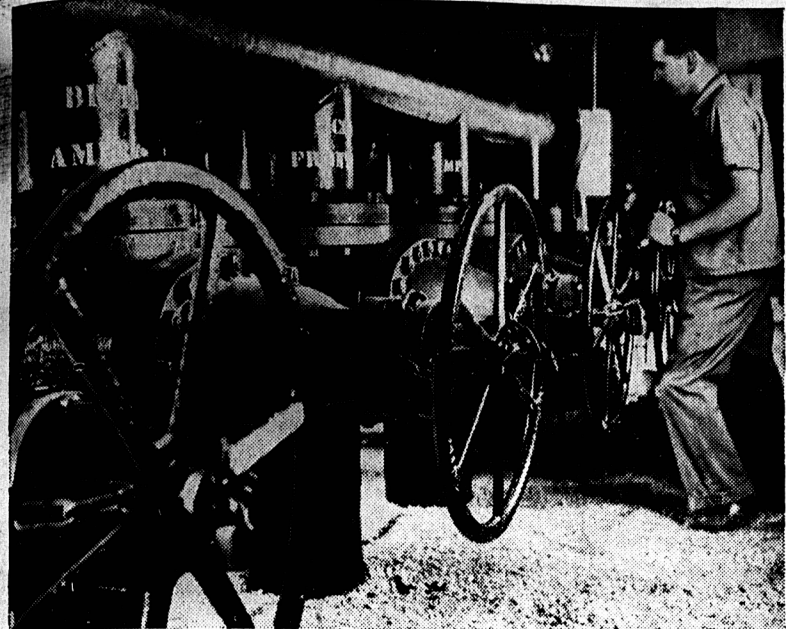
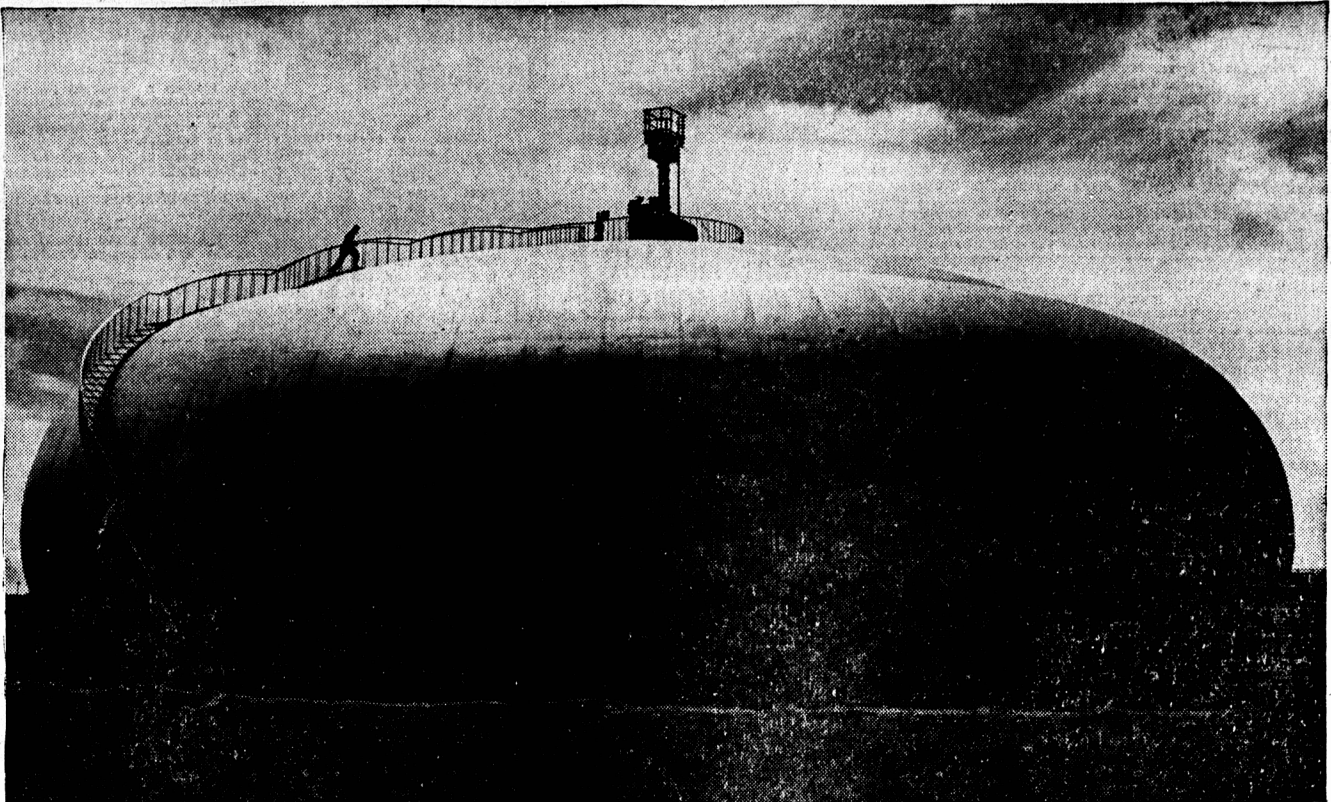


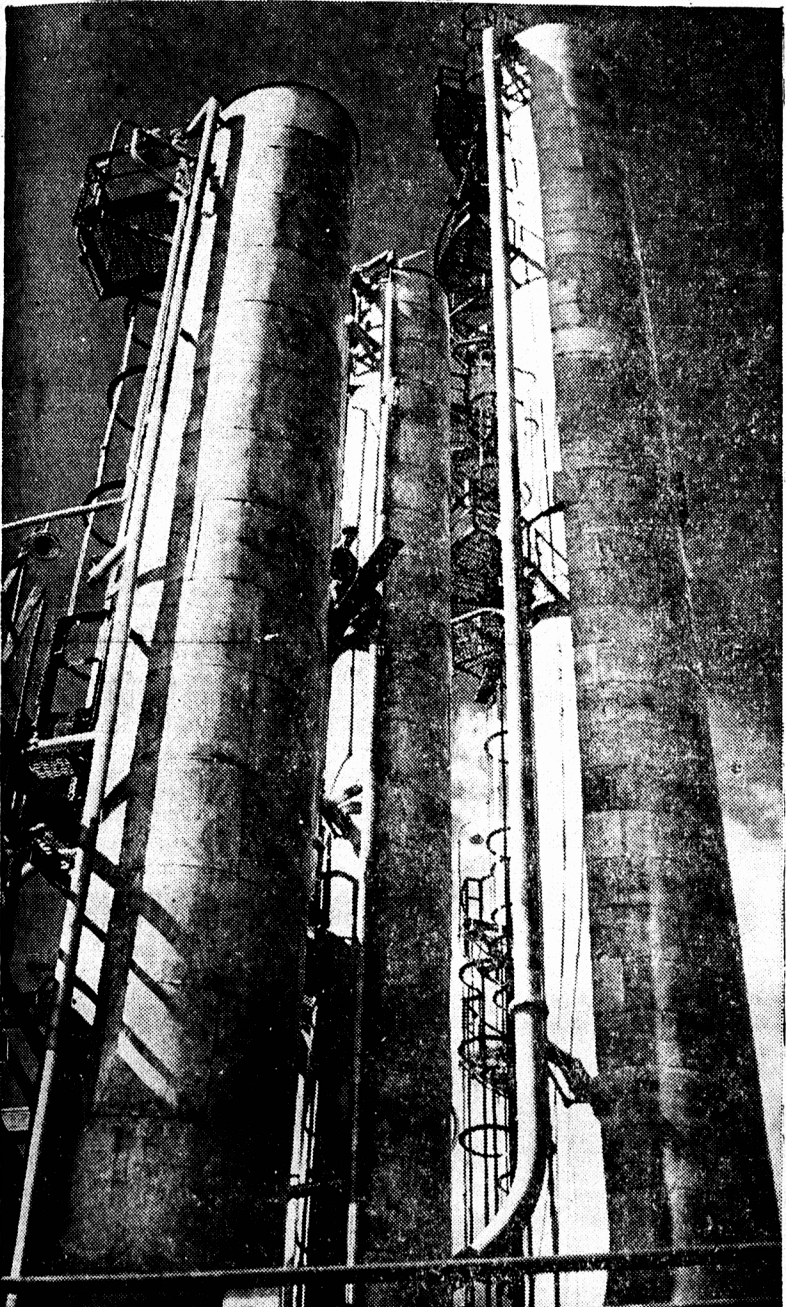
# Canadian Gasoline Production Strained To Meet Increased Wartime Needs



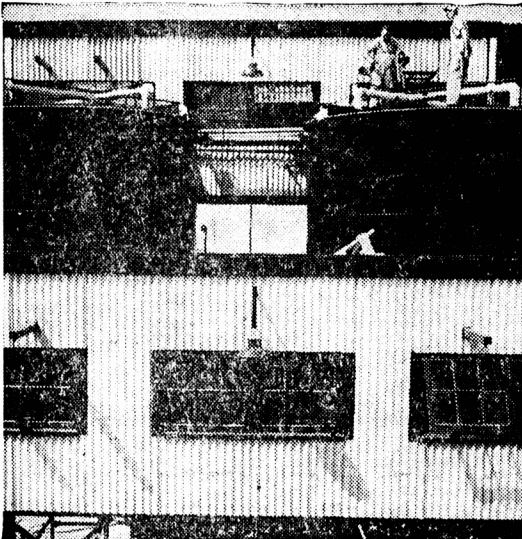
Oil pipeline from Portland, Maine, to Montreal runs approximately 60,000 gallons a day to service four leading Canadian companies. The pipeline extends for 246 miles and is four to five feet underground. Here, manifold control oil flow.



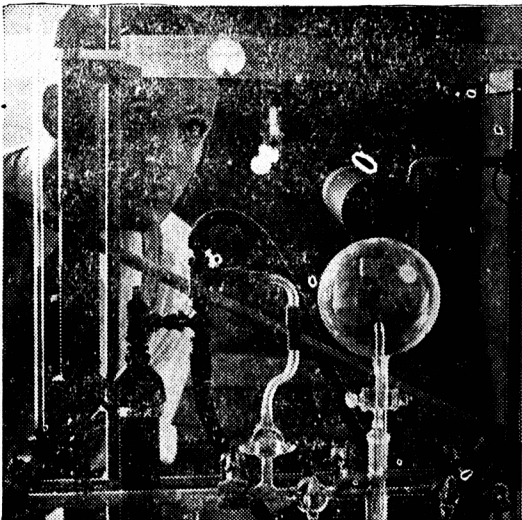
This onion-shaped tank at the Imperial Oil's Montreal East plant is called a Hortonspheroid. Tank is built in this shape to guarantee continued pressure on gas to prevent loss by evaporation, part of the company's own program of gasoline conservation. The small top permits the application of pressure. A worker goes up stairs to tap off a sample of gas for laboratory tests.



Fractionation section columns—cracking plants—where crude oil at a certain temperature is put under a controlled pressure until it actually cracks the molecules which permit the separating of lubrication oils from the fuel oils.



Acid-reclaiming plant, where spent acid is mixed with water to separate oil. Then water is removed and acid used again. Acid is catalyst in cracking.



Infra-red spectrophotometer, a Shell Oil device, tests feed stocks for alkylation plant and proofs samples. Chief chemist E. C. Wilkinson operates it.



Hortonspheres at Shell Oil plant are slightly different from Imperial's. These contain normal butene and butane butylene used in making 100-octane gasoline for aviation. Ordinary car gas was reduced from 80 to 74-76 octane as a war measure.



Gasoline for the fighting fronts is loaded at Montreal aboard an ocean-going tanker. R.C.N.V.R. gun crew practise on the deck. Canada produces only 15 percent of her own petroleum requirements. Over 60 per cent is delivered by ocean tanker.



Loading railway tank cars at Imperial Oil yards in Montreal East. Between forty and fifty cars are loaded daily, shipped to Eastern Canada points.



Mr. John Public fills up at his local service station. He is the man who must cooperate to conserve fuel, help Canada's war effort in this vital field. Upon him depends the decision as to whether coupon values will be reduced this year.

National Film Board Photos by Ronny Jaques.