AHMEEK AND SENECA SHAFTS ARE BEING CONNECTED

NEW LOADER BEING USED IN KEARSARGE SHAFT

PUMP LINERS MADE HERE

TO BE USED IN LOS ANGELES SEWAGE DISPOSAL PLANT

Orders have been received from the Meckum Engineering Company, Ottawa, Illinois, covering hundreds of castings for the 28-inch sludge pumps required by the City of Los Angeles for use in preparing a site for its huge new sewage disposal plant. The numerous patterns required are now being constructed in our pattern shop and it is estimated that approximately four months will be required to complete this phase of the project. Individual patterns will be delivered to the foundry as they are completed. A number of castings have already been finished, but delivery of the order cannot be completed before late in the year. The castings will be shipped to the Meckum Engineering Company shops at Ottawa, Illinois, where they will be finished and assembled in the pump shells.

The State of California has recently brought action against the City of Los Angeles, requiring that it cease pumping sewage into the Pacific Ocean, claiming that the practice has destroyed oysters and otherwise contaminated the off-shore water (used by other cities in the area) for many miles north and south of the city. A survey was conducted of the entire Los Angeles area in order to develop a suitable plant site, but the only location adequate for a plant to serve a city of nearly 2,000,000 was an area occupied by 14 to 16 million cubic yards of sand at a distance of some seven miles from the Ocean and 20 feet above sea level. Construction requirements make it necessary that all of this sand be removed.

A number of large, 28-inch pumps are now being installed to draw salt water from the Ocean, transport it seven miles, and "hydraulically blast" the sand into sumps, where it will be picked up by another pumping circuit and carried the seven miles back to the sea.

It is in this second circuit that the ten 28-inch pumps (diameter of liner ring—12 ft. 1 in.), fitted with Ni-Hard liners, throat rings, blade plates, and other castings cast at our own foundry, will be used. Each pump will be equipped with nearly 25,000 pounds of these wear-resistant Ni-Hard castings, all of which are heavy sections weighing more than 1,000 pounds.

(Continued on Page 8)

Vol. 5, No. 4.  February, 1947

"What C. & H. Folks Are Doing"

UNEXPLORED SECTION WILL BE TAPPED IN RAISING OPERATIONS

Rehabilitation of Seneaca No. 2 shaft, and the surface plant, for the purpose of exploring a large area where the present workings end, was started in April, 1946. The old hoist and compressors used by the Seneaca Mining Company when it operated this property were scrapped, and the wooden building which housed the machinery was torn down, as were also the dry and warehouse.

The lumber from the old buildings was salvaged for future use.

The 32"x72" Nordberg steam hoist formerly used at No. 13 shaft on the Oconomowoc side at Calumet was dismantled and has been transferred to Seneaca No. 2 shaft. The steel frame building which housed this hoist has also been transferred to this site and re-erected. Concrete foundations for the hoist have been poured, and erection of the hoist under the supervision of Mr. Blackwood, erection engineer for the Nordberg Manufacturing Company of Milwaukee, is well underway. The hoist will be capable of operating from a maximum depth of 6,000 feet.

In the excavation of concrete blocks, with steel roof trusses, has been constructed as a lens-to on the engine house. Two 5,000 cu. ft. per minute Ingersoll-Rand electrically driven compressors and one 1,050 cu. ft. per minute Ingersoll-Rand electrically driven compressor will be set up in this building. The latter compressor is on hand and will be installed immediately so that it may be used for preliminary exploratory work. The two larger compressors will not be in operation until later in the year.

A small 4 ft. by 6 ft. electrically driven hoist formerly used at Centennial No. 2 shaft has been installed, together with an electric air-cooled 400 cu. ft. per minute compressor, and this equipment is now being used for shaft rehabilitation.

The rockhouse of concrete and steel construction, having a bin capacity of 2,500 tons, and serviced with two electrically driven 24"x36" Farrell rock crushers is in operating condition. A treatise of timber construction for the disposal of waste rock is completed.

The hoister house and boilers are being overhauled and tested. Seven 72-inch boilers are in place in this building, which is a warehouse being freed to furnish steam for heating the compressor and engine houses while machinery is being installed. Four boilers will be reconditioned for use in operating the Nordberg hoist, one of which will be used as an auxiliary. The Nordberg hoist will be ready for operation about April 1.

Shaft rehabilitation has been completed to the 21st level in both skips. A section of the shaft between the 21st and 25th levels was not completed before the Nordberg Mining Company before that company suspended operations in 1936, and the broken ore now in place here must be removed and the shaft timbered before it can be used. Development work will probably be started on the 22nd level north and south soon after the large hoist is put in commission about April 1, and the remaining rock in the shaft between the 22nd and 23rd levels will be removed while this work is in progress.

A new dry house is under construction adjacent to the shafthouse. This, too, should be ready for occupancy by April 1.

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(Continued on Page 8)
COPPER TARIFF MUST
NOT BE ELIMINATED

At present the production of refined copper in the United States averages slightly under 83,000 tons per month, while monthly consumption totals over 100,000 tons. The deficit of 60,000 tons has been made up so far from stocks of copper in the hands of the Metals Reserve Company, a government agency. Sometimes ago the Government stopped buying foreign copper; consequently, government stocks have dwindled rapidly and are now approaching the vanishing point.

The manufacturing industry has been unable to get all the copper it needs. The situation has been going from bad to worse, and unless something is done soon to provide more copper for domestic use, the price of copper may be bid up to excessively high levels. This is something producers and consumers alike wish to avoid.

A large group of American manufacturers and manufacturers is striving to have the 4-cent import duty on copper removed. If this tariff is a temporary suspension of the copper tariff until June 30, 1948, after which the 4-cent duty would again be made to apply. The manufacturing group has recently proposed a suspension until June 30, 1949. Since the two groups appear to be only a year apart, it is felt a compromise plan can be worked out and presented to Congress. Where we are told, sympathetic and rapidly action can be expected. If a compromise agreement is not reached, a long drawn-out fight will take place in Congress, with the ultimate solution seriously delayed. Such a delay can work irreparable harm, not only to the copper industry but also to all industries and consumers requiring copper in any form.

ENIDCOTT H. LOVELL
President

C & H. NEWS-VIEWS
Published Monthly by the Calumet and Hecla Consolidated Copper Company
In the Interest of its Employees
Editor—Georges T. Murphy
Associate Editor—E. W. Alt
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News and Views of Michigan's Great Copper Mining Company and its Various Branches
Vol. 6, February, 1947. No. 4.

1926 Fishing Trip

A 1926 fishing trip. William Keast, Ernest Myers, "Rudy" Myers, and Charles Myers with catch of rainbow trout, the largest one weighed 7½ lb. William Keast and "Rudy" Myers are employees of the Lake Linden Reclamation.

Four Mighty Fishermen

In case you do not know turn to page 7.

OPA Official: "Now, do you owe any back house rent?"
Farmer: "See here, young feller!"
"I'm not a feller, but a farmer!"
OPA Official: "I know, but isn't your name the same as the word feller?"
Farmer: "I suppose it is, OPA official!"

Coming Events

March 1—Men at Centennial under the supervision of William Landor and John Kure, Centennial Surface men and No. 3 Alouez Surface men.
March 2—Men of the Ahmeek Surface, Shops, Engine Houses, Boiler Houses and Office.
March 3—Men of the Ahmeek Surface, Shops, Engine Houses, Boiler Houses and Office.

SAFETY PARTIES

June 10—Quintette Party in the Club Rooms of the C. & H. Fire Hall on Mine Street, Calumet at 6:15 p.m.

JOSEPH NORMAND DIES

Joseph Normand, retired mill foreman, died January 12, 1947. Mr. Normand was continuously employed from April 1893 until his retirement on October 31, 1939. His total employment service of 46 years and 7 months was spent in the Stamp Mills Department.

Mr. Normand came to this country from Canada in 1891, locating in Lake Linden. He is survived by his widow and several children, one son Peter is employed at the Lake Linden Boiler Plant and a son-in-law Walton Smith is employed at the Lake Linden Reclamation.
We Wish

You could see the Valentines that were received by the boys of the Ahmeek Mine Machine Shop.

You could hear Matt Paulson of No. 3 Allouez tell about his army experience and see some of his pictures. Matt spent several years on the Aleutian Islands and while there learned to speak the Japanese language.

To thank Louis Ucman of the Ahmeek Mine for his safety suggestion, you could hear Sam Hatakai of the Ahmeek Mine sing "Clancy's Wooden Wedding."

Hubert Abrahamson of Iroquois Shaft would tell the boys why he calls "Jake" Alt, Gomba Longa.

Clarence "Frog" Perreault of the Lake Linden Boiler Plant would tell the boys why he traded shifts on February 11th. That night in bowling he averaged 129 for three games.

Lawrence Monstable of the Tamarack Reclamation would tell the boys why he carries a blanket and does not wear gloves when he goes to a hockey game in Calumet.

We had a picture of John Voelker of the Snifter giving Leonard Jutinen a shovelful of ashes.

To thank George Hribik of Ahmeek Mine for the fine compliment he paid the News-Views.

BELIEVE IT OR NOT?

Charles Haddox of Iroquois Shaft was looking all over the mine for his dinner plate. Someone told him that he had it slung over his shoulder.

Lloyd Yates of the Ahmeek Mill Boiler Plant, who has been doing some painting in the Plant says, "It takes more than marrying a painter's daughter to be a painter." He paid the News-Views.

A job as a waiter—expert services guaranteed by Jonas Wahola of Ahmeek Mine, who resides in Wolverine.

Interior and exterior painting jobs—by David Rives of the Ahmeek Mill Boiler Plant. Will work by the hour, day or contract.

To buy—a Mix-Mix machine, by Albert Stimec of Iroquois Shaft, who resides in Mohawk.


A picture of Howard MacLeod of No. 3 Allouez playing hockey on his son's ice rink. "Uncle Sam's Breakfast Food"—by Henry White of No. 3 Allouez.

A skating class is held every Saturday morning at the Calumet Armory. This class is conducted by Mrs. A. H. Washburn, an expert skater.

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C. & H. NEWS - VIEWS  FEBRUARY, 1947

Rock Dragicevich, Peninsula, averaged 249.

Margaret Roskelley, Engineering, member of Women's League.

Dorothy MacEachran, Smelter, in an


Angelo Barberia, Railroad, wins high average, high match prizes.

Clarence Tremblay, Railroad, high individual game, 234

Otto Hammerberg, Allouis


Rudy" Hellner, "big gun" of the Smelter team.

"Bill" Chapman, Lake-Tamarack, third with 175 average.

FEBRUARY, 1947

C. & H. NEWS - VIEWS


Rudy" Hellner, "big gun" of the Smelter team.

"Bill" Chapman, Lake-Tamarack, third with 175 average.
Smelter Bowling Team Wins C. & H. League Championship

The Smelter team repeated its 1945 success in the C. & H. Bowling League by winning the Klop sch trophy for the 1946-1947 season. Smelter hosted the Ahmeek Surf ace team in the finals rolled at Miller’s Recreation on February 14th before a large group of admiring bowling fans. The “pressure was on” for both teams and as a result, neither team bowled as well as usual. However, the Smelter, real bowlers when the chips are down, came through to win the first two games of the match and the league championship.

The annual bowler’s banquet was served at the Hec la Fire Hall immediately following the playoff finals. W. L. Pet.

Lake-Tamarack .......... 22 11 .667

The Smelter Surf ace .......... 22 11 .667

Pepsi Cola .......... 22 11 .667

Ahmeek .......... 22 11 .667

F O O D. 1. Plenty of water so the there people who live past 65.

2. Food and medicine should be taken in moderation and care should be taken to keep the body well and live to old age. Smelter

It also furnace phosphorus, the body fat starts the development or
dietary of a healthy (nutrition) routine. E. Fruits, green vegetables, whole wheat bread and milk are valuable in providing vitamins and preventing or correcting constipation. Milk not only supplies calcium, a mineral which is needed by everyone for the bones and teeth, blood and nerves, but it also furnishes phosphorus, protein, iron and vitamins A, B, C, and D, in varying amounts. One pint daily for adults, one quart for expectant mothers.

Next to be mentioned is EXCESSIVE BODY WEIGHT especially after the age of forty because too much body fat starts the development of changes in the blood vessels, liver, heart and kidneys which are incurable but the progress can be slowed down if fried foods, fats and sweets are restricted enough so the weight is controlled. There are not many fat people who live past 65.

Next in importance is ENOUGH SLEEP. Some people require more than others but few can keep in the

How to Live Longer

By W. A. Manthei, M. D.

Do not bother to read this unless you are interested in the following hints concerning general health, which are universally accepted as applying to every citizen and every age and which are essential to all who wish to keep themselves well and strong and more resistant to diseases.

First, and perhaps most important, may be mentioned FRESH AIR and EXERCISE. The sleeping room should have fresh air by opening the window enough to allow it to enter the room so the hours of sleep are spent in fresh, pure air. Office and indoor workers should make it a part of every days routine to take a definite amount of outdoor exercise both winter and summer.

Next in importance are FOOD and DRINK. Plenty of water is necessary that there may be abundant excess to wash out the waste products through the lungs, skin and kidneys. One or two glasses of orange juice and a glass before each meal is a healthful routine. E. Fruits, green vegetables, whole wheat bread and milk are valuable in providing vitamins and preventing or correcting constipation. Milk not only supplies calcium, a mineral which is needed by everyone for the bones and teeth, blood and nerves, but it also furnishes phosphorus, protein, iron and vitamins A, B, C, and D, in varying amounts. One pint daily for adults, one quart for expectant mothers.

Smelter also won cash prizes of $20.-00 for leading the league in the regular schedule with a percentage mark of .848; $19.00 for high average team score of 808; and $5.00 for high team match score of 232. Angelo Barba, Railroad, capped two of the individual prizes. $5.00 high individual average of 182 and $5.00 in individual average of 623. "Bach" was the big gun for the Railroad team all during the season. Clarence Trembanth, another Railroad, capped the $5.00 prize for high individual game with a total 234.

Following are the official team standings, not including the playoffs:

Smelter .......... 28 6 .844

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Trophies and Peninsula. .................... 22 11 .667

Near Finalists:

Ahmeek .......... 28 6 .844

Lake-Tamarack .......... 22 11 .667

Pepsi Cola .......... 22 11 .667

Ahmeek .......... 22 11 .667

Mediately following the payoffs finals. W. L. Pet.

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Pepsi Cola .......... 22 11 .667

Ahmeek .......... 22 11 .667

Smelter Surface .......... 28 6 .844


Lake Linden High School Basketball Team, 1946-47

Seated, left to right: Charles Turner, Jack Messore, Robert Hallet, Carl Johnson, Ken Shattuck.

Standing: Assistant Coach Robert Giroux, Fred Daley, Manager; Alfred Keel, last year’s team manager; John Desiatto, Charles Zanardi, James O’Toole, Father James Fitzpatrick, Coach.
C. & H. EASTERN BUYING AGENT VISITS CALUMET

K. S. Williams of Pittsburgh, Pa., is a frequent visitor at the Calumet office. In February, Mr. Williams, as the buying agent for the Secondary Copper Department, is the eyes and ears of the company's scrap business which has in the past year or so provided an increasing source of copper to augment mine production. Mr. Williams, "Ken" to those who know him, maintains an office in Pittsburgh from which he calls on the metal dealers and brokers and provides an outside contact with the very changeable and unpredictable market for scrap metals. Scrap wire in one form or another is the major source of secondary copper, and Mr. Williams has spent many years in the wire business. He became associated with Calumet and Hecla secondary copper operations and Mr. Williams has been responsible for the increase in scrap business. On January 30 and 31 all employees were handed two copies of the W-2 form stating the amount of their earnings. The explanation of exceptions is self-explanatory: (a) if married, give name of wife or husband; (b) if self-employed and not the party referred to in (a) had income NOT included in Line 3; (c) if income of both husband and wife is included in Line 3, then a division of that amount must be shown.

Line 5—Occupation. If a combined return is made, state both husband's and wife's occupations; for example, such as mine and housewife; salesman and teacher, etc.

The explanation of exceptions is well defined and should be read carefully.

Be sure to sign the Return and MAIL ONE COPY OF FORM W-2, which was handed to you, to THE COLLECTION OF INTERNAL REVENUE AT DETROIT, MICHIGAN, or to the Branch Office at Marquette, Michigan. Keep a copy of the form as you made and mailed it out.

2181 EMPLOYEES NOW ON COMPANY PAYROLL

The number of employees at Calumet Division increased by 145 during the past thirteen and one-half months. Underground department accounts for 91 men and the surface departments for the remaining 1274 men of the total increase. Recent figures reveal total employment at 2181. During the past five months the underground was able to fill its main-power needs for present operation schedules, after having been plagued by the manpower shortage which existed throughout the period of World War II. Many of the new employees formerly worked in mines in the south end of the county, which are now closed. Many others were returning veterans. The increase in surface employees was due largely to the expansion of Smelter operations, including, among other things, the melting of ore from Quincy Reclamation and the Isle Royale Copper Company.

While job openings are not as numerous as they were a year ago, some hiring is still being done for underground work. Applications for this type of work are being received at the Company's Personnel Department.

A Group of Skating Enthusiasts

Katherine Zimmermann of the Hospital and Howard MacLeod of No. 3 Allouez, stop skating long enough to have their pictures taken with a group of young skating enthusiasts.

Calumet Hockey Team of Laurium, 1904-1905


HOUSEHOLD HINTS

If you place a tablespoonful of ammonia in a dish containing a cup of snappy water in the oven after it is cool, close the door and leave it overnight, all the creases will loosen and can be wiped off with little effort. Wipe the oven inside with a clean damp cloth, then with a dry one, and let it air for several hours before heating it for use.
GRANT AWARDED TO
PENN STATE COLLEGE

During the way years, copper oxide was in such demand by the Navy Department that subcontractors of the government requirements could not be met, and as a result manufacturers were forced to use substitute materials. Competition always retains a part of these gains, and it is necessary that a continuous search be conducted to find new markets for our products.

In keeping with this policy, the Company has made a Research Grant to the Agricultural Experiment Station of Pennsylvania State College, State College, Pennsylvania, to investigate the use of various types and grades of the copper oxides produced at the Lake Linden and Tamakar plants as fungicides for control of diseases common to various fruits and vegetables.

The Grant is effective for one year, and active work on the project will start about March 1.

SNOW FALL LESS THAN DURING THE PAST YEAR

Despite the fact that February brought some very severe weather to the district, the snowfall this year is about 30 inches under the total for the same period of a year ago. The latest report of the company's weather bureau shows a fall of 126 inches for the season.

In spite of the heavy storms of February the district did not suffer from the weather, as did other parts of the country where business came to a standstill because of snow storms. Snow removal equipment kept all highways open constantly and little delay was experienced. During the winter of 1946 a total of 116 inches of snow had fallen by the end of February. While the fall has been light this year it is not to be compared with the winter of 1930-31 when a total of only 8114 inches fell during the winter.

The temperature so far this winter has been higher than in recent previous years, the lowest being 9 degrees below zero this season as compared with 19 below last year.

The lowest temperature ever recorded in Calumet was during February in 1888 when the mercury dropped to 25 below zero and the second lowest reading was in February of 1933 with 26 below. February brings the lowest readings of each year. During January of 1912 the average temperature here was one degree below zero. During the month of February in 1931, however, the daily average temperature here was 31.1 above zero. The highest average for the month of March was recorded during 1951, however, the daily average temperature here was 31.2 above zero. The highest temperatures on record here were during July of 1917 when the thermometer reached 104 degrees for one day.

The average temperature throughout the year varies only a degree or two since the institution of the weather bureau here in 1888. Year in and year out the average has remained at 60 degrees.

Join the Red Cross

During the month of March the American Red Cross hopes to enlist every possible person in the country in the great army of mercy, which for many years has provided help for unfortunate people throughout the world. There is no better investment than a membership in this great American Institution, whose help in time of need knows no barriers of race, color or creed. If a solicitor for the Red Cross should fail to contact you, drop in at the Red Cross office next to the Kewanee Printing Co. and volunteer your membership.

Mr. Gervase T. Murphy
Dear Sir:
After enjoying reading your paper this past year, I have decided to continue my subscription again this year.
I was a resident of Calumet for several years, and I also was employed in the Motive Power Department for several years. I find the paper of great interest to me and my family. Your paper is a great success.

Sincerely,
Frank Kentor
1317 South 5th St.
Lafayette, Indiana
P.S.—Enclosed you will find a dollar for my coming subscription. Thank you.

PUMP LINERS MADE HERE

(Continued from Page 1)

The 25th level is 3,235 feet on the incline from the shaft collar, and shaft sinking will be started below this point when the 3,234-ft objective is reached. The 36th level drift north of Ahmeek No. 4 shaft has been extended 7,500 feet, just beyond the line of Seneca No. 2 shaft, and work is already underway on this level preparatory to the start of a raise which will be driven to meet the sinking operations from the 25th level in Seneca shaft. A second raise has been started between the 33rd level drift north of Ahmeek No. 4 shaft and the 30th level. The inclined distance between the 25th level in Seneca shaft and the 30th level in Seneca No. 2 shaft and the 33rd level north of No. 4 Ahmeek shaft is 2,053 feet, making the total inclined distance from the collar of Seneca shaft to the 33rd level, when the shaft is completed to this point, 5,523 feet.

The entire area adjacent to Seneca No. 2 shaft both north and south between the 25th level in Seneca and the 33rd level north of No. 4 Ahmeek shaft has not been explored. It is hoped that this work will open up an orebody of commercial grade. If such an orebody is discovered, before maximum production of 2,600 tons per day can be obtained from this area a large amount of development work must be done to obtain the desired tonnage. This work will require about three years to complete, but other things being equal, it is hoped to have the shaft on a self-sustaining basis by January 1, 1949.

Eight-ton skips and 5-ton tram cars will be used underground, and breaking and handling of ore will be mechanized with the most modern equipment that can be obtained suitable for Copper Country practice. Automatic drilling machines, jumbos, tram cars and skips, mechanical loaders and scrapers, and underground locomotives are on order in the amount of $300,000. Providing Seneca No. 3 exploration is successful, most of this equipment will be used at this shaft; otherwise it will be used at some of the other Calumet and Heca properties.

Drifting At Iroquois Shaft

Glen Beaton, Gust Erickson, Roy Mottonen, operating jumbo drifting machine