



# STEEL FOUNDRY SERVES WAR--MAKES PEACE JOBS

**Electric Furnace Said Only One of Kind in Inland Plants —  
Ship Products East, Reversing  
Old Time Order**

The Lindeman steel foundry is probably the only one of its kind in the area between the coast cities and the Rocky mountains.

This steel foundry was not strictly a "war baby"—even though it has produced quantities of highly essential parts for war and merchant ships, tanks, and other fighting equipment. Lindeman has been buying steel castings for many years for various Lindeman products.

**"Know-how" Got Jobs**

War jobs came to Lindeman because here was a plant already set up, manned by a bunch of fellows who had learned the hard way how to take a rough idea and translate it into finished, workable products. When steel foundries elsewhere got jammed with war orders, Lindeman simply had to have it's own in order to get out the stuff—both war orders and farm machines.

**Train Men Here**

One of the remarkable things about the Lindeman steel foundry is that every man in the place has learned the new technique of steel casting right on the job here. And when you consider that Lindeman steel castings have had to pass some of the world's toughest buyers—like army, navy, etc. you know that Lindeman steel founders have what it takes.

**Furnace Is Heart**

Heart of the steel foundry operation of course is the electric furnace. In this furnace three carbon electrodes create a tremendous arc flame of 6300 degrees, which melts down a "charge" of 1,500 to 2,500 pounds of steel in 1½ to 2 hours.

The steel foundry crew turn off 7 to 8 heats per day in two shifts—depending on whether castings run smaller or larger.

The carbon electrodes, 4 inches in diameter and 3 feet long, burn up fast—one or two must be replaced each day. The furnace lining, fire brick walls and fused silica sand bottom, also burn out.

**Linings Burn Out**

Thirty to ninety heats used to be the limit for the furnace linings. By experimenting, it was found that several slight changes would increase it to twice or three times as

many. The last lining gave 276 heats. This makes a lot of difference in production, because each change means letting the furnace cool down, and "burning in" a new lot'om of silica sand with a gas torch for six hours, then melting a light charge of about 1,000 pounds at the first heat.

One of the changes was setting the electrode circle from 17¼ inches to 16 inches, thus concentrating the arc into a smaller diameter.

**Process Extensive**

The steel foundry has a bewildering array of other equipment, all contributing to the one end—good steel castings. The process starts with the molding—the core room where white sand becomes red with a mixture of ferric oxide; the white sand in the "flasks" which soon becomes black; the elevator which takes used molds to be broken up and the sand reclaimed for further use; the automatic "jolt" machine which jigs down the sand around the patterns, and the hand rammer for compacting.

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**NEW FACES AND NAMES**

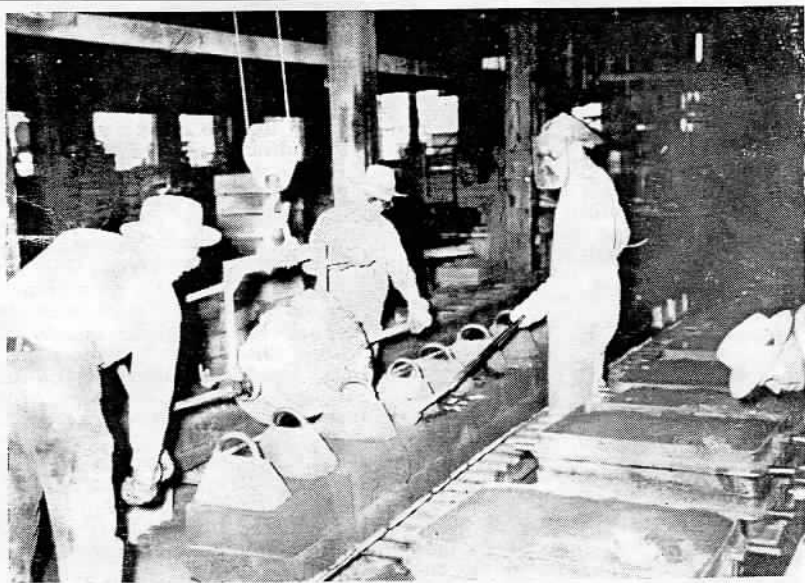
Since the last NEWS CAST 23 new names were on the Lindeman rolls up to June 24th, as follows: Fred Frueh, discharged veteran, cupola tender; four men returned to work, Ervin A. Coady, mechanic, Floyd G. McKenzie, melter's helper, Vernon Pond, molder helper, and Tony Andreas, shakeout.

H. M. Davidson and Charles E. Owen, machinists; Don Cunningham, welder; Woodrow Groenig, Charles H. Snell, mechanic helpers; George C. Link, Delbert McReynolds, Frank Meredith, machinist helpers; Fred Brockman, general helper; Roy V. Foy, L. P. Jarvis, John B. Yates, H. H. Judish, helpers; Everett Bigbee and George Lambert, molder helpers; Dean Ellis, cleaning room; Eleanor Pierce, switchboard, Rosella Burnham, general office.

**Speaking of War Bonds**

The Lindeman war bond account since May 15th, up to June 23rd, totalled \$4,612.50. Inasmuch as this included one \$1,000 and one \$500 bond, it worked out roughly to about \$14.50 average for the rest. Final returns might change this score.

The road to Tokyo is long. Help to pay the boys' way—invest in extra war bonds.



Those are not sad irons you see—just weights to keep molten steel from lifting the top of the mold. Left to right, Foreman Ed Erickson; Albert Fournier, Ed Berry, Vernon Pond.

# NEWS CAST

JUNE, 1945

## EDITORIAL STAFF

Photographers ..... Bob England  
 Johnny Emhoff  
 Cartoonist ..... Bert Degooyer

## REPORTERS

C. I. Foundry ..... Avon Stone  
 Core Room ..... Milton Skrove  
 Foundry Lab ..... Mary Jane Omelina  
 Pattern Shop ..... Galen Sutton  
 C. S. Foundry ..... Joe Normandin  
 Foundry Office ..... Lloyd Rivard  
 Cleaning Room ..... Gib Hunt  
 Machine Shop (nights)..... John Green  
 Beet Loader Assembly and  
 Welding ..... Earl Thomas  
 Engineering ..... Martin Smith  
 Tractor ..... Bob Robinson  
 Stock Room ..... Ray Alexander  
 Hop Picker ..... Fred Robinson  
 Machine Shop ..... Jim Catlin  
 Office ..... Nellie Holder

## NEW COST SYSTEM

By the time you read this most of you will have received, by another means, a copy of a little folder, put out by Link-Belt Company to their employees, explaining the effect of production costs on profits and on the volume of business.

Those of you who work in the Foundry and on tractor parts know that we have recently installed a Cost System so that we may know what our actual production costs are on our castings and on our tractor. Our object is to make it possible, through the study of the facts revealed by this Cost System, to improve our methods to the point where we can sell at a competitive price and still make a reasonable profit. I know that at times the detail work required of you men in the plant may seem irksome, but it is only through the figures you put on your time cards that we can have a picture in the office of where we may be making or losing money. It will be largely through suggestions made by you fellows that losses are discovered and can be corrected.

If you will carefully read the little folder, which the Link-Belt Company has very kindly furnished us, you will see that these facts are brought out very clearly as to the necessity for costs in line with those of our competitors. I think that the last paragraph in the little folder about the customer is something that we should all keep in mind at all times. In case you have mislaid your copy, I want to quote to you again the thought in that paragraph:

**"Remember, always, that it is the buyer of our products—THE CUSTOMER—and he alone, who makes our jobs and keeps them going; but he isn't "crazy in the head" and he won't pay us more for what he wants, if he can get the same value**

for less money, from our Competitor."

With this thought in mind, I know that we can depend on all of you fellows to assist in making our Cost System reflect the actual operations in the shop.

P. H. Austin,  
 General Manager.

## NEW REPORTERS

Note the changes in the NEWS CAST staff. Ray Jordan, obliged to quit on account of ill health, is replaced by Bob Robinson in the tractor assembly. Mary Jane Omelina replaces Daisy Foster in the foundry lab. Gib Hunt is reporter in foundry cleaning instead of Tom Gallagher. Herschel Burke is now on hop picker, and Earl Thomas is reporter for beet loader assembly and welding. Ray Smith, now with the U.S. Forest Service for his health, is replaced by Avon Stone in C. I. foundry.

## GASKINS SEE SON'S SHIP

Ray Gaskin and family on June 7th went to Bremerton at invitation of the U.S. Navy to parents of boys on Ray Gaskin Jr.'s ship. They were served dinner and shown practically everything on the ship from bow to stern.

## COUPAL ON WAY

Raymond Coupal, in a letter to Jess Lindeman, says he was expecting to be shipped out any date from the U. S. Naval receiving barracks at Shoemaker, Cal., where he had then been for a month.

## OFF TO WAR

Milton R. Stevenson, night shift machinist, has been inducted into the army, and Roy Alford, foundry, into the merchant marine.

## FRED FRUEH BACK

Sgt. Fred Frueh is back in the Lindeman foundry after 38 months overseas, in the south Pacific. Fred says he is starting to work again after four years of rest, and accumulated more scratches in his first day on the job than he did in four years of war and five major battles.

## CREATING JOBS

Neither bosses nor governments create or can create productive jobs that pay for themselves. Only customers can do that. Governments can "make work," it is true, but when work is made merely for work's sake, taxes rise or debt is made in proportion. Debt is a dam in the stream of exchange. Like taxes, it puts prices up and so chokes trade.

So the only plans for "making jobs" that interest sensible men are plans for reducing debt, for reducing taxes, or for the revision of debt structures and taxation to reward production and penalize the nonuse of capital.—From an editorial in Chicago Daily News. Reprinted from Link Belt News.

## PFC. HOWARD WITT, JR.



Howard Witt, Jr., air corps ground crew, stopped at Lindeman for a visit with old friends, while enroute from C46 transport school at Buffalo, N.Y., to Austin, Tex. Howard has been in service three years, formerly worked in plow and hop picker departments at Lindeman.

## STEVENSON IN ARMY

Another machine shop man in the army is Milton Stevenson, inducted on June 6 and now stationed at Fort Lewis.

## CARL LEASE PROMOTED

Carl Lease, somewhere in the south Pacific, has been promoted to corporal and is now operating a teletype machine.

## Driver Likes "NEWS CAST"

"I received your letter and the News Cast which I was very glad to get," writes Elmer Driver from the south Pacific to Jess Lindeman. "I hope you will continue to send it. I always like to know about the boys at the plant. They are a swell bunch of fellows."

Driver has been in several islands, including Okinawa, and says the heat reminds him of days when he helped pour in the Lindeman foundry.

## Warninger Reported Due

Report has been heard that Harvey Warninger, who has been a prisoner in Germany, is released and on his way home. He served in the Army air corps, before the army was in Lindeman engineering and foundry laboratory.

## Good Blood Here

Nine persons from Lindeman plant and office were at St. Elizabeth's hospital on one night recently as blood donors, and others have reported on subsequent nights. It was planned to have an exclusive Lindeman night, but the difficulty of getting all preliminary formalities worked out in advance made this impractical.

### MORE PLOWS EXPECTED FOR 1946

Several carloads of Model C Lindeman-made Ferguson plows have been shipped out recently, part of the total allotment of 1,444 of this model for the year 1945. This is the only two-way tractor plow sold by Harry Ferguson, Inc.

Of the Model A plows manufactured in 1939 and 1940, and Model B made in 1941, 1942 and 1943, about 1,500 are now in service in various parts of the west.

An allotment of materials for a much larger order of Model C plows is expected for the year starting July 1, 1945 to July 1, 1946.

### MAN BITES DOG?

You can believe it or not but this is the way our News Cast reporter tells it. He says Ray Gaskin was attacked by a dog which bit him on the leg. Ray retaliated by biting the dog, then was taken to the hospital for treatment of the wound. More fantastic yet is the reporter's further statement that Ray then insisted upon looking up the dog for another round, whereupon the dog's owner promptly called the dog into the house and offered to pay for a test on Ray to see if he might have infected the dog! Ray says he has never felt better.

### JORDAN QUILTS TRACTOR

Ray Jordan of the tractor department has had to quit because of poor health. It is reported he plans to sell his home here and move to Colorado.

### MORE TRACTOR ENGINES

Another shipment of John Deere engines and transmissions for more tractor assemblies is expected about the middle of July.

### STAMPS—SCHANZ

The \$10 war stamp award for introducing a new employe at Lindeman has been given to George F. Schanz for introducing Jacob J. Manda, machinist. Only requirement for this award is that the new worker stay at least 90 days. See the bulletin board or your foreman for details on the New Employee Award.

### COME ON, WALTONS!

Fish ladder is up, and Bob Driver got the first step up with a 7 ounce trout. Any fisherman around the place who can beat that—the field is open.

### PICNIC—Watch for Date

Plans are afoot for a Lindeman picnic soon. Watch for announcement of place and date, which may be before another NEWS CAST. Committees are working on the affair.

### SHEFFER IS INVENTOR

Al Sheffer of the machine shop has figured out an attachment for a center finder which can be used on a milling machine, and would be about twenty times as accurate as a wiggler used for the same purpose.

### FAMILY AFFAIRS

Born to Mr. and Mrs. Jack Perry, May 28, a boy, who has been named John Iver.

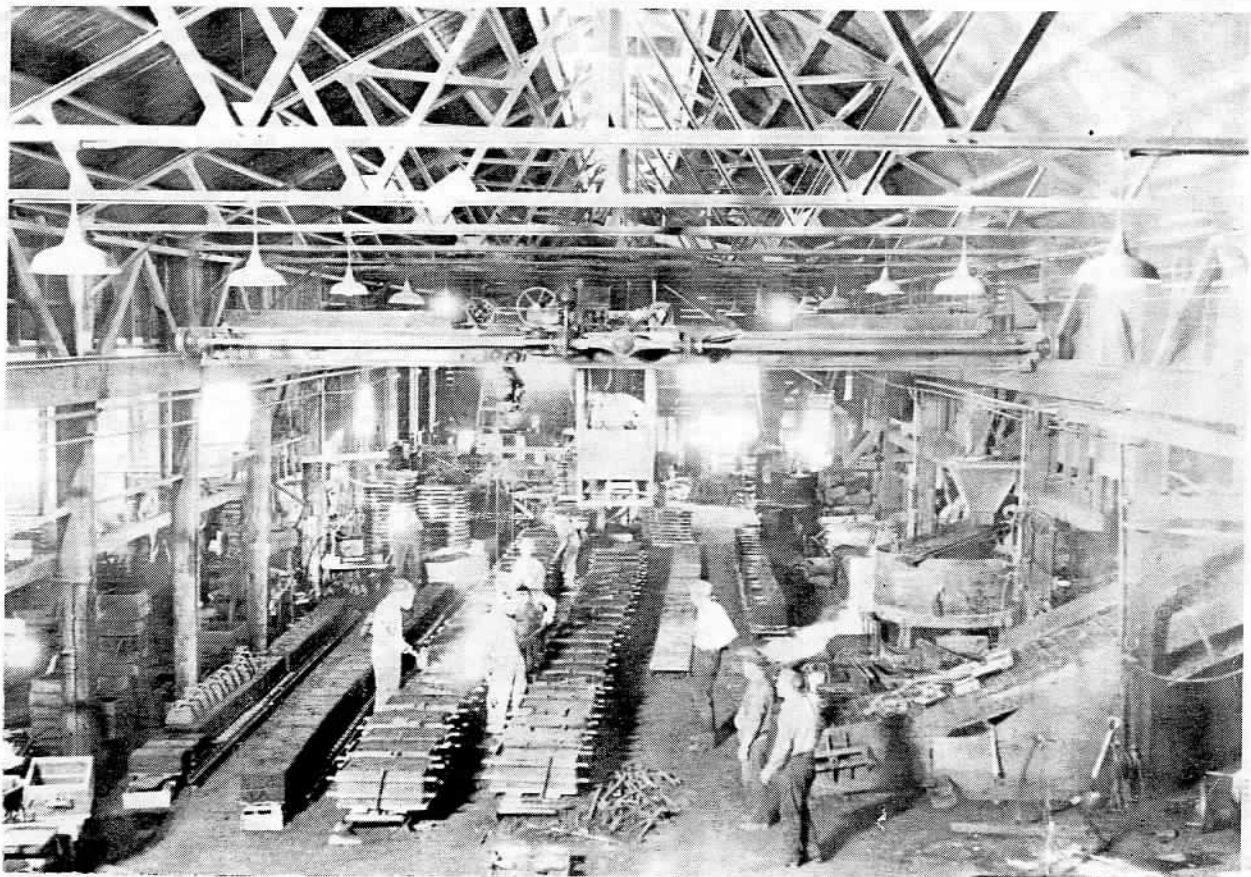
Born to Mr. and Mrs. Arlo Stevens, June 11, a girl, at St. Elizabeth's hospital, to be named Susan Jane.

### Heat Steals Body Salt

Distributed throughout the muscles of the body are about 35 grams of salt.

Excessive perspiration, in hot weather or on hot jobs, may cause sweating away of two to seven grams of salt in an hour. Presently there is "heat sickness"—unless this lost salt is replaced.

Use of salt tablets helps to avoid this heat sickness. For convenience, a salt tablet dispenser is located in the foundry lavatory and another is near the drinking fountain at the parts counter in the main building. Other dispensers have been ordered for the tractor department and machine shop, will be installed soon near drinking fountains.



A typical day in the steel foundry, pouring Ferguson plow parts, some tractor parts and block sides. William Donaldson does the heavy lifting with his overhead crane.



**HE WOTS NOT! \***

Dangers lurk, but little "Wotsie!" The sign on the tool room door said "KEEP OUT," in large plain letters, but little Wotsie!

"Wotsie doing in here?" shrieked the tool room boss, whom we will call L.R., and who keeps a bludgeon under the counter for intruders. Ah, little Wotsie!

\*"Wot", an old English word meaning to know or realize.

**CORE ROOM ITEMS**

Bert De Gooyer had the misfortune to break his glasses, which made it necessary for him to lay off work until he could get them fixed.

Fred Maltby was recently laid up at home for two weeks. The boys all wish him speedy recovery and return to work.

Bert De Gooyer fished a couple of days at Bumping Lake, but found it too cold and windy and came back to the Yakima river before he found fish.

Wonder what it would be like in the core room if:

Carl Baker came to work without his pipe;

Phil Jackim found no fault with his core box;

Bert De Gooyer waited until 4:30 to check his ovens;

"Kenny" and "Ed" from steel and iron foundry came in hollering for "Roller."

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**Rough Castings Travel**

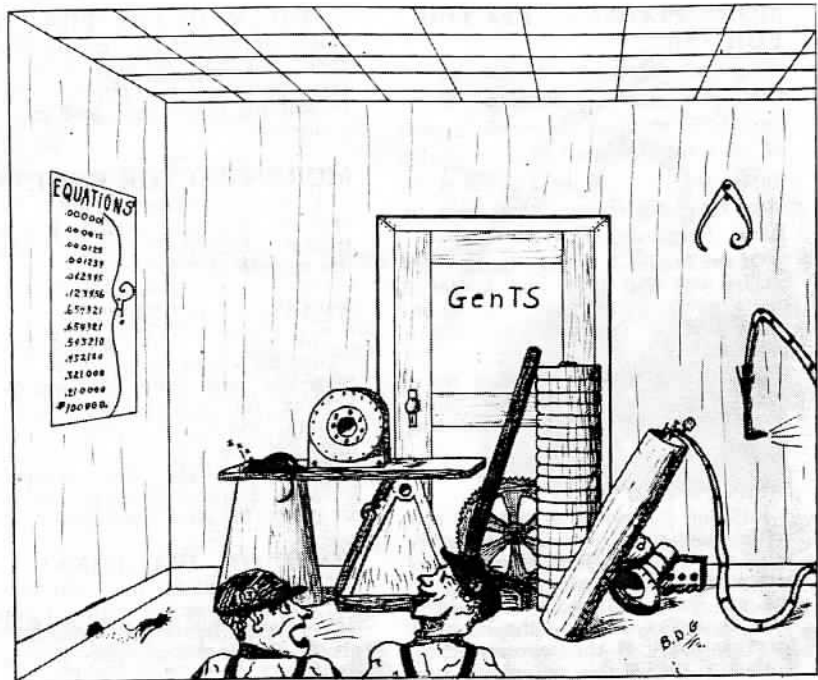
The rough castings go first to the burners, who use five tanks of oxygen and a tank of carbide per day in burning off "gates" and "fins"; to annealing furnace, to the rotary blast for smoothing in an air-driven blast of shot and grit—it takes some 200 pounds of this per day. Final operation, if castings are to be shipped, is grinding with a big stationary wheel, and weighing out for shipment.

**Biggest Casting**

Largest single casting turned out by the steel foundry was a bed plate for a hydraulic hop press. This weighed 3,500 pounds gross, and took an extra heavy furnace charge.

Average production runs 70,000 to 80,000 pounds per week.

The steel foundry is superintended by W. C. "Shorty" Jones, and steel foundry foreman is Ed Erickson. Jack Perry is steel foundry foreman on second shift.



"You First, My Dear Gaston"

It will take more than a table of equations to figure this one out!

The records in "Shorty" Jones' office show that since July, 1942, the steel foundry has actually poured from the furnace 13,072,640 pounds of steel. This does not mean weight of castings, as some of each pour goes back into the furnace for re-melting in the form of gates, fins, etc. and there is some actual loss in cleaning and in re-melting. But 6,531 tons is still a lot of steel in a comparatively small plant.

**LEGION CITES FIRMS**

Lindeman Power Equipment Co. was one of fourteen Yakima firms to be cited by Logan Wheeler Post, American Legion, at a luncheon in the Legion Club on Tuesday, July 3, for "sincere and patriotic cooperation in employing veterans."

Guest, to host in new house: "Bud, how do you find it here?"

Host: "Just walk upstairs, then two doors to the left."

—The Broadcaster.

**MIGHT TRY RED!**

Lewis Rogers in the tool crib is wondering if the Irish are collecting flags for an uprising, as he is missing an awful lot of those green rags supplied for wiping tools. He doesn't know whether the color runs or not but the rags have sure been running out by hundreds. The rags should be turned in, as they are laundered and can be used many times.

**Lindeman Wins "Pennant"**

Whatever the flag may be in the Yakima Jr. Chamber of Commerce baseball league, the Lindeman team won it Monday evening July 2 by making it five straight, in a game with the Gyro club team. Score 13-2.

WANTED—a lawn grass seed that will grow one inch high and then stop.

This "security" we hear about might make loafers of us all.



The "Mule", left, does it's stuff, shoving a carload of Ferguson plows from Lindeman plant to the main line. Right, "Mule" bucks when overloaded!