THE TORONTO WORLD SATURDAY MORNING. AUGUST 24 1895

## ONTARIO PETROLEUM oil is ready to be barrelled for ship-The tar or residue remaining after

COAL OIL IN THE FRONT RANK OF CANADIAN INDUSTRIES.

Process of Pumping and Refining Crude Petroleum-Its Many and Useful Pro-into a freezing vat, and from 8 to 10 per cent. of parafine wax crystallizes out ducts-History of the Coal Oil Find at Petrolia and Oil Springs.

The study of the petroleum industry of Ontario is a study of small begin-dies, while the smaller portion is used dies, while the smaller portion is dies. nings which are rapidly developing into great enterprises. From being a small and very unimportant branch of Canadian activity, it has advanced into the front rank of Ontario indus-tries. The first attempt to utilize Cana-

tigrease, and vaseline. dian petroleum was made about the 1859. At that fime liquid oil was is incurred in the manufacture of pe extracted by rude processes from "gum oil," a thick, black substance which found its way to the surface of the ground in the neighborhood of Oil Springs, County of Lambton. The next step was to dig surface wells from 40 step was to dig surface wells from 40 to 60 feet deep, and having a shatt of from four to six feet in diameter, the best brands of American manufac lubricating oils are competing on almost equal terms in the markets with into which the oil oozed up through the ture .-- The Canadian 'Magazine. porous soil. This crude oil was then

ped to the surface by hand power Holmes Ran a Glass Factory. and taken to the refinery, where it was Chicago, Aug. 23 .- Another of H. H. partially refined and made ready for Holmes' mysterious buildings has been discovered. The building is boarded up In 1861 an attempt was made to drill in the rock at Oil Springs. This new departure was highly suc-cessful, and flowing wells were struck which produced large quantities of oil. Owing to the fact that drilling tools lan, carted away last of the furnitu often dropped through and were lost and other stuff that was in the bull

often dropped through and were lost it was inferred that these wells tapped some large crevice filled with oil and gas, and when this crevice was emp-tied the well was either abandoned or pumping resorted to. The greater part of the overflow from these early wells was lost during the interval between the striking and the controlling of the flowing oil. In 1860 similar wells were struck at Petrolis, but in no case did ck at Petrolia, but in no case did been the presiding genius of the place The Coming Show.

the illuminating oil has come off is re-

distilled, resulting in a yield of 70 per

cent. gas-oil, used in the manufacture of illuminating gas, and 30 per cent, of

squeezed out of it by pressure, and is

then refined by chemicals, one part of

This wax has all the oil

parafine oi. This parafine oil

from it.

the flow continue for any length of time, and at present all the oil produced in Ontario has to be pumped.

Sells' Brothers' astonishing aggregation and their city of white tents, which will visit Toronto on Aug. 29, is said to be the largest show that has ever exhibited in this city. Magnifect three-ring circus, the continuent methods a well can be drilled ing a well was very slow and expen-sive, but with modern machinery and better methods a well can be drilled in from three to six days, and \$150 to \$160 is sufficient to cover the cost. At first drilling was done with cable tools, but this method has been en-tirely done away with, and at present ash poles are used to connect the en-gine beam with the drill—a steel bar three and one-half inches in diameter and from 25 to 30 feet in length. The well is drilled out to a diameter of

well is drilled out to a diameter of about 4 5-9 inches and casing is put Bradstreet's Decrics Manitoba. New York, Aug. 23.—Bradstreet's says : Montreal and Toronto jobbers down as the boring progresses to keep down as the borng progress the action water from interfering with the action of the drill. Says: Montreal and Torowement in anticipate a sharp improvement in trade in the fall. The millinery open-

After the oil is struck a pump of 1 1-4 to 1 1-2 inch tubing is put down and the well is ready for operation. Formerly much of the pumping was dome by hand, but steam engines have taken the place of manual labor, thus largely increasing the output of the wells. One engine furnishes power sufficient to pump from six to intery wells, by means of a combination of pump rods working on a horizontal wheel so arranged that their weight balances one onother, and minimizes the power required. The petroleum after being pumped ings and Industrial Exposition at the The petroleum after being pumped was 29, one year ago 30 and two years ago 47.



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