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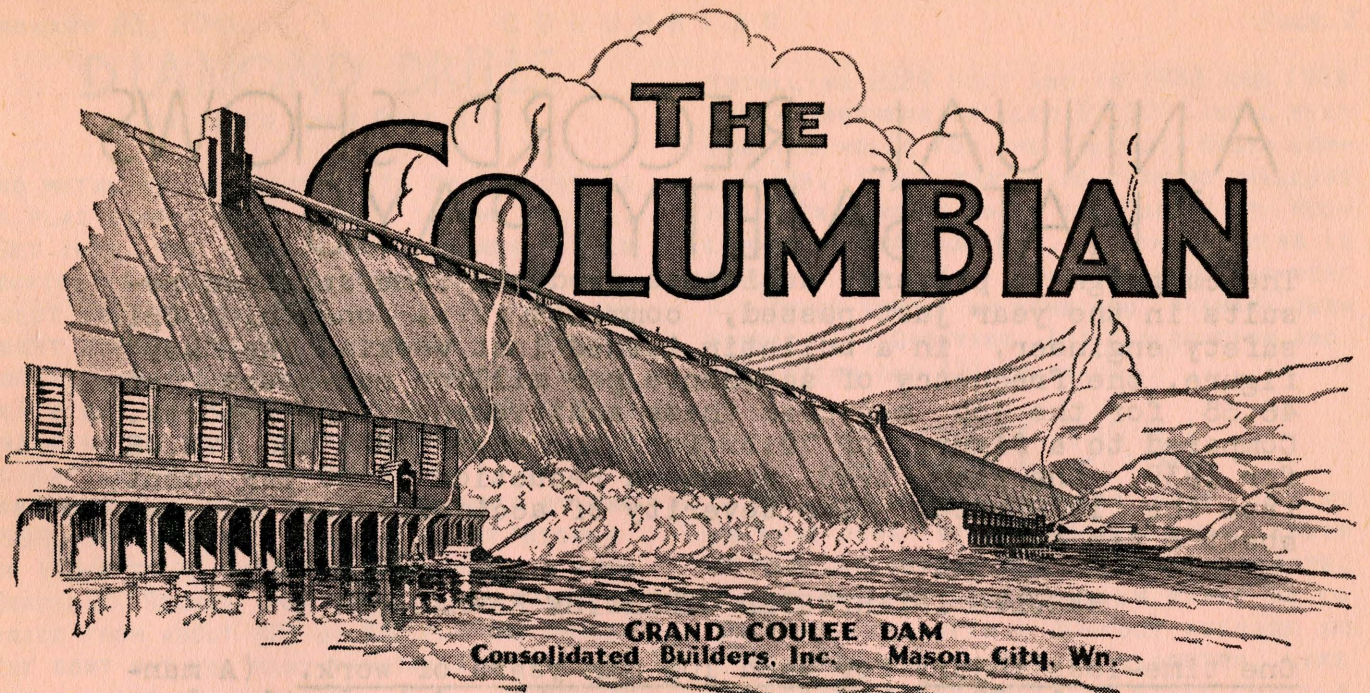
Consolidated Builders

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GRAND COULEE DAM
Consolidated Builders, Inc. Mason City, Wn.

VOL. 7 No. 2

JANUARY 23, 1941

DIAMONDS HAVE BIG ROLE IN BUILDING COULEE DAM

THOUSANDS OF MILES AWAY IN AFRICA IS ONE SCENE WHERE THE WAR OF CONTINENTS IS RAGING. IN THE WASTELANDS AND JUNGLES OF THE SAME CONTINENT, AS IN BRAZIL, SOUTH AMERICA, NATIVES OF THE COUNTRY ARE SEARCHING FOR VALUABLE STONES WHICH MAY END UP IN USE AT GRAND COULEE DAM. WITH BATTLE LINES DRAWN AROUND CONTINENTS, HOWEVER, THE EASE OF OBTAINING STONES FROM AFRICA IS CONSIDERABLY LESSENED. IN BRAZIL, DAYS OF BOATING UP THE MOUTHS OF RIVERS FOLLOWED BY MULE-BACK RIDES FAR INTO THE INTERIOR IS ONE MEANS OF BRINGING POSSESSION OF SUCH STONES AS ARE USED AT GRAND COULEE DAM. THE STONES ARE DIAMONDS, BUT NOT QUITE THE SAME STONES AS ADORN THE HANDS OF MILADY.

THE STONES ARE BLACK DIAMONDS CALLED "CARBONS" AND IMPERFECT WHITE DIAMONDS (BORT) WHICH HAVE BEEN USED IN DRILL BITS FOR APPROXIMATELY 80 PER CENT OF DRILL FOOTAGE FOR EXPLORATION, GROUT AND DRAIN HOLE WORK ON THE COLUMBIA BASIN PROJECT. THESE GEMS HAVE ACCOUNTED FOR MORE THAN 37 MILES (197,007.44 LINEAL FEET) OF DIAMOND DRILLING UP TO JAN. 1 OF THIS YEAR, ACCORDING TO FIGURES ARRIVED AT THROUGH SEVERAL DEPARTMENTS OF THE BUREAU OF RECLAMATION, CBI, AND LYNCH BROTHERS, DIA-

MOND DRILLERS. ALTHOUGH IT IS IMPOSSIBLE TO ESTIMATE THE REMAINING FOOTAGE, LYNCH BROTHERS, DIAMOND DRILLING FOR CBI, ARE CLOSE TO 50 PER CENT COMPLETED. THIS SUGGESTS THAT SOMETHING IN THE NEIGHBORHOOD OF 100,000 FEET MAY YET BE DRILLED INTO GRAND COULEE DAM BEDROCK. THE CBI TOTAL TO JAN. 1 WAS 108,755.94'--OVER 20 MILES OF DIAMOND DRILLING.

A DIAMOND DRILL MAY BE DEFINED AS A HARD-ROCK ROTARY DRILL WHICH NORMALLY TAKES A CORE. IT ROTATES A STRING OF HOLLOW STEEL FLUSH-JOINTED DRILL PIPE ON THE BOTTOM OF WHICH IS THE CORE BARREL AND BIT. THE RING-SHAPED BIT, SET WITH DIAMONDS, IS ATTACHED TO THE LOWER END OF THE PIPE. THE DRILL STEM IS ROTATED BY SHAFT AND GEARING AND IT IS LOWERED, AS CUTTING PROGRESSES, BY A SCREW FEED. USE OF A WATER PUMP WASHES OUT THE CUTTINGS AND KEEPS THE BIT COOL. CORES ARE REMOVED THROUGH HELP OF A SPRING NEAR THE BIT WHICH HOLDS THE CORE INSIDE THE PIPE WHILE IT IS BEING HOISTED OUT. DRILLS IN THE DAM ARE AIR-OPERATED. ELSEWHERE ON THE PROJECT THEY ARE GASOLINE-OPERATED.

THE BIT ITSELF, AT ITS SIMPLEST, HAS
(CONTINUED ON PAGE 3)

DANCE FRIDAY, JAN. 31, SO THAT OTHERS MAY WALK!

ANNUAL RECORD SHOWS THAT SAFETY PAYS

The campaign to prevent accidents produced some splendid results in the year just passed, comments F. W. Johnson, CBI safety engineer, in a bulletin issued last week. The "key" figure, the frequency of accidents per million man-hours, of 48.55 for the job measures these achievements, he reports. Compared to a figure of 79.39 for the year 1938 and 72.08 for 1939, the year 1940 shows a reduction of 33 per cent from the 1939 rate. The severity of accidents was reduced about 5 per cent.

RESULTS INTERPRETED OTHERWISE REVEAL----

One "time-loss" injury for each $10\frac{1}{2}$ man-years of work. (A man-year is 50 weeks of 40 hours each). Actual time loss from work was an average of 26 days per injury. This does not include one total disability charged to an injury that caused the amputation of the legs below the knee of the injured man.

One reported injury for each 43 man-weeks of work. This includes all minor injuries such as dust in the eyes, splinters, scratches, abrasions and other wounds.

One fatal injury for each 395 man-years of work.

PRINCIPAL CAUSES OF INJURY

FALLS - 23 per cent of all injuries (reduction of 25 per cent from 1939's 30 per cent).

FALLING OBJECTS - 14 per cent (reduction of 2 per cent).

STEPPING ON OBJECTS - causing sprains - $14\frac{1}{2}$ per cent (increase of $3\frac{1}{2}$ per cent).

HANDLING OBJECTS - DROPPING TOOLS AND OTHER OBJECTS ON FEET, IMPROPER LIFTING - $14\frac{1}{2}$ per cent (up $5\frac{1}{2}$ per cent).

MOVING OBJECTS - TRAINS, TRUCKS, SWINGING LOADS AND THE LIKE - 5 per cent (reduction of 4 per cent).

INFECTIONS - usually due to neglect of minor wounds - 10 per cent (an increase of 100 per cent).

HONOR ROLL FOR YEAR

1. Electrical department with no lost-time injuries;
2. pipes, pumps & curing department and
- (3) material and labor department.

DIAMOND DRILLS

(CONTINUED FROM PAGE 1)

NO METAL DRILL POINTS; ITS DRILL EDGE IS A FLAT CIRCLE WITH A HOLE IN THE MIDDLE. SET INTO THE CIRCLE ARE DIAMONDS NEARLY BURIED IN THE METAL OF THE BIT. THEY PROJECT ONLY ABOUT 1/32-INCH. IF THEY ARE BORT STONES, AS USED BY BOTH THE BUREAU OF RECLAMATION AND LYNCH BROTHERS HERE, EACH BIT MAY CONTAIN 150 OR MORE STONES RANGING IN SIZE FROM ABOUT 6 TO 10 PER CARAT AND OBTAINED FROM AFRICA. IF THEY ARE BLACK DIAMOND BITS, ALSO USED BY THE USBR, THE BIT MAY CONTAIN EIGHT STONES OF 1 3/4 TO 2 1/4 CARATS EACH, BROUGHT IN FROM BRAZIL. STONES FOR ONE BIT MAY RANGE IN PRICE FROM ABOUT \$25 OR \$30 FOR THE SMALLEST BORT BIT TO MANY THOUSANDS OF DOLLARS FOR A LARGE DIAMOND BIT. THE QUALITY OF THE STONES HAS A LOT TO DO WITH PRICES. IN GENERAL, SMALL STONES ARE USED WHERE CONSIDERABLE HARD DRILLING IS MET WITH.

DRILL STONES ARE AS HARD AS THE FINE WHITE DIAMONDS PRIZED AS GEMS -- HARDEST SUBSTANCE KNOWN; THEY HAVE NEARLY THE SAME SPECIFIC GRAVITY BUT THEY SHATTER MORE READILY, THE BUREAU OF MINES EXPLAINS. THE BLACK DIAMOND, WHICH HAS A DULL VITREOUS LUSTER, LOOKS LIKE A SMALL CINDER OR PIECE OF COKE AND COMMONLY HAS A GRAYISH GREENISH OR REDDISH CAST. BORT ALSO, AS SEEN EMBEDDED IN A DRILL BIT, IS DARK AND HAS A DULL LUSTER.

DIAMOND DRILLING IS NOT A NEW THING. IT IS CALLED THE OLDEST FORM OF CORE DRILLING KNOWN. SCIENTISTS CLAIM THAT THE ANCIENT EGYPTIANS USED A FORM OF DIAMOND CORE DRILL. ABOUT 1863, IN HIS EFFORT TO MAKE A CORE DRILL WEAR LONGER, A FRENCH ENGINEER INVENTED THE MODERN DIAMOND DRILL. INFORMATION ISSUED BY THE BUREAU OF MINES NEARLY 20 YEARS AGO SHOWS THAT IN ITS ESSENTIALS THE DIAMOND DRILL HAS CHANGED LITTLE SINCE THEN.

DIAMOND DRILLS WENT INTO USE AT GRAND COULEE DAM IN THE EARLY 20'S. BEFORE 1933, ARMY ENGINEERS AND THE STATE OF WASHINGTON SUNK 16 HOLES TO EXPLORE BEDROCK FOR FOOTAGE

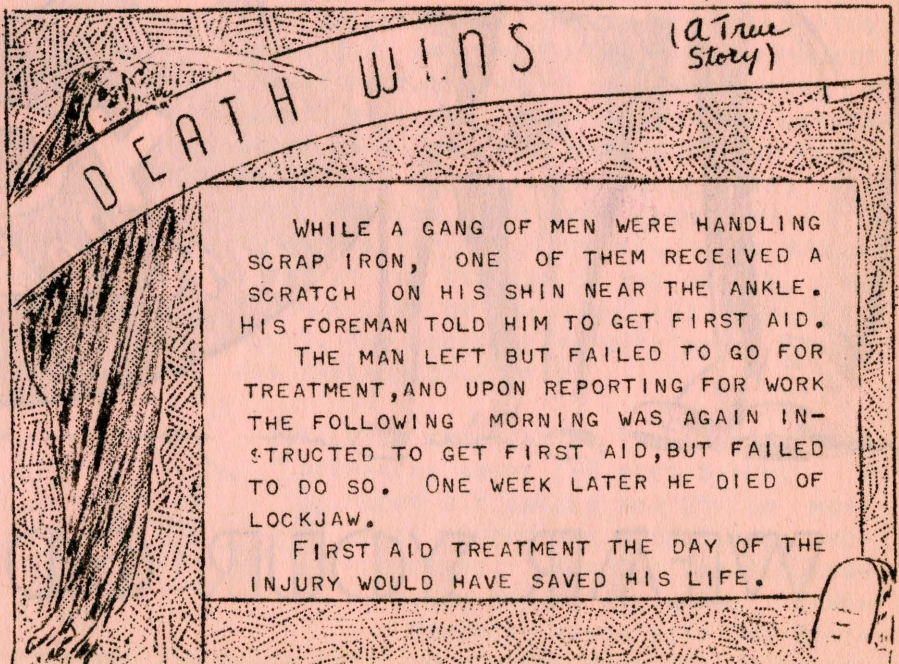
TOTALLING 2229 FEET AND IN 1933 AND 1934 LYNCH BROTHERS DRILLED 21,200 LINEAL FEET FOR 123 HOLES FOR THE COLUMBIA BASIN COMMISSION. SINCE THAT TIME DIAMOND DRILLING HAS BEEN CARRIED ON BY THE BUREAU OF RECLAMATION, MWAK AND CBI. LYNCH BROTHERS IS DRILLING FOR CBI. DIAMOND DRILLING HERE HAS THREE SINGLE OR COMBINED PRIMARY PURPOSES: (1) GROUTING, (2) EXPLORATION AND INSPECTION AND (3) DRAINAGE.

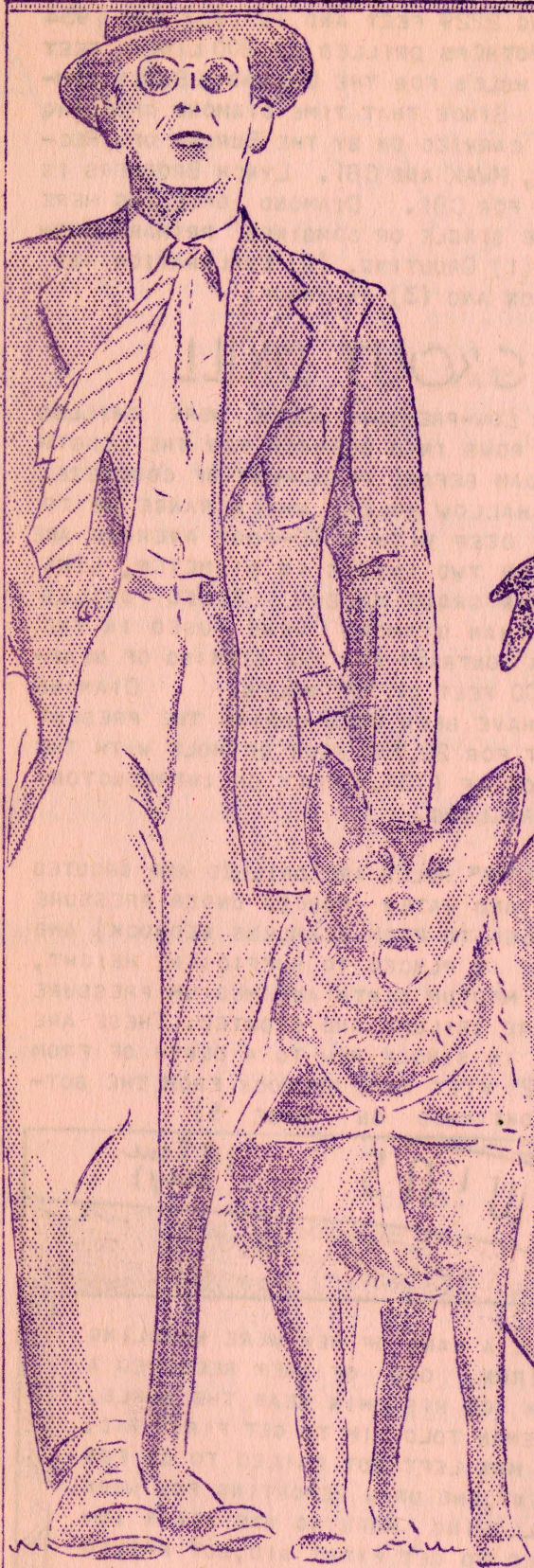
GROUT DRILL

"B" OR LOW-PRESSURE HOLES WERE DRILLED IN FIVE ROWS INTO BEDROCK FOR THE LENGTH OF THE DAM BEFORE PLACEMENT OF CONCRETE. THESE SHALLOW HOLES, WHICH RANGE UP TO 50 FEET DEEP WITH A 30-FOOT AVERAGE ARE LESS THAN TWO INCHES IN DIAMETER, LIKE THE OTHER GROUT HOLES. STEEL DRILLS RATHER THAN DIAMOND WERE USED IN THE PREVIOUS CONTRACT FOR THE SINKING OF NEARLY 34,000 FEET OF "B" HOLES. DIAMOND DRILLS HAVE BEEN USED DURING THE PRESENT CONTRACT FOR 20,565 FEET OF HOLE WITH THE EXCEPTION OF 1784.5 FEET OF INTRODUCTORY STEEL DRILLING.

AFTER "B" HOLES ARE DRILLED AND GROUTED (CEMENT AND WATER FORCED UNDER PRESSURE INTO HOLES TO FORM SEAMLESS BEDROCK) AND CONCRETE IS PLACED TO SUFFICIENT HEIGHT, "C" OR MEDIUM DEPTH AND MEDIUM PRESSURE HOLES ARE DRILLED AND GROUTED. THESE ARE DRILLED IN SINGLE ROW TO A DEPTH OF FROM 30 TO 125 FEET INTO BEDROCK FROM THE BOT-

(CONTINUED ON PAGE 5)



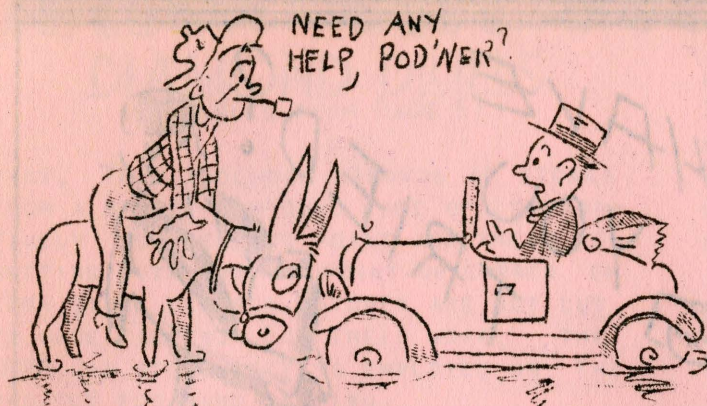


*You
may need*

**A DOG
TO GUIDE
YOU**
unless you

WEAR YOUR GOGGLES

National Safety Council



SAFE PRACTICES WOULD FORM HABITS WHICH WOULD PREPARE ONE FOR ANY EMERGENCY -- EVEN LIKE THAT ABOVE.

DIAMOND DRILLS

(CONTINUED FROM PAGE 3)

TOM GALLERY IN THE DAM. "C" HOLES HAVE ALWAYS BEEN DIAMOND DRILLED HERE AND TOTAL MORE THAN FIVE MILES (27,918.5 FEET) FOR THE TWO CONTRACTS TO DATE. CBI'S FIGURE IS 13,258 FEET OF WHICH ALL BUT 572 FEET HAS BEEN DIAMOND DRILLED.

"C" DRILLING METHODS ARISE FROM THE EARLY DRILLING OF 5-INCH HOLES FROM THREE TO FIVE FEET INTO BEDROCK. INTO THE HOLES 3-INCH PIPES HAD BEEN PLACED AND, AS CONCRETE ROSE, THEY EXTENDED ABOUT THREE INCHES ABOVE THE FLOOR IN THE 5x7-FOOT GALLERY JUST OFF BEDROCK. INTO ONE OF THESE PIPES A DRILL TUBE AND BIT ARE LOWERED UNTIL CONTACTING BEDROCK; THEN THEY PROCEED TO BORE DOWN INTO THE GRANITE. AS DRILLING PROCEEDS, TUBE COUPLINGS ARE ADDED IN 5-FOOT LENGTHS INSIDE THE GALLERY, INSTEAD OF THE USUAL 10- OR 20-FOOT LENGTHS WHEN ONLY THE SKY IS ABOVE.

"A" OR HIGH-PRESSURE GROUT HOLES ARE THE BIG DRILL ITEMS OF THE PRESENT CONTRACT. THEY RANGE IN DEPTH FROM 50 TO 500 FEET AND ARE DRILLED FROM INSIDE THE DAM LIKE "C" HOLES. BECAUSE THEY FOLLOW "B" AND "C" GROUTING AND REQUIRE THE WEIGHT OF A VAST AMOUNT OF CONCRETE ON BEDROCK, "A" DRILLING HERE IS ALMOST EXCLUSIVELY A PART OF THE PRESENT CONTRACT. LESS THAN 2000 FEET HAD BEEN DRILLED HERE PREVIOUSLY FOR THE "A" HOLES. DURING THE PRESENT CONTRACT 14 1/3 MILES -- 75,750 FEET -- OF "A" HOLES HAS BEEN DRILLED; 1304 FEET WAS BY STEEL. SEVERAL DRILL

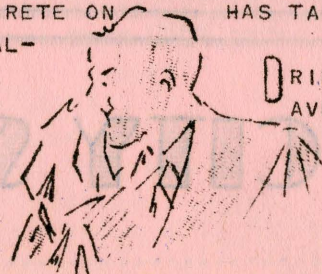
PERIODS ON A VERY DEEP, HIGH-PRESSURE "A" HOLE MAY HAVE INTERVENING PERIODS OF GROUTING. A VERY SMALL AMOUNT OF "A" DRILLING HAS BEEN DIRECTLY THROUGH CONCRETE INTO BEDROCK.

AMONG "A" HOLES DRILLED ARE 10 500-FOOTERS, FROM THE BOTTOM OF WHICH LYNCH BROTHERS HAS FOUND THEY CAN REMOVE CORES AND PIPE IN ABOUT 45 MINUTES. BORINGS ARE ALSO MADE INTO ROOF AND FLOOR OF THE EAST AND WEST ABUTMENT GROUT-DRAINAGE TUNNELS.

OTHER IMPORTANT DRILLING NOW RECEIVING CONSIDERABLE ATTENTION FROM THE BOTTOM GALLERY INSIDE THE DAM ARE 3-INCH DRAIN HOLES TO CATCH ANY SEEPAGE WATER WHICH MIGHT PASS THE WALL OF GROUTED BEDROCK. 1/3 MILE (137 FEET) OF WHAT MAY EVENTUALLY BE NEARLY 10 MILES HAVE BEEN DRILLED TO 50-FOOT DEPTHS. CORES ARE ALSO TO BE REMOVED FROM OTHER DRAIN HOLES UP TO 200 FEET IN DEPTH.

ALTHOUGH DIAMOND DRILLS NORMALLY REMOVE CORES, NEARLY 60 PER CENT OF THE DIAMOND DRILLING FOR THE DAM FOUNDATION DURING THE PRESENT CONTRACT HAS BEEN UNCORED DRILLING OF "A" HOLES. THIS WORK IS DONE WITH A SOLID FACE BIT STUDDED WITH BORT CRYSTALS AND GREASED BY WATERCOURSES TO WASH OUT CUTTINGS AND TO KEEP THE BIT COOL ALL USBR DIAMOND DRILLING HERE IS CORE WORK FOR EXPLORATION, INSPECTION, TESTING.

FIGURES HAVE BEEN TOTALLED THIS WEEK FOR DRILLING BY BUREAU OF RECLAMATION EMPLOYEES ON THE COLUMBIA BASIN PROJECT. LINEAL FOOTAGE FOR 15 DIFFERENT SITES OF BUREAU DRILLING, RANGING FROM THE LEAVENWORTH AREA ON UP TO BEYOND KETTLE FALLS, SHOWS THAT USBR DIAMOND DRILL CORES HAVE BEEN REMOVED FROM OVER EIGHT MILES OF DRILLING (42,818.7 FEET). THE ANKENY SITE, AT THE FAR END OF THE COULEE, TOOK 50 PER CENT OF THE DRILLING (21,324.2 FEET). THE COULEE CITY SITE, JUST BEYOND, HAS TAKEN 9435.2 FEET.



DRILLING FROM INSIDE THE DAM HAS BEEN AVERAGING ABOUT 185 FEET DAILY. A BORT BIT DRILLS FOR 25 OR MORE FEET BEFORE THE STONES NEED RESETTING. WHEN THE EXPOSED EDGES OF STONES ARE WORN, LYNCH BROTHERS SENDS BITS TO SEATTLE WHERE THEY ARE MACHINE-

SNEEZE AND COUGH INTO YOUR HANDKERCHIEF

(CONTINUED ON PAGE 7)



HAVE YOU TRIED?



FROZEN FOODS



ECONOMICAL & TASTY

ASPARAGUS	29¢	GREEN BEANS	19¢
BROCCOLI	21¢	GREEN PEAS	20¢
BABY LIMAS	27¢	RASPBERRIES	29¢
BLACKBERRIES	29¢	SPINACH	20¢
SLICED PEACHES	23¢	STRAWBERRIES	23¢
CORN ON COB	6¢	CUT CORN	19¢

MASON CITY STORES

MASON CITY HOUSES OPEN TO TENANTS

DIAMOND DRILLS (CONTINUED FROM PAGE 5)

CAST. THIS INCLUDES REMOVAL OF STONES FROM A BRONZE COMPOUND FACE OF COMPARATIVELY LOW MELTING POINT AND THEIR RESETTING WITH ANOTHER POINT OR CORNER OF EACH STONE EXPOSED. STONES ARE NOT CUT TO HAVE FACETS. FOR THEIR WORK, THE USBR HAS STONE SETTERS EMPLOYED ON THE PROJECT FOR HAND SETTING.

DIAMOND DRILL BITS USED INSIDETHE DAM USUALLY REVOLVE FROM 400 TO 500 TIMES A MINUTE. BITS NORMALLY LAST ABOUT EIGHT HOURS BEFORE RESETTING.

AMONG USBR DRILL ITEMS WHICH ARE NOT DIAMOND DRILLED ARE TOTAL FOOTAGE OF 7816 FOR USBR CHURN DRILLS AND 1013.8 FOR 24 CALYX HOLES, 18 AT LEAST OF WHICH WERE 36 INCHES IN DIAMETER. CALYX CORE DRILLS ARE FED LOOSE MANGANESE SHOT BENEATH THE BIT FOR CUTTING.

AS THE RESULT OF SOME VACANCIES AMONG HOUSES IN MASON CITY, 1-ROOM COTTAGES AND 3- AND 4-ROOM FAMILY HOUSES ARE OPEN FOR RENTAL TO EMPLOYEES OF CBI AND THE BUREAU OF RECLAMATION. APPLICATIONS ARE BEING RECEIVED AT THE CBI CAMP OFFICE FOR THESE HOUSES.

DEPARTMENTAL SAFETY STANDINGS FOR DECEMBER

1. PIPES, PUMPS & CURING
 2. ELECTRICAL
 3. MATERIAL & LABOR
 4. REINFORCING STEEL
 5. COOLING & GROUT PIPE
 6. CARPENTER
 7. ELECTRIC CITY, RAILROAD, BLENDING PLANT, ODAIR
 8. CONCRETE
 9. MECHANICAL & TRANSPORTATION
 10. TRESTLE
 11. DRUM GATES
 12. EXCAVATION
 13. GRAVEL PIT, PLANT, CONVEYOR, MIX PLANT
- HONOR ROLL: CARPENTERS; ELECTRIC CITY, RAILROAD, BLENDING PLANT; MATERIAL & LABOR.

DIAMOND DRILLING (ONLY) FOR COLUMBIA BASIN PROJECT TO JANUARY 1, 1941

	FEET	<u>GRAND TOTAL</u>
ARMY ENGINEERS AND STATE OF WASHINGTON (BEFORE 1933)	2,229	
COLUMBIA BASIN COMMISSION (1933-34)	23,429	
TOTAL, EARLY DRILLING.....	25,658	
---- MWAk CONTRACT ----		
"C" GROUT HOLES	13,685.8	
SUCCESSIVE "C"	974	
SPECIAL "A"	203	
WEST SLIDE EXPLORATION	4,780	
MISCELLANEOUS	* 102	
*TOTAL, MWAk	19,744.8	
---- CBI CONTRACT ----		
"B" GROUT HOLES	18,780.5	
"C" GROUT HOLES	12,676	
"A" GROUT HOLES	74,446	
DRAIN HOLES	1,641	
MISCELLANEOUS (TRASHRACK SUPPORTS, ANCHORS, ETC.)	1,342.44	
TOTAL, CBI.....	108,785.94	
---- USBR ----		
BALANCING RESERVOIR	331,720.1	
UPRIVER	5,347.7	
WEST SLIDE AREA	1,854.5	
PUMPING PLANT, POWER HOUSE, DAM	1,857	
LEAVENWORTH AREA	1,546.2	
RUBBLE MASONRY WALLS	493.2	
TOTAL, USBR.....	42,818.7	197,007.44

* DOES NOT INCLUDE A SMALL ITEM ON 4 3/4-INCH CORES NOT FIGURED ON A FOOTAGE BASIS.

WEEK-END BRINGS OMAK, SPOKANE TO C.B.I. GYM

SPORTS FOLLOWERS OF BASKETBALL HAVE SOME OF THE CHOICEST BASKETBALL BREAKING INTO COMING DATES.

PRECEDING THE VISITS OF NATIONALLY-KNOWN TRAVELING TEAMS, THIS FRIDAY NIGHT ON THE CBI FLOOR THE COULEE DAM DYNAMOS, WITH A CREDITABLE RECORD, MEET BARCLAY'S PHOTO, TOP-FLIGHTER IN THE SPOKANE COMMUNITY LEAGUE.

ON THE FOLLOWING NIGHT (SATURDAY), MASON CITY HIGH SCHOOL FACES OMAK, ALWAYS ONE OF THE "TEAMS TO BEAT" IN THE COUNTY. ON THE SATURDAY FOLLOWING, WENATCHEE HIGH WILL PAY A VISIT TO THE MASON CITY GYMNASIUM.

ON WEDNESDAY (JAN. 29) THE RIB-TICKLING "HOTTENTOTS", CLAIMANTS TO THE AAU COLORED TITLE, WILL CAVORT WITH THE DYNAMOS. OTHER DYNAMO DATES ARE: TO OMAK, SAT., FEB. 1 (TENTATIVE); TO WILBUR, THURS., FEB. 6; MON., FEB. 10, HERE, HARLEM GLOBE TROTTERS.

GRAND COULEE HIGH SCHOOL BASKETEERS JAUNT TO COULEE CITY FRIDAY AND TO MARLIN THE FOLLOWING FRIDAY, WHILE MASON CITY MOVES TO NESPELEM THIS FRIDAY.

ATHLETIC ASSOCIATION TO ELECT OFFICERS

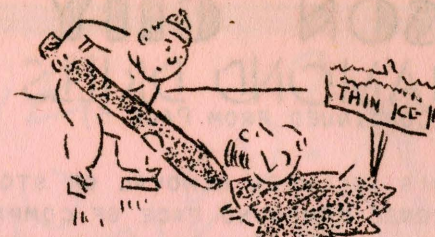
ELECTION OF PERMANENT OFFICERS WILL BE HELD AT THE NEXT REGULAR MEETING OF THE COULEE DAM ATHLETIC ASSOCIATION, FRI., FEB. 4, IN THE USBR SCHOOL HOUSE. AN ORGANIZATION COMMITTEE OF FIVE, REPRESENTING THE ENTIRE AREA, MET THIS WEEK FOR A LIST OF CANDIDATES TO RECOMMEND.

EIGHTY-FIVE MEMBERS HAVE NOW PAID DUES INTO THE ASSOCIATION, AND PROCEEDS HAVE PASSED \$230.

WHEN THE SECOND HALF OF THE NFFE BASKETBALL LEAGUE GETS UNDER WAY, AN EIGHTH TEAM MAY BE ADDED. A TEAM ORGANIZING AT NESPELEM HAS ASKED PERMISSION TO ENTER.

MASON CITY WON THE FIRST HALF TITLE.

PREVENTING ACCIDENTS IS EASY IF YOU GO AT IT HARD; BUT ON THE OTHER HAND IT IS HARD IF YOU GO AT IT EASY.



I WOULD HAVE HELPED YOU SOONER BUT I THOUGHT YOU WERE A WALRUS

IMAGINE THE SHOCK SARGE KULBERG RECEIVED WHEN HE SAW THE COLD AND CHISELED AND PULSELESS FACE OF A WOMAN IN HIS BED.

SOMEBODY SOMEWHERE HAD BORROWED A STORE DUMMY.

????????????????

IF THE SUNSHINE WILL GO AWAY AND SNOW WILL ONLY COME AGAIN, IT IS SAID THAT CARL JONES WILL AGAIN TAKE UP SKIING DESPITE ITS CALLING FOR A LITTLE EXERCISE!

!!!!!!!!!!!!!!!!!!!!

IT IS ALSO SAID THAT SOME TIME IN THE FUTURE, HOWEVER DISTANT, REX HAMBY MAY JOIN AN ANTI-AIRCRAFT BATTALION. AN EXPERIENCED GUNNER IN LOADING AND UNLOADING A BARRELLED WEAPON, HE ENJOYS FIRING SKYWARD. A LITTLE ROUND HOLE IN A CEILING TESTIFIES TO SOMETHING.

#####

ANOTHER REPORT COMING IN BY SHORT WAVE IS THAT CHARLES PARSONS OF THE USBR SAFETY DEPARTMENT SUFFERED A SERIOUS ACCIDENT. AT LEAST HE SUSTAINED A SERIOUS TEAR IN THE SEAT OF HIS TROUSERS.

.....

(RUSS HEYSELL STILL DENIES IT).

CIVIL SERVICE EXAMINATIONS -- APPLICATIONS RECEIVED UNTIL FURTHER NOTICE FOR JUNIOR COMMUNICATIONS OPERATOR (HIGH-SPEED RADIO EQUIPMENT); ENGINEERING DRAFTSMAN, VARIOUS GRADES AND OPTIONAL BRANCHES; INSPECTOR (SUBSISTENCE SUPPLIES).

CLOSING APPLICATION DATE, JAN. 27 ---- PAINTER IN STATE OF WASHINGTON.

FEB. 10 - BLACKSMITH, OTHER FIRES; FOUNDRY CHIPPER, AND RIGGER, PUGET SOUND NAVY YARD; ENGINEMAN, STEAM ELECTRIC, FOR MCNEIL ISLAND PENITENTIARY; POWER LINE FOREMAN FOR BONNEVILLE POWER ADMINISTRATION.

FEB. 20 - ASSISTANT HOME ECONOMIST (VARIOUS FIELDS); HOME ECONOMICS SPECIALIST IN FOOD UTILIZATION, AND ASSOCIATE; MEDICAL GUARD-ATTENDANT; PHYSIOTHERAPY AIDE; PSYCHIATRIC NURSE; JUNIOR VETERINARIAN.

FURTHER INFORMATION: M.M. SMITH, USBR ADMINISTRATION BUILDING.

HOME GUARDS SEE HOW "FIRE BOMBS" SLASH THROUGH STEEL

How AN INCENDIARY BOMB CAN SLICE INSTANTANEOUSLY EVEN THROUGH STEEL WAS ILLUSTRATED BY ACTUAL THERMITE DEMONSTRATION TUESDAY NIGHT IN THE ORGANIZATION MEETING IN THE CBI MESS HALL OF COMPANY D, ANTI-TANK BATTALION, OF THE WASHINGTON STATE GUARDS.

WITH MOST OF THE HOME-ENLISTED CITIZENS ON HAND, CAPTAIN C.C. BEERY EXPLAINED THE PART HOME DEFENSE MUST PLAY IN THE NATION'S DEFENSE PROGRAM. LIEUTENANT FRED J. SHARKEY STRESSED THE IMPORTANCE OF MILITARY DISCIPLINE; LIEUTENANT W.H. WISNISKI, OF THE ENGINEER RESERVES, EXPLAINED WHY AMERICANS ARE SUCH GOOD RIFLE SHOTS, AND LIEUTENANT C.B. THORINGTON DEMONSTRATED THE MANUAL OF ARMS. DEMONSTRATION OF AN ACTUAL

HOME-MADE THERMITE "BOMB" WAS BY WENDELL RICE, CHIEF, COULEE DAM FIRE DEPARTMENT.

REGULAR MEETING NIGHTS ARE TUESDAY OF EACH WEEK AT 7:30 IN THE CBI MESS HALL BUILDING NEAR THE CAMP OFFICE.

ONE HUNDRED LOCAL "MINUTE MEN" HAVE BEEN SWORN IN FOR THE PURPOSE OF PROVIDING A TRAINED FORCE FOR HOME DEFENSE, PRESERVING THE PEACE AND TO RENDER AID IF FIRE AND DISASTER SHOULD STRIKE. NEARLY AN EQUAL NUMBER OF OTHERS HAVE APPLIED FOR ENLISTMENT. THIS TESTIFIES TO A KEEN LOCAL INTEREST IN HOME AND NATIONAL DEFENSE.

THE ROSTER OF MEN NOW SWORN IN FOR IMMEDIATE TRAINING FOLLOWS:

THESE HAVE ENLISTED

PAUL S. AIREY, CLERIN C. ARNOLD, OLIVER K. BARNARD, EARL O. BARRETT, CARTER R. BASSETT, CARLISLE W. BEERY, ROBERT F. BENNETT, HENRY C. BOLANDER, CHARLES R. BRIM, WILLIAM A. BRODIN, CLYDE S. BURGE, JOHN R. BURNS, DAVID R. BUSH, WAYNE BUTLER, JOHN H. CAVIN, WILSEY W. CAMPBELL; ROBERT B. CAMPBELL; WILLIAM C. CAMPBELL; QUINTEN A. CONNELLY, JAMES W. CULVERWELL, WALTER G. DAVIS, OSCAR D. DIKE, JAMES A. DIKE JR.; BRADLEY L. DOOLEY, CHARLES B. DOWNING, OSCAR H. EBERHARD, LAWRENCE L. EGBERT, GLENN H. EGGLESTON, JAMES H. ERWIN.

NORTON, HUGH E. ODOR, CHARLES C. OSBORN, THOMAS J. OSTLIFF, WILLIAM C. OVES JR., HARRY A. PALMER, HARVEY G. PARSONS, CHARLES C. PARSONS, BERT E. PRITCHETT; WALTER W. PUDERBAUGH, REX L. PUTMAN, LOWELL R. PYLMAN.

SCOTT M. RAMSEY, ARTHUR G. RICHARDSON, WILLIAM T. ROBERTSON, HAROLD S. ROBINSON, CLYDE V. ROE, HENRY E. ROUSH, HAROLD W. SAMMS, DELBERT D. SAUNDERS, FRANK W. SCHULTZ, FREDERICK W. SCHULZ, MURRAY D. SCOTT, ELMORE A. SKARTVEDT, OSBORNE SLACK, CLARENCE M. SMITH, RUSSELL J. SNYDER, JOSEPH W. STANSFIELD, LAWRENCE J. STEED, THOMAS J. STEVENS, WALKER WILFERTH, RALPH C. WILSON, CHARLES E. WATTS, WALTER I. WINNER.

HARRY B. FELDHAHN, CLARENCE B. FISHER, DONALD J. FLANAGAN, MERLE G. FOISY, GUY E. FULLER, WAYNE H. FULLER, EDWARD M. GORING, CLARENCE W. GRANBERG, WILLIAM D. GRAY JR., WILLIAM E. HARGROVE, MARVIN J. HAWKINS, CLYDE D. HERTLEIN, CHARLES S. HOLLOMAN, WALLACE C. HUBBARD, LESTER S. INCH, ARTHUR H. IRWIN, ROY H. JENSEN, PAUL R. JOHNSON, RICHARD E. JOHNSON, ROBERT E. KAYLER, RICHARD B. KELLY, FRANCIS O. KENEFICK, WILBUR E. KRUGER, WILLIAM O. KURTH, JOHN E. LENTS, JOHN F. LEONARD, CHARLES E. WATTS.

ROBERT D. LIVINGSTON, WILLIAM W. MAIN, WALTER E. MAKI, ALLEN L. MAPES, MELVIN E. MCDUGALL, HERMAN R. MCGLOTHING, ORREN R. MITCHELL, WENDELL T. MULKEY, WAYNE F. MYERS, GAILORD G. NELSON, DAN M. NELSON, ALLEN A. NEUMANN, GRANT J.

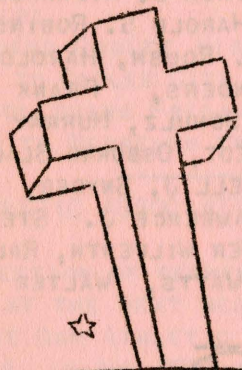
NO ACCIDENTS TODAY

MAKE THIS YOUR PLEDGE.

IT IS ABOUT AS HARD FOR A RICH MAN TO ENTER HEAVEN AS IT IS FOR A POOR MAN TO REMAIN ON EARTH.

PROTECT YOUR

LIFE



ETERNITY IS A LONG TIME!



FIRST POWER UNIT STARTS HUM

WHEN F. A. BANKS, SUPERVISING ENGINEER FOR THE BUREAU OF RECLAMATION, PRESSED A BUTTON AT 2 P.M. WEDNESDAY, WATER RUSHED DOWN A PENSTOCK TO TURN A TURBINE AND GENERATOR AT GRAND COULEE DAM FOR THE FIRST TIME. THE 12,500 KV-A GENERATOR WAS NOT HOOKED UP WITH A TRANSMISSION LINE. OPERATION OF STATION-SERVICE UNIT No. 2 IS A TRIAL RUN OF 10 DAYS TO WARM UP MACHINERY AND DRY OUT COILS. APPROXIMATELY 75 WITNESSED THE OPENING CEREMONY.

THE GENERATOR NOW HUMMING QUIETLY IS ONE OF TWO STATION-SERVICE UNITS TO GO INTO OPERATION THIS YEAR. A THIRD UNIT WILL BE INSTALLED IN THE FUTURE.

MASON CITY HOSPITAL

- JAN. 21, TO MR. AND MRS. E. C. WEST, GRAND COULEE, A SON.
- JAN. 20, TO MR. AND MRS. HUGH ODOR, COULEE DAM, A DAUGHTER.
- JAN. 14, TO MR. AND MRS. W. S. GRAY, GRAND COULEE, A SON.
- JAN. 13, TO MR. AND MRS. CARL A. CRAMER, ELMER CITY, A SON.

INJURIES FROM THE SAME CAUSE RESULTED IN FROM FIVE TO NINE DAYS TIME LOSS FOR C. A. STEPHENS AND S. E. GALLION. THE TWO BURNED THEIR HANDS WHILE HEATING RIVETS FOR DRUM GATES.

AND WHILE CATCHING RIVETS, PAUL JOHNSON SUFFERED A SLIGHT BURN OF THE RIGHT CHEEK AND HAS LOST TIME SINCE JAN. 12.

MRS. CHARLES MCGHEE, MASON CITY, IS HOME AGAIN AFTER A WEEK OF MEDICAL OBSERVATION.

AFTER SEVERAL DAYS OF MEDICAL TREATMENT, MRS. KENNETH CROSIER AND MRS. OTTO ANUSCHAT, MASON CITY, HAVE IMPROVED SUFFICIENTLY TO RETURN TO THEIR HOMES.

JOHNNY PIERSON, 7, SON OF E.L. PIERSON, MASON CITY, HAS RECOVERED AND IS AT HOME FOLLOWING TROUBLE RESULTING FROM AN IODINE BURN OF THE LEG.

DOUGLASS HOFFMAN, 6-MONTH-OLD SON OF L. K. HOFFMAN, ELMER CITY, SPENT 9 DAYS IN THE HOSPITAL FOR UPPER RESPIRATORY INFECTION.

PRESIDENT'S BALL

LET'S GIVE PRESIDENT ROOSEVELT THE BIGGEST BIRTHDAY HE HAS EVER HAD BY HELPING TO STAMP OUT INFANTILE PARALYSIS. WE CAN DO OUR PART BY PURCHASING A TICKET TO THE

DANCE

FRIDAY, JAN. 31

AT
C. B. I. GYM

(INTERMISSION JITTERBUG CONTEST)

AND AT

THE

MOOSE HALL

TICKETS ARE GOOD AT EITHER OR BOTH DANCES -- OR MAY ADMIT ONE COUPLE TO THE ROOSEVELT OR COLUMBIAN THEATRES.

PART OF THE PROCEEDS WILL GO TOWARD THE PURCHASE OF AN IRON LUNG FOR NORTH CENTRAL WASHINGTON.

THE UNITED STATES HAD 10,000 NEW CASES OF INFANTILE PARALYSIS LAST YEAR. SEVEN STATES HAD EPIDEMICS. THE DISEASE ORDINARILY STRIKES CHILDREN, BUT NO ONE MAY BE EXEMPT FROM ITS RAVAGES.

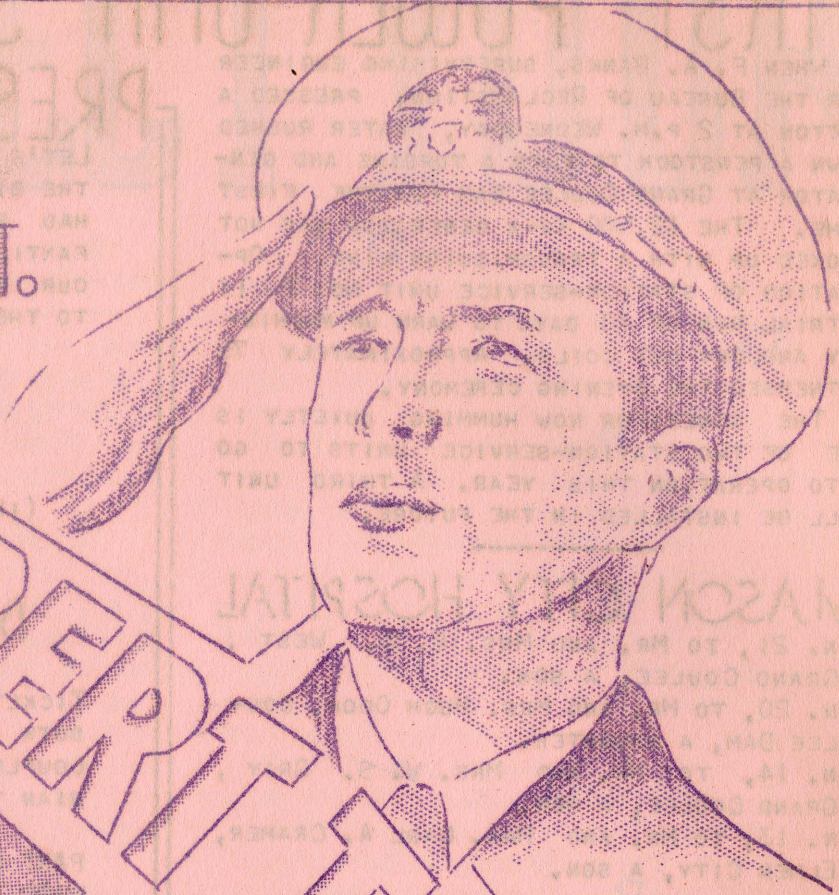
BANDAGE MAKERS NEEDED

ANY PERSON INTERESTED IN MAKING OR LEARNING TO MAKE BANDAGES WILL RECEIVE A VERY FRIENDLY WELCOME AT BANDAGE-MAKING CLASSES OF THE RED CROSS, HELD FROM MONDAYS THROUGH FRIDAYS FROM 1:30 TO 4 P.M. IN WHAT WAS RECENTLY THE EMERGENCY WING OF THE CBI HOSPITAL. THE RED CROSS HAVE ABOUT HALF THEIR QUOTA FILLED AND COULD BENEFIT FROM ADDITIONAL HELP.

THIS IS A PART OF A LOCAL AND NATIONAL "AID-TO-BRITAIN" CAMPAIGN AND TO OTHER REFUGEES AND SUFFERERS OF WAR-TORN EUROPE.

A MINUTE FOR SAFETY IS BETTER THAN A MONTH FOR REPAIRS.

THURS.
FRI.
SAT.



TO
FLIGHT ROBERT
in
COMMAND
D

with

Ruth
HUSSEY

Walter
PIDGEON

MASON CITY THEATRE