



ACROSS THE RUGGED COUNTRYSIDE of Northern Ontario, over hills and under rivers, the Trans-Canada pipeline is being laid simultaneously in a number of "stretches" or sections. This photograph shows laying of the 30 inch pipe near North Bay.

Horse Still Has Important Role

The Royal Agricultural Winter Fair's horse show is unique in this country, for no other Canadian city stages such a comprehensive program of all-round equestrian skills, and draws such a high standard of international competition," stated the Hon. Douglas S. Harkness, Minister of Agriculture, Ottawa, in a statement of commendation about the Royal, which opens in Toronto next week.

"The horse is still playing an important part in agriculture, even in Canada," the Minister continued. "At present we have a horse population of about 750,000 giving aid to the small farm, which is the unit of our primary industry."

Gala Opening
A gala and colorful opening ceremony has been planned to launch this year's Royal, with the Right Honourable Vincent Massey, Governor-General of Canada, in the spotlight. Charles F. W. Burns, President of the Royal, and His Worship Mayor Nathan Phillips, will also participate in the opening ceremonies. The latter will extend a welcome to teams from the United States, Mexico, Cuba, Germany and Canada that will compete in the international jumping events.

More than 120 judges from several different nations will select prize-winning entries from the 1300 horses, 3000 cattle, 700 swine, 1000 sheep, 500 poultry and pet stock and the large display of vegetables, dairy and poultry products, fruit and flowers, maple products and grain.

Grain King
Again this year the Royal offers eight grain championships, which other countries recognize as international World championship winners in 1957 were A. Davidson, Manungton, Essex, England, wheat; William Whitehead Sr., Kelowna, B.C., R. W. Hummel, Milk River, Alta., barley; Jack McInnis, Benito, Alta., rye; A. C. Stewart, R. R. Greensburg, Indiana, ear corn; G. L. Clums, Ridgeway, Ont., soy beans; and Bowen Roberts Farms Ltd., Finchfield, Essex, England, forage crop seeds.

Arthur Godfrey, one of America's foremost radio and television entertainers, with his prized horse Goldie, will participate in the horse show each evening, and on both Saturday afternoons, during the eight days of this year's Royal.

The apple trees planted in Nova Scotia by the Acadians, founded the province's world famous apple industry.

It's a Tricky Job

Blast Gas Pipeline Through Wilderness

Across the rugged wilderness of northern Ontario and under its swift rivers, through tourist resorts and built-up areas, even through the site of the plant producing the dynamite used to blast its path, the last section of Trans-Canada pipeline is being laid. Its one major construction project of an area which abounds in big jobs but for the most part the work has gone on without the fanfare usually attending such accomplishments.

Pipeline construction in Canada actually dates back to the building of the transcontinental railways in the last century. Achievements themselves made possible by the development of dynamite, a far more efficient explosive than the black powder it replaced. But it was not until the discovery of a rich supply of vast reserves of oil and natural gas in western Canada that it gained major status. By 1927 a year which saw more than 2,000 gathering and transmission lines laid a cross-country system of pipelines was well under way.

Gap Still Open
At the end of the year, the Trans-Canada pipeline was about 60 per cent complete, 1,253 miles from the Alberta border and the 206 miles from Toronto to Montreal. The northern Ontario gap remained to be closed.

Preparation of the 1,250-mile pathway from the Lakehead to Toronto, clearing of the right-of-way and blasting of an eight-foot deep trench in which the pipe is to be laid, is being done in spreads, in sections of approximately 100 miles by a dozen different contracting companies. With these spreads in progress, the fall the Trans-Canada pipeline will be a reality and western gas will flow to the industrial east.

The last amount of explosive being used is well in excess of the 27,400 pound load to clear the Ripple Rock as a navigation menace but now of the best even the underwater one is an awe-inspiring feat. And it is Ripple Rock there are problems to be overcome, an average of about one inch over the route of about 1250 miles.

Tricky Operations
Blasting of the trench in the bed of such a turbulent river as the Kapuskasing, French and Ground Hog rivers 400-600 feet wide and up to 30 feet deep is one of the trickiest operations a contractor or explosives engineer can be called upon to carry out. The best evidence of their ability to overcome such problems is the fact that construction is right on schedule.

The Ground Hog river, crossing at Fauquier, Ont., to Kapuskasing, is an example. A 100-foot trench, capable of carrying the pipe, had to be blasted in the river bed. The drilling subcontractors, Ontario Rock Drillers Limited and the explosives suppliers, Du Pont of Canada, pooled their experience and resources. Some 1500 pounds of an explosive with special under-water detonating qualities, 85 to 90 per cent gelatin were lowered cartridge by cartridge into six-inch holes drilled into the rocky bottom 20 feet below at mid-

stream. In a matter of seconds the blast produced a trench some 400 feet long, eight feet deep and eight feet wide.

Heard Their Work
In direct contrast was the crossing of the Don river near Toronto. The problem there was to prevent the 2000 pound gas to hold open the last built-up area, so explosives engineers used the millisecond delay technique to lessen the shock waves firing only two or three small underwater shots at a time. But if the construction project has its problems, it also has its unusual situations. Near North Bay, the contractors, Morrison-Shivers Limited, cleared a right-of-way near the former home of the

Donne quintuplets at Callander and then right through the site of Nipissing Works, a Du Pont of Canada plant which produced the explosives being used to blast the trench. At their jobs, the plant's 150-odd employees could hear the distant boom of the dynamite they had turned out a few days before.



THIS BLAST at the Ground Hog river used about 14,000 pounds of a type of dynamite 85 to 90 per cent gelatin with special underwater detonating qualities to provide a 400-foot long trench, eight feet deep and eight feet wide, in the bed of the river.

Rocks Thrown in New Pool Committee Fears Tile Harm

OAKVILLE Indifferent to any damage they might cause, mischievous youngsters have been throwing rocks into the recently completed Lions Club Community Swimming Pool near the Oakville arena. Jack Cornwall, a member of the Lions Club's pool committee, said that there are now about 75 stones, many of them large ones,

Some bottles have also been thrown into the pool. However, the novelty will probably wear off after a while. The children who have been doing this should realize that the pool is for their own benefit.

Mr. Cornwall does not think any actual damage has been done to the tiles so far but said that some damage might result if the stone-throwing continued. The pool, which is now empty, will have the debris removed from it before being filled again for the winter.

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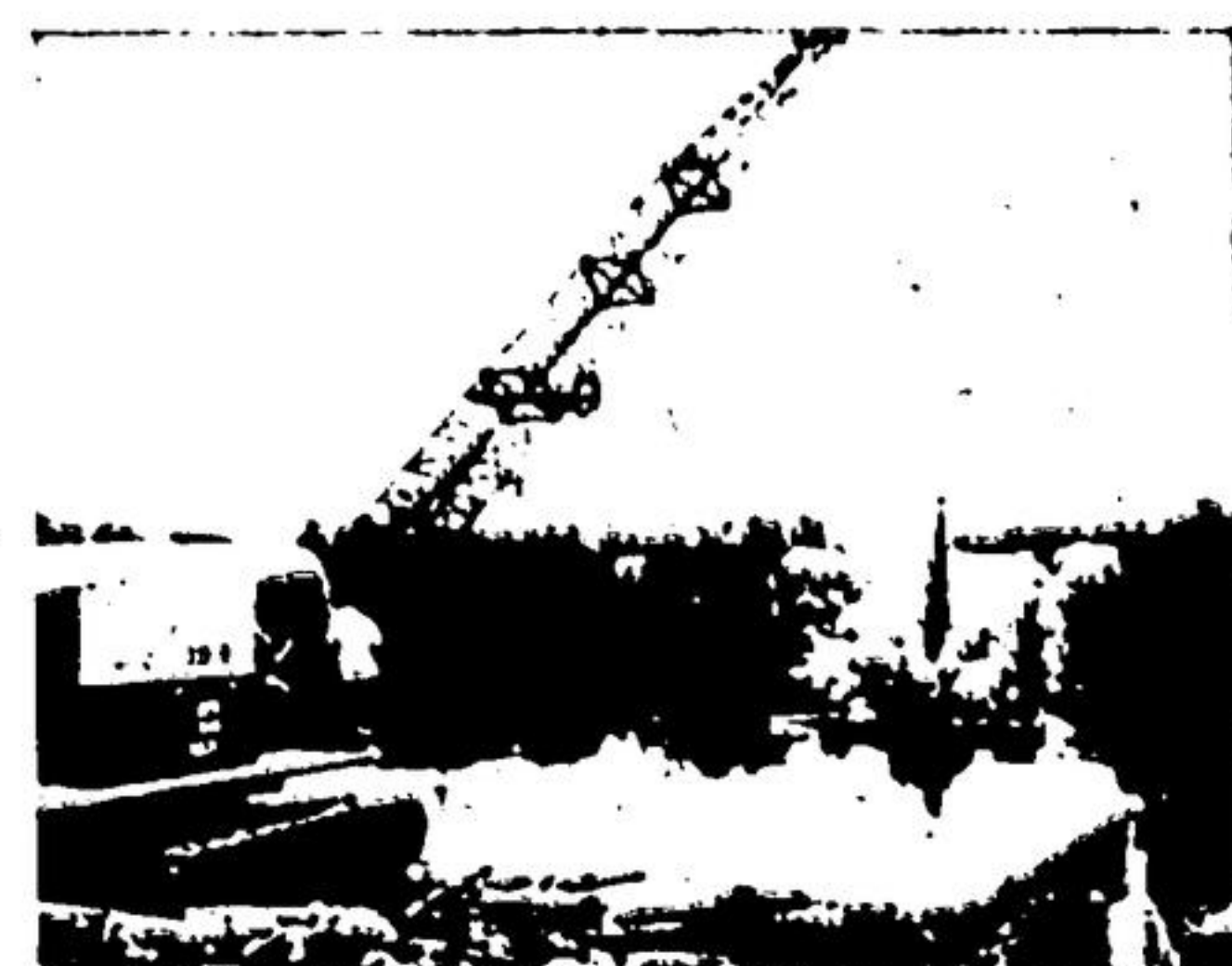
GEORGETOWN The Georgetown Chamber of Commerce will circulate downtown businessmen to see what can be decided about parking. Mayor Armstrong reported to council.

The mayor laid out in a meeting of business, civic and Chamber of Commerce officials, the kind of which a downtown parking garage would be needed. A large number of businessmen will be asked a number of questions about what they consider the best type of parking and what they would be prepared to contribute financially to a municipal parking garage.

Nova Scotia was one of the four provinces to enter Confederation on July 1, 1867.



PRESIDENT W. T. Copping of Ontario Rock Drillers (left) watches as Lloyd Raney, Du Pont of Canada explosives engineer, lowers a 15 pound cartridge of explosives into a hole drilled in the bed of the Ground Hog river at Fauquier, near Kapuskasing.



ON LAND AND UNDER WATER work goes on. A drag line operates on the bank of the Ground Hog river with the barge in the background drilling six-inch holes at five-foot intervals in the bed of the river, 20 feet deep at mid-stream.

WRESTLING

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