * * *

While mamma attended the church doins at Spokane, I spent a enjoyable evenin on B street. I sure like to think of us as an average American family.

* * * * *

An' the taxi dancer yells, "Here comes Sandy Klaws", but if she means me she's nuts. I'd just had a shave a hour before.

(Continued from Page 2)

"cat" shop has shop service of its own and the welders have their own "home" at the south end of the machine shop. Under the supervision of the machine shop, however, are numerous mechanics and machinists in the field. These assist in preventing machine breakdowns which might tie up whole divisions of work.

FISHERMEN!

REELS 35c to \$7.95
RODS.....\$1.25 to \$15.00
LINE.....15c to \$4.50.
FLIES.....10c to 25c
SPINNERS.10c to \$1.25
FLY KITS,..60c to \$2.75
SALMON EGGS.15c to 40c
LANDING NETS.60-\$1.75
BASS PLUGS..50c to \$1.25
TACKLE BOXES...98c



COMPLETE LINE
OF
ACCESSORIES

MASON CITY STORES

FALLS

Ever since man has been walking around on two legs one of his toughest jobs has been to keep from falling down.

And when man, at about the age of one year, manage to put the length of their legs between the ground and their sitters, they still aren't satisfied.

For years they've been talking about getting to the moon and maybe even paying a visit to Mars.

But while they are laying plans for these bigger and better falls, the rest of us seem to be getting bunged up pretty well in the common, everyday, garden variety of tumbles. Falling down stairs and into elevator shafts is breaking a lot of arms and legs these days. And we can depend on scaffolds to pitch quite a few careless fellows into trouble.

While we're on the subject, here's a tip to test a scaffold plank if you'd come down easy the next time you use one.

Block it up a foot from the ground, placing supports the same distance apart as the scaffold supports on which it is to be used. Then load the plank with three times the load it will carry in actual use. Put this load in the center of the plank.

At the slightest sign of weakness, discard the plank and mark it so no one else will use it for this purpose.

--News Letter - Wilson Dam

Modified cement flowed through the new 8-inch cement line from the silos last week for the first time.

For the first time in the recorded history of the Columbia river, elevations of the river at Grand Coulee dam have edged up to 1000 -- upstream from the dam. This makes the surface of the lake behind the dam over 25 feet higher than any peak river flow since work began here.

Patient in hospital reception room: "How do you do?"

Second patient: "Oh, so, so. I'm aching from arthritis."

First: "Glad to meet you. I'm Kelly from Butte."

FIRST COMES SAFETY FIRST!



GOVERNOR MAY ATTEND

Sponsors of one of the important and colorful events of the area are applying added effort to reach all their members--

All Masons and their wives and Eastern Stars and their husbands are extended an invitation to attend the Grand Visitation banquet in the CBI mess hall Saturday evening, May 13.

The banquet is under the sponsorship of the Spade and Maul club of the Grand Coulee dam area, assisted by the Agnes Gerhman club; and is in honor of W. Gale Matthews, founder and charter member of the Spade and Maul club.

From 500 to 700 guests are expected. Governor Clarence D. Martin expressed his intention to attend if possible.

No. 12, last of the pumping plant discharge tunnels, holed through April 8. Further CBI work on the tunnels includes trimming, not concreting of the walls.

The destiny of the Grand Coulee Dam Rod & Gun club for the coming year will be in the hands of Martin Prins, president; George Simonson, vice-president; Lou Stuckey, secretary-treasurer; and Tim Bedford, Ted Atwater and J.R.Thomas, trustees.

Four pipe contracts totaling \$182,012 were awarded last week by the Secretary of the Interior for installation in Grand Coulee dam.

Associated Piping and Engineering Co., Ltd., Los Angeles, was awarded the major contract of \$167,600 for pipe fittings and appurtenances.

A gate machinery contract of \$124,078 was also awarded to the American Bridge Co., Denver.

Miss Martha L. Brockman of Colfax, Wash. collected information at the damsite April 10 on her way to become a receptionist at the New York fair.

Questionnaire: "What are the sister states?"

Answer: "Probably Miss Ouri, Ida Ho, Mary Land, Allie Bama, Callie Fornia, Louisa Anna, Della Ware and Minnie Sota."

EASTER LEAVES TWINS

Easter blessings came double at Mason City hospital for Mr. and Mrs. Carl E. Scheibner of Wilbur in the birth of tiny daughters, Louise Mae (5 lbs. 15 oz.) and Lois Marie (5 lbs. 8 oz.). These are the only twins today who have been born in Mason City.

Also born on Easter (April 9) were daughters to Mr. and Mrs. D.W. Lewis of Osborne and Mr. and Mrs. E. Talmage Ferguson of Elmore Heights.

Other births:

April 17, to Mr. and Mrs. J.E. Baker of Electric City, a son.
 April 16, to Mr. and Mrs. William A. Wood of Grand Coulee, a daughter.
 April 15, to Mr. and Mrs. W. H. Clark of Coulee Dam, a daughter.
 April 15, to Mr. and Mrs. L.L. Myers of Delano, a son.
 April 14, to Mr. and Mrs. Henry T. Sears of Nespelem, a son.
 April 14, to Mr. and Mrs. F. E. Shockley of Grand Coulee, a son.
 April 10, to Mr. and Mrs. Leighton W. Johnson of Coulee Dam, a daughter.
 April 10, to Mr. and Mrs. P.W. Spaulding of Grand Coulee, a daughter.
 April 7, to Mr. and Mrs. Peter C. Carnhan of Grand Coulee, a son.
 April 5, to Mr. and Mrs. D.J. Thompson of Electric City, a son.

CRUISER TAKES TO WATER

A new boat dipped into the lake above the dam Tuesday morning when F.A. Banks, construction engineer for the USBR, launched his cabin cruiser. With many in attendance, the boat was christened "Julie Ann" by Mrs. Stephen Girard, Mr. Banks' daughter.

The twin-screw 34-foot cruiser was shipped by rail from the Mathews factory at Port Clinton, Ohio.

NO MATTER HOW TOUGH THE TASK, THERE IS ALWAYS A WAY TO DO IT EFFICIENTLY AND SAFELY.

Husband (after returning from a week's absence): "Miss me much, honey?"

Wife (busy with home work): "Sure, dear, I'll write you every day."

The rubble masonry wall for west side parking is over two-thirds complete.

!!!!!!Safety Pays!!!!!!

CHURCH

CATHOLIC CHURCH-Father A. Farrelly, Pastor
 9:00 a.m. Mass, Mason City
 11:00 a.m. Mass, Grand Coulee

COMMUNITY CHURCH - Rev. D. E. Peterson,
 Minister

9:45 a.m. Church School
 11:00 a.m. Morning Worship
 11:00 a.m. Nursery and Kindergarten
 6:00 p.m. High School young people
 7:30 p.m. Vesper service

CHURCH OF JESUS CHRIST OF LATTER DAY
 SAINTS (in Mason City high school)--

R.E. Nuttall, Branch President
 10:30 a.m. Opening exercises
 11:15 a.m. Departmental works

ZION LUTHERAN CHURCH-Grand Coulee Heights
 --E. F. Muhly, Pastor

April 23:

Sunday School 10:00 a.m.
 Divine Services 11:00 a.m.

April 30:

Sunday School 10:00 a.m.
 Divine Services 7:30 p.m.

Everyone Welcome!

CHRISTIAN SCIENCE SOCIETY, Coulee Dam
 (in government school)

11:00 a.m. Sunday School
 11:00 a.m. Church Services
 Mid-week services, Wednesday, 8:00 p.m.

GRAND COULEE COMMUNITY CHURCH-E.C. Wood,
 Pastor

9:45 a.m. Church School
 11:00 a.m. Morning Worship
 6:30 p.m. United Youth group
 7:30 p.m. Evening Services

ELECTRIC CITY UNION CHURCH-Rev. C. Carlson,
 Pastor

10:00 a.m. Sunday School, Mrs. William
 Tecters, superintendent
 11:00 a.m. Morning Worship
 6:00 p.m. Christian Endeavor

OSBORNE GOSPEL TABERNACLE

10:00 a.m. Sunday School
 11:00 a.m. Morning Services
 7:30 p.m. Evening Services

SEVENTH DAY ADVENTIST (in Full Gospel
 Mission, Grand Coulee, Saturday)

9:45 a.m. Sabbath School
 11:00 a.m. Bible Study

LOCAL GOLFERS TAKE OPENING TOURNEY

Members of the Evergreen golf club teed off last Sunday in the opening tournament of the year on the local links to trim Leavenworth 21 to 9 and to squeeze through to take Wilbur 26 to 25.

Summaries: (Par - 72)

WILBUR			EVERGREEN CLUB		
	Score	Points		Score	Points
Hanson	78	3	Belding	94	0
Faldborg	85	3	Feldhahn	96	0
Gerl	80	0	Tatshama	74	3
Oswalt	89	1	Whitelaw	80	2
Gilles	94	2	Wollenberg	97	1
Howell	87	3	Anderson	96	0
Stricker	88	3	Nieman, Bob	96	0
Jensen	98	1	Hamby	95	2
Hanson	112	0	Holloman	96	3
Alexander	98	0	Mundt	89	3
Brown	101	0	Heysell	94	3
Guydir	90	0	Sears	81	3
Lauritzen, V.	85	3	Circle	94	0
Lauritzen	98	3	Tyndall	106	0
Paulsen	121	0	Mapes	102	3
Stevenson	99	2	Davis, A. G.	106	1
Oswalt, E.	93	1	Day, Tom	91	2
		<u>25</u>			<u>26</u>

LEAVENWORTH - EVERGREEN

Williams 85-0	Williams, Al 75-3
McClintock 89-1	Mitchelson 84-2
Simpson 92-2	Nanamkin 91-1
Hart 95-0	Arnone 85-1
West 103-0	McShane 93-3
Little 86-3	Stout 99-0
Kingsbury 96-0	Gray 85-3
Simons 99-0	Silkforth 96-3
Shamrock 102-1	Monroe 101-2
Day, T. 91-2	Oswalt 93-1

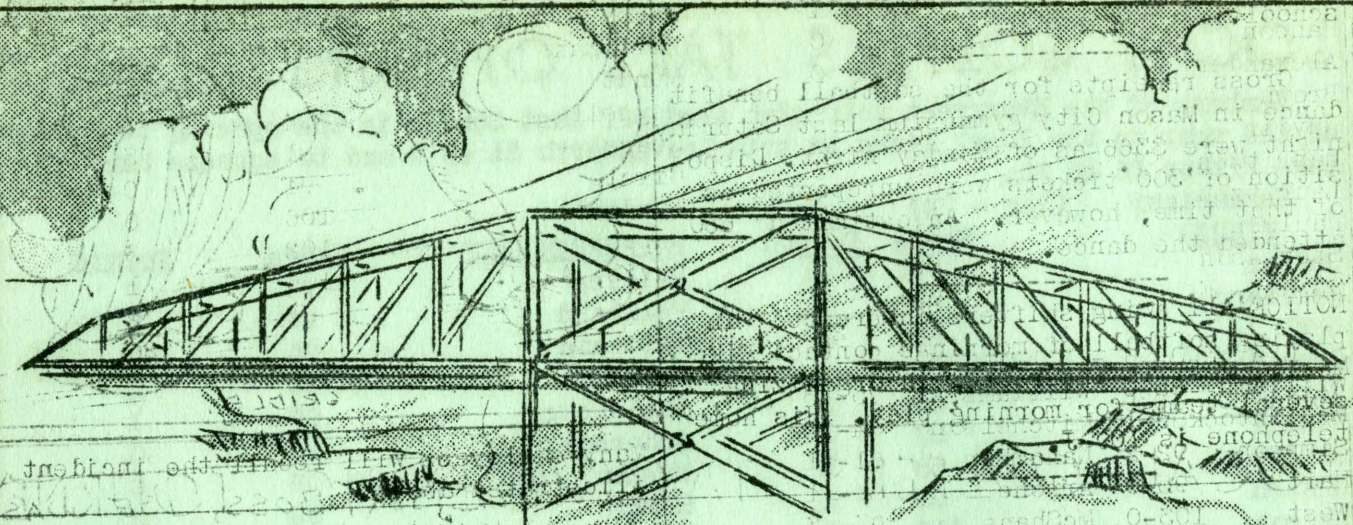
On the first day of May eight softball teams in the USBR league are scheduled for league play in Coulee Dam. The clubs are: West Engineers, East Engineers, Inspectors, Administration Building, Laboratory, Force Account, Gardeners, and Mason City high school.

Gross receipts for the softball benefit dance in Mason City gymnasium last Saturday night were \$366 as of Monday night. Disposition of 300 tickets were unreported as of that time, however. An estimated 650 attended the dance.

NOTICE-All swing shifters interested in playing softball of mornings contact Mike Mesi. Mesi is interested in organizing several teams for morning play. His home telephone is 109-J.

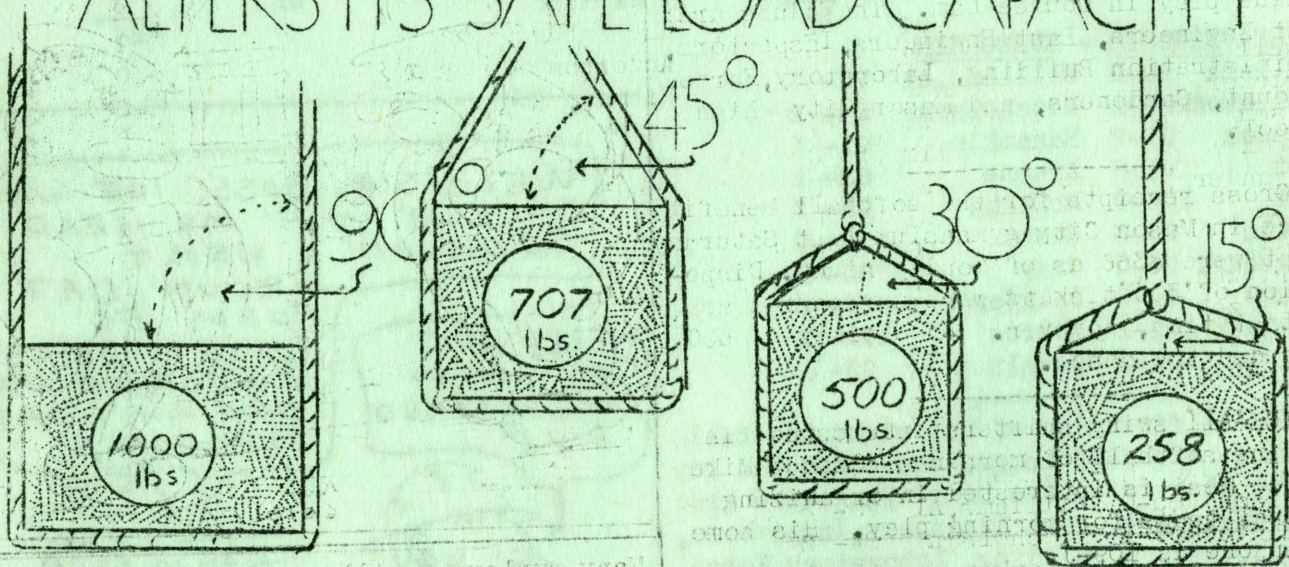


Many employees will recall the incident illustrated above.



? DO YOU KNOW ?

HOW THE ANGLE OF A SLING ALTERS ITS SAFE LOAD CAPACITY



SAFE LOADS ON CABLES

3/8 - INCH DIAMETER	2500 LBS.
1/2 - INCH DIAMETER	-----	4500 LBS.
5/8 - INCH DIAMETER	6500 LBS.
3/4 - INCH DIAMETER	9500 LBS.

WORK SAFELY AND GET THE UTMOST JOY OUT OF LIVING!

Fifty per cent of the permanent steel bulkheads have been placed over draft tubes of the west power house. The 30 gates, 15x24 feet, are to go over exits of the nine main units and the station-service unit.

Placement of steel gates succeeded the planned flooding of the west power house and removal of timber gates.

A cordial invitation is extended to everyone in the area to attend a free concert to be given by the USBR male quartet in the CBI gymnasium May 4 at 8 p.m. Familiar songs will be featured with choice bits of gossip.

The quartet will be accompanied by Mrs. A. M. Axelson.

Work began yesterday (Wednesday) on the installation of the second series of ring-follower and paradox gates at elevation 1034, 100 feet higher than the first series.

These gates are to control the flow of water through the second series of 20 outlet conduits.

AN IMPORTANT MEETING OF REPRESENTATIVES of all softball teams to start league play in Mason City May 8 will be held tomorrow night (Friday) at 7:30 in the Mason City fire station.

Walter Dibble, CBI tunnel superintendent, left with his family this week to join the Walsh Construction company in New York. He had been employed in rock work here since early construction work on Grand Coulee dam.

"I took the recipe for this cake out of the cookery book."

"You did quite right, darling. It never should have been put in."

SAFETY FIRST

Expert Watch Repairing

SEE THE LATEST TRU VUE FILMS

YACHT CLUB HAS 130 CHARTER MEMBERS

Although 130 members went on the charter rolls of the Grand Coulee Yacht club Friday night, April 14, membership is still open to all persons interested in boating on the lake behind the dam. Application for membership may be made with Hal Babbitt, secretary, at the Mason City hotel. Members are all requested to turn in their pass blanks to the secretary as soon as possible.

The board of governors will meet at a special session tonight (Thursday) in the Mason City hotel.

The log boom across the river above the dam is now being installed and will be completed some time this week. Moorage docks are also under construction. Many boats are slated to take to the water soon.

Several of the 20 outlet tunnels through the dam below river surface will be available for use in the diversion program within about two weeks, work progress shows. The outlet works will be used first to relieve pressures so that upstream bulkheads may be buoyed up and removed for tunnel and gate operation.

FOUND- A lady's purse on Ickes avenue. Owner may inquire at CBI personnel manager's office.

Familiar figures among officials of the MNAK during the foundation contract were Francis Donaldson and Col. M. J. Whitson, visitors here this week.

All will be quiet soon in the 12 pumping plant discharge tunnels. Trimming remains in only three tunnels.

"I want you to know I've got a yen for you." "How much is that in American money?"

April

Is The Month Of

DIAMONDS

View the Latest Diamond Mountings and Bridal Sets

FRED N. LUDWIG

Artistic Engraving

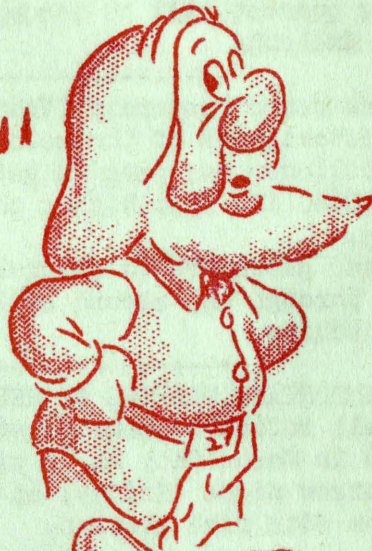
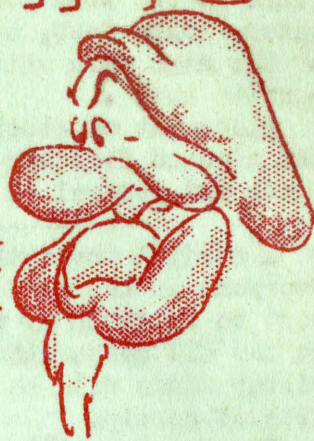
RETURN SHOWING OF

"SNOW WHITE

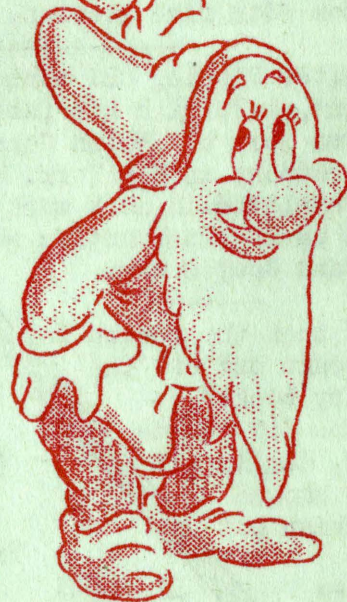
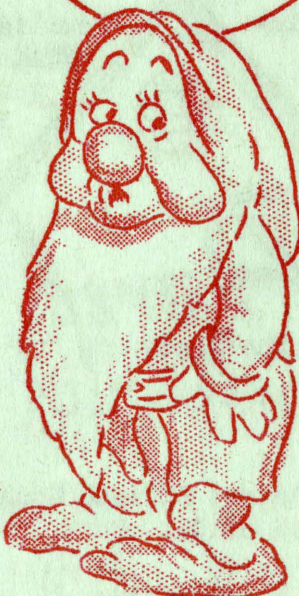
AND THE

7

DWARFS"



SUN.
MON.
TUE.



MASON CITY THEATRE