## ROUYN HAS THE TALLEST STACK ON THE CONTINENT

Chimney on Horne Smelter at Noranda is over 420 Feet in Height.

On more than one occasion The Advance has had reference to the big Noranda, Rouyn district, Quebec. it. It is 422-feet, 6 inches high from brick. The chimney, which is a unit of tional concrete and steel reinforcing FIRST THIRTEEN MILES This immense structure is of interest the base to the top of the shaft, and the copper-smelting plant, produces various sections is computed and a not only to the people of Rouyn but 18 feet in diameter inside the lining draft for and carries off dust and side of the opening. also to all in the North. It is the at the top. This height exceeds by gases from four roasting and two The chimney is lined for its entire tallest re-inforced concrete chimney 13 feet 6 inches the previous record reverberatory furnaces and two con- height with 4-inch acid-resisting viton the American continent and so height of 409 feet, of two re-inforced verters. Before reaching the chimney reous brick, laid in special acid-proof has naturally attracted considerable chimneys built by the same designers the gases pass through a Cottrell dust is placed above, below and on each attention. The stack was erected and erectors at Trail. British Columlast year and E. H. McDermott, writ- bia, in 1924 and 1925. The base of ing in the Engineering and Mining the chimney, 883 feet above sea level,

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Journal gives a graphic description of is supported on a foundation of solid

collector. The stack is designed for mortar and built in 45-foot sections a capacity of 550,000 cu. ft. of gas from the concrete shell. An air space per minute at temperatures from of about 2 inches is maintained be-300° F. to 450° F. Outside temperativeen the lining and concrete shaft; ture ranges from minus 40 to plus 90 and at the junction between the secdegrees F. Draft at the base is from tions of lining, a lead flashing is in-11/4 to 11/2 in. water column. The stalled to protect the joint. A lead shaft is designed to withstand the ef- coping covers the top of the lining, feets of acidic gases within and the air space and shaft. As protection combined loadings resulting from its against gases, the top 100 feet of the own dead weight and a horizontal outside and the entire inside of the wind pressure of 25 pounds per square concrete wall is covered with a specisists of a concrete ring 7 feet 6 inches mastic paint. deep, 35 feet outside diameter and The concrete mixture for the base 23 feet inside diameter, reinforced in- of the chimney consisted of one part to the top and bottom with rings of cement, two parts sand and four parts 1 inch steel bars and with 3/4 inch bars gravel. The mix for the remainder arranged radially. The shaft is con- of the shaft consisted of one part HIGH-GRADE SAMPLES nected to the base by means of 206 cement, two parts sand and three one-inch dowels, which start with parts gravel, and the consistence of hooks securely fastened under the bot- the mix was carefully regulated to setom steel of the base and project up- cure a uniform quality of concrete. ward into the shell a sufficient dis- An average slump of 6 inches was tance to provide ample bonds between maintained. The coarse aggregate supply. the dowels and the concrete. Half was high-quality washed and screened the bars project 4 feet and the other 11/4 inch. Fine aggregate consisted a prospector through the medium of half 11 feet 6 inches.. The shell is gravel, graded in size from 1/2 inch to an airplane crash reminds one that reinforced with vertical and horizon- of washed and screened sand ranging there are dangers on the trail of '28. tal steel; the former takes care of in size to particles passing a 4-mesh tension stresses resulting from the screen. wind load and the vertical expansion from temperature changes. The a steel platform was installed to ex-The total area of steel required as tend around one-fourth the circumtotal area of steel required at ference of the shell. This is used as skirt is to some extent left to the number of bars are selected to meet an observation platform, from which discretion of the wearer. So, this is the necessary conditions and not to readings and samples of gases are be spaced at too great a distance. To taken through openings in the chimmeet these conditions in this chim- ney. It is reached by way of a steelney, the number of bars varies from guarded ladder that extends the en-206 1-inch rods at the base to 57 1/2- tire height of the shaft above the top inch rods at the top. The horizontal of the breeching. The top 50 feet of steel withstands all corcumferential the ladder is coated with 1-16 inch of tension arising from temperature lead to protect it from acid fumes. variations in the chimney wall. It | The contractor's special sectional

zontally. 300 feet high and is located about 20 feet above ground level. Addi-

foot of projected area. Its base con- ally prepared acid-resisting bitu- left here on the return journey and

At a level 120 feet from the ground | much as she thinks she has.

consists of electrically welded rectan- all-steel forms were used in the congular wire fabric, with rods spaced struction of the concrete shell. The 3 inches vertically and 16 inches hori- forms consist of internal and external segments, adjustable to any wall To distribute the weight of the thickness or diameter. A scaffold is chimney properly the wall is made suspended from the outside of the heavy at the bottom decreasing in forms for the use of workmen in makthickness towards the top, thus plac- ing adjustments and finishing the coning the centre of gravity low in the crete surface. A wooden scaffold was structure and increasing the stability. erected inside the chimney as work The flue opening is 11 feet wide and progressed; this supported a special "cat head," consisting of four crossed timber beams. From these the forms were suspended, and above them was arranged a derrick arm from which the hoisting cables extended down the inside to the concrete loading platform and down the outside to the hoisting engine.

Lightning protection consisted of twelve points attached to the top of the shaft and grounded by means of two cables terminating in plates set in permanently moist earth. The top 50 feet of the system was coated with 1-16 inch lead. A large cast-iron door as the base provides access to the lower portion of the chimney.

the meeting, an optimistic report of Construction operations began in April, 1927 and were completed in 162 days. Noranda being located at about 49 degrees north latitude, it was necessary to schedule the work during the season when no extremely cold weather would be encountered The programme worked out so well that the job was completed a few days before the first cold weather arrived.

The chimney was designed and erected by The Rust Engineering Company, of Pittsburgh, Pa., under the direction of Eric Plagwit, manager of the chimney division.

#### OPTIMISTIC REPORTS IN REGARD TO THE HAYDEN.

According to references made to the meeting, an optmistic report of progress on the property of Hayden Gold Mines, Ltd., was given to the shareholders by President James S. Pierce at the annual meeting. Diamond drilling is now in progress and four holes have been completed to a depth of approximately 1,000 feet with encouraging results. It is now proposed to actively continue drilling of greater depths. It is announced that Percy E. Hopkins has been engaged to make a detailed survey during the latter part of May. The company's holdings consist of eight claims on the boundary line between Deloro and Ogden townships, and are under the management of Seymour Stephens. The officers and directors, as elected are: President, James S. Pierce, Buffalo; vice-president, Bert W. Lang, Mimico; secretary-treasurer, Willis Spaulding, Buffalo; directors, R. C. Berkinshaw, Joseph Mont gomery, Bart Sproule, E. T. Phillips and M. M. Hasserot.

Recently I chanced to meet a friend in Portland and he greeted me with: "Hello, old Top! What's the news?" I answered, "There is nothing new under the sun." Ten minutes later I went into a show house and heard a Chinaman play the "Star-Spangled Banner' on a Scotch bagpipe. Then I realized that I had, unwittingly, lied to my friend.-Making Paper.

### WOULD BE THE VERY WORST

Apparently, there are some people who disregard popular superstitions, and get away with it. Nearly everybody has some superstition or other, but those beliefs that regard thirteen as unlucky, Friday as an unfortunate day, and Friday the thirteenth as especially deplorable, have Nickel Co. about the 2,000 foot level. attained a considerable acceptation. Hautane received severe injuries Those who scorn such beliefs have about the head and thorax. An insupport in such a paragraph as the following from the last issue of The Pas Herald, of The Pas, Manitoba:-

left for The Pas on Friday, April 13th. They were all alive when they the best wishes of the citizens of The Pas went with them for a safe journey-but 13 in the party travelling on Friday the 13th."

### FROM RUN OF THE PRESS

Sudbury Star:-Home runs are again listed among the items for which the demand is greater than the

North Bay Nugget:-The death o Perth Expositor:- When a man leaves his wife she hasn't lost half as

Vancouver, B.C., Sun:-A fashion note tells us that the length of the discretion!

Mount Clemens (Mich.) Leader :-It isn't the fear of death tthat makes some people drive carefully; they just hate to get the new car scratched up.

Milwaukee Journal:-The ideal parking place has at last been found. During a storm a steamer dumped 21 automobiles upon the bottom of Lake Michigan.

#### MAN KILLED THOUGHT TO HAVE BROTHER IN TIMMINS

The Sudbury Star last week says: "Caught between the skip used for hauling ore and the timbers of the shaft, Antti Hautane, 20 year old miner, was instantly killed at 3.30 o'clock on Monday morning in the Frood shaft of the International quest will be held this afternoon. Hautane had only worked at the Frood mine for about a month. He "Thirteen Winnipeg business men previously worked in the lead mine at Galetta. The body was removed to Jackson's Undertaking Parlours. It is understood that brother is living in Timmins."



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