

# NEWS VIEWS

Vol. 3, No. 10.

"What C. & H. Folks Are Doing"

August, 1945

## GENERAL MANAGER A. H. WOHLRAB COMMENTS ON COMPANY'S FUTURE

During the past several years our Government has been in dire need of every pound of copper it could procure. In order to obtain maximum production, some copper mines having a cost of production in excess of the 12¢ per pound ceiling price of the metal were paid a premium to encourage additional production. At present all Calumet and Hecla mining operations and both reclamation plants are dependent upon this premium for an operating profit.

The three mines at the south end of the county—namely, Copper Range, Quincy, and Isle Royale, have been operating under special price or cost-plus agreements with the Government. These agreements can be terminated whenever the Government decides that its copper requirements can be supplied by lower cost producers. Since the Government is contemplating the discontinuance of the purchase of copper under the special prices or cost-plus agreement obtaining at Copper Range, Quincy, and Isle Royale, it would seem that its supply of refined copper is adequate for its present needs.

Calumet and Hecla will not be affected at present by this curtailment because about a month ago Congress extended the premium price plan, under which we are operating, to July 1, 1946. President Truman has agreed to the extension, provided the premium prices are paid only as long as there is an urgent need for copper. Should the premiums be discontinued, it will seriously affect every operating unit of the Company.

If it should happen that the premium price of copper is discontinued and the 12¢ per pound ceiling price restrictions for copper are removed, supply and demand would then presumably govern the price of copper. Under these conditions Calumet and Hecla will be able to carry on its operations, without loss, only if the demand for copper is great enough to stabilize the price per pound at a sufficiently high level.

Calumet and Hecla has always maintained a deep interest in the communities where its operations are being carried on, and also in the welfare of its employees. It has endeavored to continue operations even under adverse conditions, and has given employment to as many people as conditions and future prospects of the Company would permit. It will continue to do so.

In order to perpetuate the mining industry in this district, the Company

has carried on a comprehensive exploratory campaign for a period of 25 years in the hope of finding other commercial lodes to replace the once world-famous Calumet conglomerate. Millions of dollars have been spent in this endeavor. This money could have been spent in ventures in Canada or other unexplored districts which might have had brighter prospects, but because of its loyalty to the Copper Country, Calumet and Hecla has consistently adhered to the policy of conducting most of its exploratory work in this area.

Realizing that it was becoming increasingly difficult to continue profitable mining operations because of the low grade of Michigan copper ores, as compared with the grade in other districts, the Company entered the manufacture of copper products in the hope that although no profit might be obtained in mining copper, a sufficient profit could be obtained from the finished product to permit the continuance of mining operations in this district. With this in view, the Wolverine Tube Company was acquired by the Company. Because of the encouraging results from this enterprise, as well as the successful venture into the field of secondary copper treatment, plans are now being made to enter more extensively into the manufacture, in this district, of various chemical copper products.

The foregoing constitutes an outline of what the Company is doing to improve its present and future position in the copper industry and to prolong the life of the district. However, other things can also be done

to assist in this endeavor; namely, a lowering of the cost of producing copper to the point where our mining operations would not be dependent upon the premium price we are now receiving. This can be accomplished to a great extent by increasing efficiency through the wholehearted cooperation of every employee interested in the existence of this district as a copper producer. It can also be accomplished by the careful use and handling of tools and supplies, and by showing up on the job regularly, thereby reducing absenteeism to a minimum. It is of vital interest, from top management throughout the entire organization, to see that our costs are lowered. No company can operate continuously at a loss. Since our jobs are dependent on lower costs, we feel certain each and every employee will cooperate to the fullest extent.

## WINS "E" AWARD AGAIN

For the second time, Calumet Division has won the Army-Navy "E" Award.

In a letter dated August 18th, Robert P. Patterson, Under Secretary of War, commends the men and women of Calumet and Hecla for having "maintained the high standard which won you distinction more than six months ago. . . ." He states further; "The White Star, which the renewal adds to your Army-Navy Production Award Flag, is the symbol of appreciation from our Armed Forces for your continued and determined effort and patriotism."

All members of the Calumet and Hecla family can indeed be proud of the enviable record maintained, which resulted in this second recognition by the Armed Forces.

## NEW SIGNAL SYSTEM INSTALLED IN SHAFTS

The problem of signaling to the hoisting engineer from the cage in a mine shaft has been given considerable thought and attention by engineers and mine operators, and several systems have been worked out quite satisfactorily in vertical shafts where it is possible to suspend a wire down the shaft and maintain a definite distance from the cage or skip. These systems were not adaptable to our incline shafts. Mr. R. L. Rutherford, Engineer for the Magma Copper Company of Superior, Arizona, has developed a system whereby he uses the hoisting rope to convey the signal.

The system consists of a transmitter mounted on the cage and a receiver located on surface. The hoisting rope and ground are the carrier mediums. The transmitter is a single-tube tone modulated oscillator mounted in an aluminum case. Power is provided from a storage battery and a pull switch is used to give the signal. One wire from the transmitter is permanently fastened to the cage and the other clamped to the rope about 10 feet above the socket. When a signal is given, an electrical impulse of high frequency is induced along the rope. At the surface a looped aerial is installed with one leg of the loop paralleling the rope which picks up this impulse through the receiver where it is amplified to light a lamp and operate a horn, thereby giving both a visual and audible signal to the engineer.

This system, known as The Electronic Mine Shaft Signal System, has been installed at No. 3 and 4 shafts, Ahmeek, No. 4 Kearsarge shaft and No. 2 Centennial shaft, and will be used for emergency, shaft repairs and at other times when it is necessary to signal from the cage. It is not intended to supplant or replace the present signaling system for regular use. Portable transmitters have been provided for use on the skips at Ahmeek to be used with the skip when making shaft repairs or inspections.

The ability to signal from a moving cage has many definite safety features and the results of this system are being watched with interest.

This system works equally well in vertical and inclined production shafts.



The Board of Directors, who met in Calumet on July 11, 12 and 13.

Henry R. Guild, Geo. S. Mumford (Chairman of the Board), Harry P. Cross, Quincy A. Shaw, A. H. Wohlrab (Gen. Mgr. of the Calumet Division—not a member of the Board), Robert Livermore (Vice-President), E. R. Lovell (President) and Dudley S. Dean. Not present at Calumet were Q. A. Shaw McKean, Geo. R. Agassiz and Edwin S. Webster.

## DIVIDEND IS DECLARED

A dividend of Ten Cents per share has been declared by the Company, payable September 17.

# C. & H. News-Views

Published Monthly by the Calumet and Hecla Consolidated Copper Company

In the Interest of Its Employees Editor—Gervase T. Murphy Associate Editor—J. W. Alt

P. O. Box 231, Calumet, Michigan News and Views of Michigan's Great Copper Mining Company and its Various Branches.

Vol. 3. August, 1945 No. 10

## Believe It or Not

When "Ned" Gardner of North Ahmeek Engine House was at Camp Grayling with Co. A Engineers, State Troops, he saw a white pine tree which had a diameter of 150 inches and was 350 feet high.

On July 23rd, when the temperature was 85 degrees, "Rudy" Yoki of the Calumet Surface Department was wearing a real heavy wool shirt.

Tom Strong, Centennial Miner, has a method of saving tires; he was seen driving on three wheels.

"Nick" Probsfeld of the Lake Boiler Plant ordered 5 gallons of crank oil.

When Jim Roberts was walking on a path between the Calumet and Tamarack Waterworks, he met a big bear. Jim said to the bear, "Who is going to get off of the path?" The bear turned and rambled off through the woods.

One night early in July, Howard MacLeod's corn grew five inches. Vegetables grow rapidly in Wolverine.

Joe Mishica of the Calumet Construction Department has a hat for

### JAMES A. C. THOMAS DIES

James A. C. Thomas, Motive Power Machinist, died suddenly, Sunday, August 12th. He had been employed continuously since April 23, 1928, and for the past several years had spent considerable time as maintenance man on Lilly hoist controls. He began working as a drill boy at Calumet Mine in 1899.

Two sons, both in the Army, and two daughters survive.



James A. C. Thomas

every change of weather and a pipe to match each hat.

"Bill" Little, Ahmeek miner, says life begins at 60.

It's easy to acquire the habit of working safely.

When Clarence Yates attends a Firemen's Convention, he makes sure that in his car there is a good supply of tomato juice.

We're still looking for "old-time" pictures. If you have one, won't you let us use it for this paper? It will be greatly appreciated and will be returned to you.

When "Pete" Beilman puts on one of his fancy big bow ties, you can be assured that he is headed for a dance.

You may be too old to be in the Armed Forces of this Country, but you're never too old to work safely.

Felix Hjort of Ahmeek Mine uses "Honeysuckle" soap for that school-boy complexion.

"Dick" Kauppila, who was working at the Smelter Surface, has returned to an underground job because the days on surface are too long. "Dick" is now mining at Centennial.

"Tommy" Malnar of Ahmeek Mine Surface was seen carrying two pails full of tar. The pails were the same size and had the same amount of tar in each pail. "Tommy" stopped and changed pails to give his arms a rest.

## Boys and Girls

Mr. and Mrs. John Wittikko are the parents of a daughter, born July 17, 1945. John is employed at Construction.

Mr. and Mrs. Vincent Pawlicki are the parents of a daughter, born July 19, 1945. Vincent is employed at the Railroad.

Mr. and Mrs. Hilary Schenk are the parents of a daughter, born August 1, 1945. Hilary is with the Electrical Department.

Mr. and Mrs. Steve Shimetz are the parents of a daughter, born August 2, 1945. Steve is a Smelter electrician.

Mr. and Mrs. Alphonse Beaudoin are the parents of a daughter, born August 4, 1945. "Al" is employed at the Ahmeek Mine Surface Department.

## WANTED

Jobs sharpening saws, expert work guaranteed—by Joe Mishica of the Calumet Construction Department.

A machinist's cap—by "Billy" Piche of the Ahmeek Mine Machine Shop.

A sample pair of gloves—by Andrew Forso of the Kearsarge Boiler House.

A measuring rule, any length—by Natale Lencioni of Kearsarge Mine.

To buy, a bicycle—by George Maronen of Kearsarge Mine.

A picture of "Art" Myntti of Ahmeek Mine, riding a bicycle.

Overalls, large size—by Leonard "Becks" Waara of Ahmeek Mine.

Monday morning pep tablets—by "Bucky" Gareau, Ahmeek Mine electrician.

In the News-Views, more pictures

of those old-time baseball teams—by "Dick" Chynoweth of Ahmeek Mine Boiler House.

To buy, a second-hand car, not older than a 1939 model—by Jordan Hillenbrand of the Tamarack Reclamation.

To buy, 300 chickens for Safety Parties, to be delivered in September, October or November—by the Safety Department.

Uniforms—by the members of the C. & H. Band.

## COMPENSABLE ACCIDENTS

July

### No. 4 Kearsarge

July 11—Thomas Wilcox, Charge-man. Tightening bolt on motor, wrench slipped and he wrenched his back. Fracture of right transverse process, 4th lumbar region. ? lost time. Foreman, J. Wade.

July 17—George Plese, Trammer. Topping car, rock fell on his foot. Compound fracture right great toe. ? time lost. Foreman, W. Langdon.

July 26—William Wolfe, Trammer. Filling a car, a rock rolled over chute and hit his foot. Fracture of 2nd and 3rd toes of left foot. ? lost time. Foreman, A. Ohman.

### Ahmeek Mine Surface

July 3—George Bayles, Ass't Surface Foreman. Rail fell off of a truck and struck his leg. 3 fractures of left leg. ? time lost. Foreman, T. Knight.

### Smelter

July 25—Peter Beilman, Brake-man. Coupling cars, caught leg between cars. Contused left leg. 11 days lost time. Foreman, W. Curnow.



John Silva, whose hobby is raising large rabbits. Here he is with one of his 18 pound Flemish Giant rabbits. John is employed underground at No. 3 Allouez and resides on Railroad St., Wolverine. If you have a hobby let us know about it.

First Gob: "Chum, who was that lady I saw you out with last night?"

Second Gob: "I wasn't out, I was just dozing."

Blonde: "Is it proper to hold a sailor's hand in the dark?"

Brunette: "Yes, and often necessary"



Pfc. Lawrence Sapino, formerly employed underground at Ahmeek. He is the son of Anton Sapino, who is one of our masons.



NO. 1 ALLOUEZ ROCKHOUSE IN 1917.

# ... NEWS AROUND THE MINE ...

Our congratulations and best wishes to Mr. and Mrs. Frank Rost who were married in Detroit on August 4th. Frank, who is employed underground at Centennial, took as his bride Miss Stefania Jakovac.

The well dressed man wears safety goggles on the job whenever there is any danger to his eyes.

On August 1st, the employees of the entire Lake Linden Reclamation completed 1000 days without a compensable accident. It's a wonderful record in accident prevention and a record that these men can be mighty proud of. This entire plant has only 82 days to go to complete a 3-year safety record.

Peter Lukonich, Sr., Ahmeek miner, while deep sea trolling, caught a 23 pound lake trout, measuring 40 inches in length. He caught it while trolling from the fishing boat "Tina", owned and skippered by his son, Peter, Jr.

Our congratulations and best wishes to Mr. and Mrs. Ralph Novak, who were married on June 30th. Ralph, who is employed in the Railroad Department, took as his bride Miss Ruth Moilanen of Wakefield, Michigan.

The Volunteer Fire Department of Wolverine has joined the Upper Peninsula Firemen's Association, to become the 37th member. The department was organized in 1938 and has a present membership of 19 men. The department took part in the grand parade of Volunteer Fire Departments at the Tournament which was held in Hancock. Victor Giacometto is Chief of the department and Albert Lanyon is the Secretary.

It's smart to work safely. The Allouez night watchman, "Billy" Effinger of the Ahmeek Mine Drill Shops.

S1/c Robert Baril was recently home on a furlough after being out on the Pacific for the past 17 months. He was formerly employed at the Lake Reclamation Plant and his father, Alfonse, is foreman of the Lake Still House.

A letter received from GM3/c Joe Ceretto, which was written on August 4th from somewhere in the Pacific, said that he is getting the News-Views regularly and just got the May issue, also that he enjoys them very

much and looks forward to the time the next issue is due. He is on a small gun boat and has seen plenty of action at Iwo Jima and Okinawa. Joe, before entering the service, was employed in the "Still Gang" at the Tamarack Reclamation Plant.

Our congratulations and best wishes to Mr. and Mrs. Jacob Stajniger, who were married on June 2nd. Jacob, who is employed underground at Ahmeek, took as his bride Miss Christine Verus.

On August 18th, the employees of the Lake Linden Boiler Plant completed 9 years without a compensable accident. This is the best safety record that has ever been made by this plant and a record in accident prevention that all of the men can be mighty proud of. Such records are only attained through the efforts of every man on the job.

We received a mighty fine letter from William Thomas, S/1c. He enjoys receiving the News-Views and has been waiting to see his brother's (Henry "Happy" Thomas) picture in the paper. "Bill", who was employed underground at Ahmeek, has seen considerable action on the Pacific. He wishes to be remembered to all the boys at Ahmeek Mine.

There's always room for better safety.

"Ernie" Tuoriniemi of Iroquois Shaft has composed a song entitled "C. & H. Safety Song." It's good and we hope to be able to try it out at the first safety party.

Mrs. Toivo Wiiteniemi wishes to thank the Hospital staff for the fine treatment and care she received while she was a patient there. Toivo is employed at the Tamarack Reclamation Plant and sends the News-Views to his son, Cpl. Walter, who is somewhere in the South Pacific. Walter enjoys receiving the paper and reports that it is very interesting.

T/Sgt. Hubert Vollmer, son of "Rudy" Vollmer of the Ahmeek Mill, was recently home on a 30 day furlough. Hubert, who was formerly employed at the Tamarack Reclamation Plant, had been in Germany.

Don't forget to send us those pictures of the boys who have left the employment of this Company to enter the Armed Forces of this Country.

## VALENTINE KLEIN DIES

Valentine Klein, Ahmeek Mill Pumpman, died August 14th. "Val", as he was affectionately known, was first employed as a fireman at the old Osceola Mill in 1890 and worked



Valentine Klein

continuously until his death, a period of 55 years.

To his son, Lawrence, employed as Metallurgist with the Research Department, and three daughters, we extend our deepest sympathy.



Cpl. Paul Goraczniak. Formerly employed as a painter.

Gob: "Am I the only man who ever kissed you?"

Girl: "Why will every man ask the same question?"

## DEPARTMENTAL SAFETY RECORDS

August 15th, 1945

| Days Since Last Compensable Accident.                           |                  |             |
|---|------------------|-------------|
| ALLOUEZ NO. 3   |                  |             |
| Surface .....   |                  | 606 Days*   |
| Underground .....   | 3—1945 Accidents | 73 "        |
| AHMEEK MILL   |                  |             |
| Stamping and Maintenance.....                                   |                  | 3,470 Days* |
| Power Plant and Boiler Plant.....                               |                  | 973 "       |
| Wash .....  |                  | 795 "       |
| CENTRAL EXPLORATION   |                  |             |
| Surface (Start June 20, 1942).....                              |                  | 1,144 Days* |
| Underground .....   | 1—1945 Accident  | 213 "       |
| CENTENNIAL  |                  |             |
| Surface (Start March 1, 1944).....                              |                  | 532 Days*   |
| Underground .....   | 2—1945 Accidents | 171 " *     |
| IROQUOIS  |                  |             |
| Surface .....   |                  | 981 Days*   |
| Underground .....   | 1—1945 Accident  | 52 "        |
| NO. 4 KEARSARGE   |                  |             |
| Surface .....   |                  | 1,105 Days* |
| Underground .....   | 4—1945 Accidents | 20 "        |
| LAKE LINDEN RECLAMATION   |                  |             |
| Power Plant and Sub-Station.....                                |                  | 5,614 Days* |
| Still House .....   |                  | 5,404 " *   |
| Blacksmiths, Mill Mechanics, Machinists, and Michigan Pump..... |                  | 3,594 " *   |
| Boiler House .....  |                  | 3,284 " *   |
| Surface and Watchmen .....                                      |                  | 3,174 " *   |
| Dredge and Shore Plant.....                                     |                  | 2,373 " *   |
| Leaching Plant .....  |                  | 1,915 " *   |
| Coal Dock .....   |                  | 1,622 " *   |
| No. 2 Regrinding and Flotation.....                             |                  | 1,013 "     |
| AHMEEK MINE   |                  |             |
| Blacksmith Shop .....   |                  | 1,924 Days  |
| Electrical .....  |                  | 1,862 "     |
| Mechanical .....  |                  | 785 "       |
| Drill Shops .....   |                  | 298 "       |
| Surface .....   | 1—1945 Accident  | 238 "       |
| Douglass Underground .....                                      |                  | 704 " *     |
| No. 3 Ahmeek Underground.....                                   | 2—1945 Accidents | 167 "       |
| Peninsula Underground .....                                     | 4—1945 Accidents | 11 "        |
| SMELTER   |                  |             |
| Electrical .....  |                  | 764 Days    |
| Mechanical .....  |                  | 697 "       |
| Furnace .....   | 1—1945 Accident  | 158 "       |
| Laboratory .....  | 1—1945 Accident  | 36 "        |
| Surface .....   | 1—1945 Accident  | 20 "        |
| CALUMET DEPARTMENTS   |                  |             |
| Electrical .....  |                  | 5,416 Days* |
| Police, Hospital, Office .....                                  |                  | 2,778 " *   |
| Blacksmith Shop .....   |                  | 2,199 "     |
| Supply .....  |                  | 1,780 "     |
| Machine Shop .....  |                  | 1,228 "     |
| Foundry .....   |                  | 873 "       |
| Railroad .....  |                  | 680 "       |
| Motive Power .....  |                  | 385 "       |
| Surface, Construction, Masons, Painters.....                    | 1—1945 Accident  | 118 "       |

\*New Best Record

Entire Property to date—1945—22 Compensable Accidents.  
Entire Property to date—1944—19 Compensable Accidents.

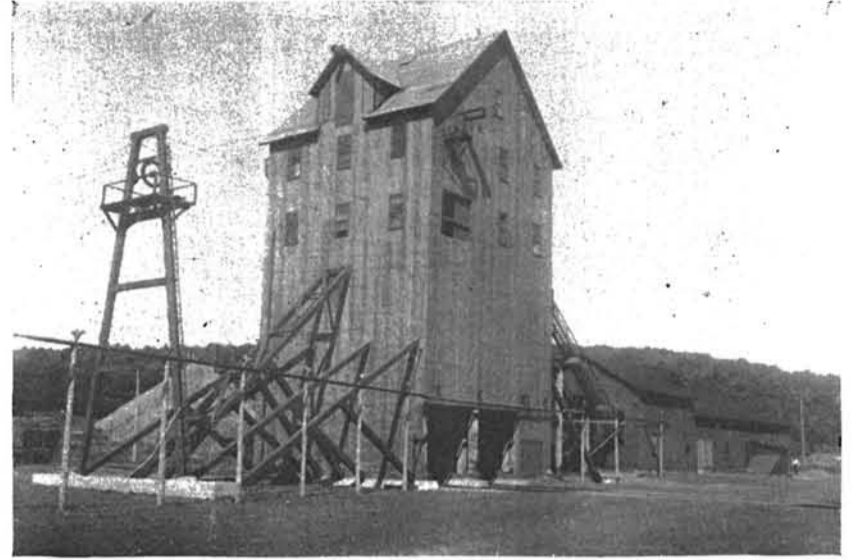


John Rankinen, Calumet office yardman, with his "educated" dog.

# Allouez No. 3 Exploration Is One



Rigged up and drilling for a chute hole.  
John Massoglia and John Pastor.



Allouez No. 3 Shaft House.



A Shaft Sinking Crew  
Standing: "Bill" Tapio, "Jim" Whitford, Frank Leidl, Louis Sandretto.  
Kneeling: Jos. Sitar, "Billy" Gregurich.



Stope Mining  
Ludwig Nordstrom, operating a  
drilling machine.

**T**HE Allouez No. 3 shaft exploration, which lies about midway between Allouez and Calumet conglomerate, was started in 1937, when Calumet and Hecla drilled into the hanging wall at a depth of 100 feet. Here the conglomerate was narrow and had a type of alteration which indicated it was favorable. In 1938, drilling holes to the south, further exploration was made. In 1939, arrangements were made to explore and mine on the property. In 1940, a hole drilled in this more northerly direction found the conglomerate to be 10 feet thick, showing of copper.

Over twenty-five holes were drilled in the area over two thousand feet. The conglomerate body, only a few hundred feet in length, is lengthening and thickening in depth. It has a pebbly character, becoming finer grained and called a sandstone rather than a conglomerate. The copper is concentrated in the coarser conglomerate sandstone.

After the ore body was roughly outlined, estimates of grade and tonnage were made. It was estimated there were a million tons of conglomerate containing 100,000 tons of copper per ton. Following drilling, a more elaborate and expensive phase of ground work was required. It was decided to sink a shaft to the heart of the deposit as developed by the Allouez No. 3, may eventually reach the drifts. Drifts have already been extended over 100 feet. Work will soon be started on the 10th level.

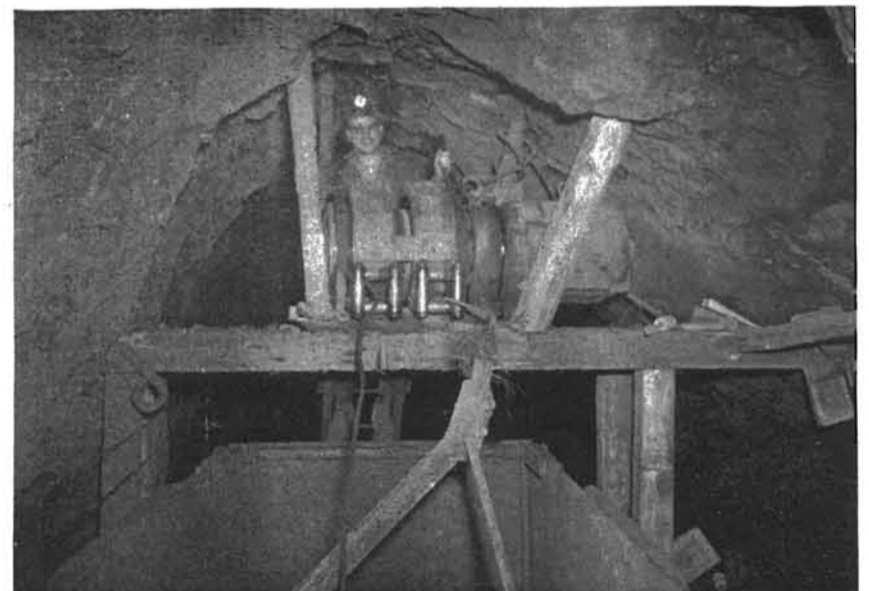
Questions which the exploration is expected to eventually answer are as follows:

In what respects does the Allouez No. 3 resemble the Calumet conglomerate?

(Continued on page 4)

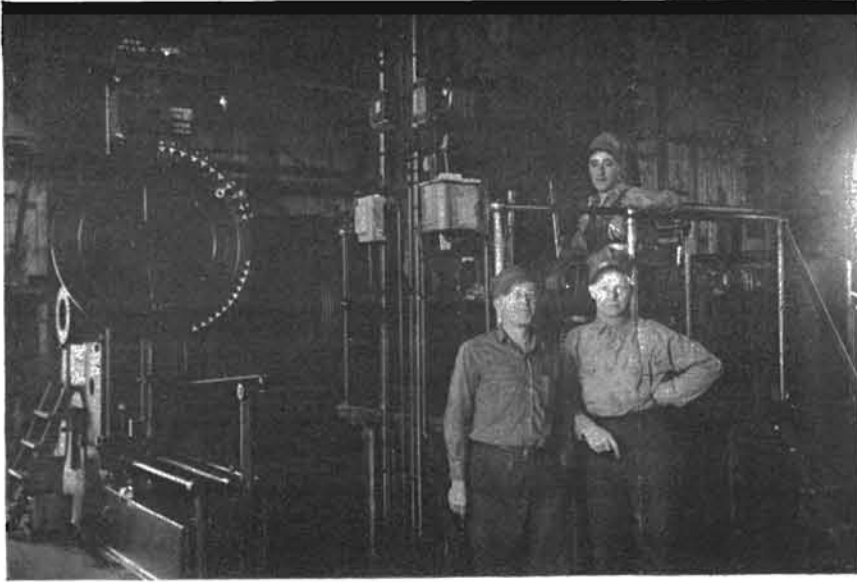


Shaft Sinking Electric Hoist.  
Roy Bolf, Operator.



Shift Boss Garfield Maynard demonstrating stope scraper engine.  
When rock is broken to the level, it is scraped into a car.

# Of Company's New Developments



Hoisting engineer and compressor men.  
Seated: John B. DeFlippi. Standing: Walter Seppanen, Otto Hammerberg



Drift miners Harold Wills and John Kipina, operating drilling machines from a "jumbo."

Exploration is on the Houghton conglomerate midway between the better known Alouez and Hecla drove an exploratory crosscut of 400 feet in Allouez No. 2 shaft. The shaft is narrow, containing some fine copper but which experience on the Calumet is considerable. After drilling several disappointing holes exploration was deferred until recent years were made whereby the Company could determine the drift to the north. In 1942, the first drift was drilled furtherly area for exploratory purposes, 10 feet thick and to have an attractive

Drifts were then drilled, varying in depth up to 100 feet. The conglomerate was found to be a narrow drift in length near surface, but gradually widening in depth. On the margins it loses its fine grained, and is then more properly a conglomerate. The copper is in conglomerate phases rather than in the

Drifts were roughly outlined by drilling, estimates were made, and it seemed probable that there was a moderate ore averaging sixty pounds of copper per ton. The next step is the much more extensive of the exploration, namely under- to sink an inclined shaft down through the drift developed by drilling. This shaft, known as the No. 3 shaft, will reach a depth of about 3,000 feet. It is planned on the 4, 6, 7, 8, and 9 levels and will be completed in 1946.

Exploration has already or it is hoped will be completed by the following:

The Houghton conglomerate ore body represents a moderate deposit, which was the mainstay of the Company.

(Continued on Page 6)



John Panijan, about to dump shaft sinking rock into tram car at bottom level.



John Karvonen, operating an air shovel-loader while tramming in a drift



Repairing and operating an underground pump.  
Allouez No. 3 Shaft House.



Shaft Sinking Crew, showing bucket, scraper slide and scraper.  
Erick Harju, Antti Palkki, Henry Hirvonen.

# ALLOUEZ EXPLORATION

(Continued From Page 5)

of the Company for about eighty years? There is a close resemblance although the copper is not as abundant, nor as coarse nor as uniformly distributed.

How do the underground results check with the estimates based upon the drilling? So far, fairly well. The main lens is where the drilling indicated it to be, within reasonable limits. Because of dilution, the recovery has been and will probably continue to be lower than the sixty pounds estimated from the drilling. This does not necessarily mean that the total copper produced will be less, but it does mean that a greater tonnage will be broken and treated to get the same amount of copper, hence increasing the cost per pound over that which would be attained by ideal mining.

What are the chances that the lens developed by the drilling is merely a

nger which will connect somewhere in depth with a larger deposit? This is so far merely a hope and there is not much evidence to encourage it. The relative weakness of the mineralization, its occurrence so close to the great Kearsarge lode deposit, and the fact that the deepest drilling, while it encountered thick conglomerate, showed little copper, all favor the idea that it is a small deposit, possibly formed by stray copper depositing solutions which escaped upward from the Kearsarge lode. A similar deposit was mined on the Allouez conglomerate less than a mile away. However, the course of exploration is often unpredictable and the best rule is to get on the copper, stay with it, and see what develops.

Sue: "Why do they call it single blessedness?"

Sam: "Are you married?"

Sue: "No."

Sam: "Then you wouldn't understand any explanation I could give you."



SURFACE MEN

"Sam" Lark, George Dahi, Clarence Wicketts, William Wahtola, Henry White



ENGINE HOUSE CREW

Charles Carlson, "Vic" Glavanimi, Angelo DeFilippi.



Shift Boss "Bill" Dower and Captain Howard MacLeod, inspecting gate piece and gate piece air lift which is operated from the plat. Shows round bottom skip which is now being used at this shaft.



George Mehrens, Timekeeper.



Miners ready and waiting in the dry for the start of the underground shift. John Bacor, "Glen" Kario, Martin Bacor.



George Williams checking up on electric cap lamps. George has worked for this company for 46 1/2 years in several different underground and surface departments.



Surface and Rockhouse men. Dominic Brusso, Frank Beaudette, Arthur Herstrom.



John Kipina, dumping car of rock into skip underground.



Waiting in the Dry, all set to go underground. Frank Perona, Art. Dahlgren, John Silva, Einard Ollila.



Electric scraper engine used for shaft scraping. Casper "Cap" Sorvala, Operator.

**NEWS ABOUT OUR BOYS  
IN THE SERVICE**

**CITED FOR HEROISM**

Pfc. R. F. Vollmar, son of Joseph Vollmar, of Ahmeek Mill, recently received the Presidential Citation for heroic deeds during action in the battle of France. His brother, Corporal Alfred Vollmar, recently returned from two years service in the Pacific.

**AWARDED BRONZE STAR**

Pfc. Howard Kumpola, son of Ansel Kumpola of the Calumet surface crew was awarded the Bronze Star, stationed in Italy recently. He exposed himself under heavy enemy fire so that other members of the Company could reach safety.

**MARRIED IN SCOTLAND**

Corporal Cemet Cassette wrote his parents Mr. and Mrs. Joseph Cassette, announcing his marriage at Glasgow, Scotland, to Miss Marjorie Thompson. They were married at the St. Mary's Church, in Mary Hill, Scotland. The grooms father works at the Reclamation Plant.

**WINS SECOND CITATION**

Staff Sergeant Earl A. Gregorich of Ahmeek, who was formerly employed in the underground department, was recently awarded an Oak Leaf Cluster in addition to his Bronze Star Medal.

**RECOVERED FROM WOUNDS**

Pvt. Weldon B. White, son of Albert White of the Kearsarge force, and a brother of Marjorie White in the Calumet Supply Department, is at the O'Reilly General Hospital in Springfield, Ohio, recovering from wounds received in France.

**RECEIVED CROIX DE GUERRE**

Corp. William Pryor, son of William Pryor, Ahmeek shift boss, re-

cently was awarded the Croix de Guerre by the Government of France, for excellent military service. He saw considerable service from the invasion of France until the fall of Germany.

**TRANSFERRED TO TEXAS**

Captain Robert E. Murphy, son of Dan Murphy, of the underground department, recently was assigned as psychologist of the Air Personal Command in San Antonio, Texas. He has been in the Army since August, 1942.

**ON SPECIAL MISSION**

Lt. Colonel Redman, son of Harry Redman of the General Office Accounting Department, was transferred recently to the Pacific Theater of War on a special mission by the War Department. His work will take him to Hawaii, Tininen, Saipan, Okinawa and the Philippines. His brother Wilfred Redman is with the Navy in the South Pacific Theater.

**PACIFIC MEETING**

Eldridge Poisson of Ahmeek Mills received word from his son Albert stating that he met Jimmie Bodi at a South Pacific base. Both young men grew up together at Tamarack Mills, and had not seen each other in several years.

**RETURNS TO CALUMET**

Corporal Matt R. Hackonen, whose father Matt Hackonen is employed as a miner at Kearsarge, was honorably discharged from the Army recently, after serving overseas for more than three years. He is enjoying a visit in the Copper Country.

**WILBERT PAQUETTE IS BACK**

Corporal Wilbert Paquette, son of Wallace Paquette of the Smelting Plant, who was a prisoner of war for several months in Germany has returned home. He spent considerable time in Crile, Cleveland, recuperating. He formerly was employed in the Smelting Plant.

**RECEIVES PROMOTION**

Fidelia Killmar, Army Nurse at 101st General Hospital in Berlin, recently was advanced to the rank of First Lieutenant, according to Caleb Killmar of the Lake Linden Reclamation Plant.

**We Wish**

Clarence Kus of the Lake Still House would tell the boys why he is called "Flash."

We had a picture of Felix Hjort of Ahmeek Mine playing baseball.

You could see Fergus Therrian's special application. "Fergy" is a miner at Iroquois shaft.

Stanley Richards and Francis Pflugl of the Lake Reclamation Plant would tell the boys why they didn't go to State Troop encampment at Grayling.

Henry Chynoweth of Ahmeek mine would tell the boys why he is called "Whirl-Wind."

"Vic" Giacometto of Ahmeek Mine, who is Chief of the Wolverine Volunteer Fire Department, would tell the boys where he got those dress caps for the firemen.

"Dave" Krause of the Lake Leaching Plant would tell about the line he stood in while he was in Detroit.

That if you see an unsafe condition where you are working, that you would report it immediately to your foreman. Good safety suggestions are always greatly appreciated.

Clarence Mills of the Lake Still House would tell the boys why he is called "Back Pressure Sam."

Hubert "Doughnuts" Abrahamson of Iroquois shaft would tell the boys about fishermen's gratitude.

Wilfred Nordstrom of Ahmeek Mine would tell the boys what he found in his locker at the mine after he placed an ad in a paper.

"Mike" Ricca of Ahmeek Mine Boiler House would keep his promise and give the boys that fish fry.

We had a picture of the new fly rod that "Jack" Mugford of the Ahmeek Mine Office received as a gift



No. 4 North Kearsarge. Showing pull switch mounting at top of cage. Transmitter is mounted above dash in metal case.

from "Bucky" Pellegrini and "Billy" Cox of the Calumet Construction Department.

To apologize to "Billy" Rader for omitting his name below the picture of the Steel Gang in the June issue of the News-Views. He's kneeling between Andrew Maninga and Delore Lajeunesse.

You could see "Ike" Ahistus' pin-up girls which he has on display on his locker in the Ahmeek Mine Carpenter Shop.

We knew why "Rolly" Lanctot of the Lake Linden Boiler Plant took the day off from work after attending a Sportsmen's Club meeting.

Henry Carpentier of the Lake Reclamation Plant would tell the boys about the peaches his wife was seen picking up from under a cherry tree.

To compliment James Gray, Calumet Shops Timekeeper on the fine appearance of his flower garden.

John Salata of the Ahmeek Mine Blacksmith Shop would tell the boys why he boasts so much about catching 7 inch fish.



No. 4 shaft, Ahmeek. Showing transmitter mounted in metal case on top of cage. Pull switch is mounted in upper deck.



Your Safety Inspector "Matt" Fink.



MICHIGAN WAVES IN HAWAII.

Waves from Michigan who have reported for duty in Hawaiian Islands include (first row) Vera Mae Whiting, Brown City and Ruth Low of Mt. Clemens. In the rear row are, Mary Frances Curto, Calumet; Mrs. Velma Irene Bennett, Clio; Katherine Louise Dickinson, Mio. Mary Curto, Yeoman, Third Class, is the daughter of Peter, who is employed in the Foundry.

## Instruction Course Being Given to Company Supervisory Force

Members of the supervisory force, Surface Departments, have been attending a course of instruction in the employee merit rating section of the job evaluation plan. The course is under the direction of Mr. Fred Hanselmann of the Michigan Tech faculty, who has been employed as Training Instructor with the Personnel Department.

Under the merit rating program, all hourly rated employees of the Surface Departments excepting supervisors, will be reviewed at least once annually. The review will be based on the following factors: (a) Application to Job—interest in job, attitude and cooperation, quantity of work; (b) Quality of work—accuracy of work, errors and waste of material, job knowledge, ability; (c) Adaptability; (d) Care of tools and equipment; (e) Safety habits; (f) Attendance. Such things as personalities, likes and dislikes will have no part in the program.

The purpose of the merit review plan is three-fold, namely:

1. To develop more satisfied and

better employees.

2. To provide a method of encouraging and giving due recognition to employees.

3. To obtain a written record and more exact evaluation of each employee's qualifications.

Printed merit review forms are being prepared. They will be distributed to the superintendents and foremen who, in turn, will act as reviewers for the employees under their supervision. If an employee wishes to discuss his individual rating, or review, he will be able to do so by taking the matter up with his foreman.

After it has been established, the merit review plan will have a direct influence upon any change in an employee's status, such as a promotion, demotion, transfer, etc.

Management intends to make every effort to fulfill the purposes of the plan as outlined above. After making an exhaustive study of the subject, it is believed that the plan as now constituted is the most fair, most impartial method of employee appraisal available at the present time.

## REPRESENTATIVES FROM THE EAST VISIT HERE

Mr. K. S. Williams of Pittsburg, Pa., Buying Agent for Calumet and Hecla's Secondary Copper Department, spent several days here recently. He was accompanied by Mr. F. W. Willard, President of Nassau Smelting and Refining Company of New York; Messrs. Shewmake and Jochum, also of Nassau, and Mr. L. D. Bain of the Western Electric Co. The group transacted business in connection with the Secondary Copper Department and inspected some of the local plants.

The Nassau Company is one of the



Marilyn Gipp, eight year old daughter of Mr. and Mrs. Raymond Gipp. Marilyn is quite a performer with this 48-bass piano accordion. Her father is a brakeman on the C. & H. railroad.

larger concerns engaged in the non-ferrous scrap metal business. Western Electric, manufacturer of equipment for the Bell telephone systems, is a source of much of the supply of scrap metal necessary for such operations as those of the Secondary Copper Department.

### ABSENTEE RATE UP IN JULY

Owing partly to the vacation period, July's absentee rate was 7.10%. A total of 2953 shifts were lost. Of this amount, 1026 shifts represent time lost for unknown reasons, almost one-third of the total.

Central Exploration made the best showing of the underground departments with a rate of 5.43%. The Electrical Department topped the Surface groups with 2.22%.

Indications are that the absentee rate will be higher during August. However, it is expected there will be a decided drop in September when schools reopen and the vacation period comes to a close. The absentee rate for the balance of the year most likely will be several points below the July rate.

### ABOUT MEN IN SERVICE

Pvt. Gordon Karvonen has returned from overseas to spend a thirty day furlough visiting his parents Mr. and Mrs. John Karvonen of Fulton. His father is employed at Allouez No. 3 underground.

S/Sgt. Glenn A. McCabe, back from duty with the air force overseas, is spending a 30-day furlough with his parents, Mr. and Mrs. Alex McCabe, of Laurium.

Sgt. McCabe was with the 15th Air Force, stationed in Italy the past year, and served as a nose gunner on a B-24 Liberator. He has 35 sorties to his credit. He wears the Air Medal with two Oak Leaf Clusters, Good

Conduct Medal, E.T.O. ribbon with Seven Battle Stars, the Distinguished Unit badge, and Presidential citation. His father Alex, is a Centennial miner.

Pfc. Lawrence G. Freiberg of Hubbell is enroute home from the European theater of operations after eight months of combat action from Normandy to the heart of the Reich. He was a member of the famous "Bloody Bucket" division which quit its occupational duties in Germany on July 5. His father Nick, is employed at Ahmeek Mill.

Pfc. Kenneth Bryant has returned from overseas where he served in England, France and Germany. After a 30-day furlough at his home he will go to Camp Grant, Ill., for further assignment. He formerly worked at Central Exploration.

Pfc. Ernest Poliuto, back from service with the 23rd Infantry in Iceland, Wales, France, Belgium, Germany and Czechoslovakia, is spending a 30-day leave with his parents. His father Dominic, is employed at the foundry.

Pvt. John Frisk, who was reported missing in action, and later a prisoner of war in Germany, is visiting his brothers, Ernest of Ahmeek, and Emil of Mohawk. His brother Ernest works at the Ahmeek drill shop.

Pfc. Robert H. Webb has returned from Germany and is spending a 30-day leave with his parents. He served with the 39th Photo. Rec. Sqdn. in France, Holland, Germany and England, and has two Battle Stars. His father Richard is employed at the foundry.

Pfc. Chester L. Butler has arrived from overseas to spend a 30-day furlough with relatives and friends. He has been serving with the Eighth Air Force for the past two years. His father Chester, works at the Ahmeek Mill.

Pfc. Cleo Beaudoin has returned from overseas to spend a 30-day fur-



Joseph Limback, employed at the Office Annex Building. "Joe" has been a familiar figure around C. & H. for 42 years.

lough with his parents. He has seen service in England, France, Belgium and Germany and was wounded in Germany for which he wears the Purple Heart. Cleo was formerly employed with the construction department and his father John, is mining captain at Ahmeek.

S/IC Robert Baril is spending a leave with his parents. He spent the past year and a half in the Pacific theater of war and took part in nine major engagements. His father Alphonse, is employed at the Lake Linden Reclamation.

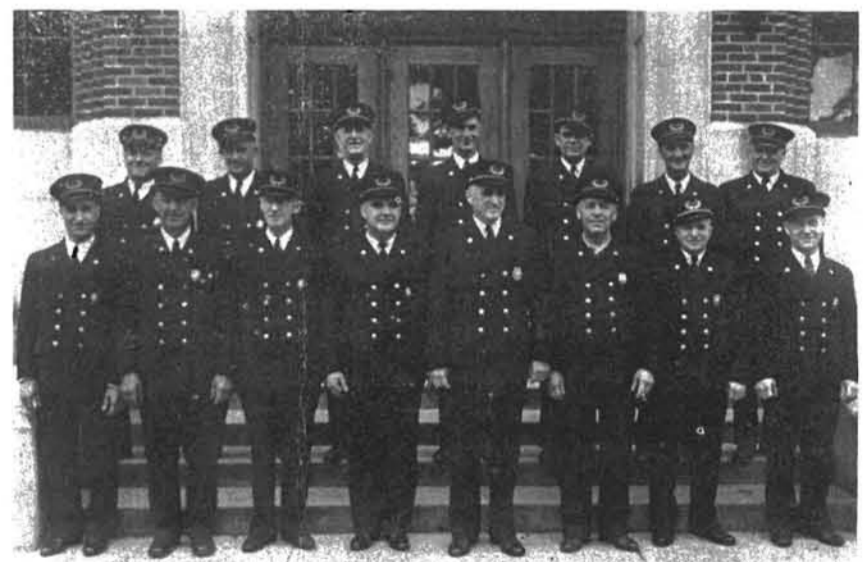
### VICTORY GARDEN CROPS ARE LARGER THIS YEAR

Judging of the Victory Gardens of C. & H. employees took place this week, when the committee of judges visited the several localities to inspect the plots which were entered in the contest, and to select the prize winning gardens. The committee found that the crops are larger this year, despite a rather late spring season.

Pictures of the gardens and their owners were taken during the judging and these will be displayed in the September issue of the News-Views.

Small boy: "What do you call a man who drives a car?"

Pedestrian: "It all depends on how close he comes to me, son."



Members of the Calumet & Hecla Fire Department, ready to depart for the Upper Peninsula Annual Firemen's Tournament, which was held in Hancock, Michigan, on August 1, 2 and 3.

Back Row: "Bert" Hodges, "Rudy" Yoki, "Bill" Dwyer, "Chris" Brill, Clarence Yates, "Jake" Gipp, "Bert" Sincock.

Front Row: "Al" Beauchene, "Pete" Curto, Ed. McCormick, Norman LaBonte, "Tom" Soddy, Fire Chief; Jos. Laurin, "Tommy" Michetti, Harold Soddy.