

# Washing Machine Unlocks Tough Oil Sands Riddle

CALGARY (CP)—Washing machines that dry clothes by spinning, a boon to the modern housewife, may be responsible for solving one of the greatest problems posed for oilmen by the Athabasca oil sands in northern Alberta.

Billions of barrels of oil have waited in the immense oil sands while engineers and scientists have tried for an economical method of separating the oil from the sands.

A washing machine and Gordon Coulson, a Canadian, are behind the decision of Royalite Oil Co. Ltd. to pour \$50,000,000 into development of the Athabasca project. Mr. Coulson's imagination was fired by the problem posed by the oil sands. He began to study all the available data on the sands and the attempts which had been made to recover oil.

**THEORY OF CENTRIFUGE**  
He tried and discarded most of the washing methods tried over the past 70 years. Then he struck on the theory of centrifuge.

One day, while sitting in his basement wondering where he could get a centrifuge large enough to make tests, he noticed his wife's washing machine.

Mr. Coulson mixed two samples of sand, oil and water, put them in the washing machine, started it spinning and awaited results. He removed the bottles after a few minutes. There was clean separation: a clean layer of oil on top, a layer of water and a layer of relatively clean sand on the bottom.

This household experiment pointed the way to what Royalite oil says now is an efficient separation process.

Royalite is planning a \$50,000,000 development program in the oil sands at Mildred Lake, 275 miles northeast of Edmonton, on a 50,000-acre lease estimated to contain a potential of 1,000,000,000 barrels of oil. Initial plans call

for construction of a separation plant and a 20,000-barrels-a-day processing plant as well as a 350-mile pipeline to Edmonton.

The entire project is expected to be in operation by 1960.

**NEW COMPANY FORMED**  
Mr. Coulson obtained capital for his centrifugal idea from S. M. Paulson, president of Mill Creek Oil Co., Calgary, and to continue experiments a new company was formed, Can-Maera Oil Sands Ltd.

A 50-barrels-a-day centrifuge was built in 1953 and moved to the provincial government pilot plant at Bitumount, north of Mildred Lake. The following year a 500-barrels-a-day centrifuge was constructed and shipped to Bitumount.

Can-Amara, realizing that handling, refining and marketing experience was needed for a successful enterprise, entered into agreement with Royalite Oil. In 1956 a remodelled centrifuge was

built with the result that units now can produce up to 5,000 barrels a day.

Mr. Coulson entered his father's building and contracting business in Vancouver after finishing technical school. In 1929 he came to Calgary and in 1951, after 30 years in the contracting business, accepted the challenge of the Athabasca oil sands and began experimental work on a separation process.

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## SHOT TWO

John H. McKinnon, son of Mr. and Mrs. Aeneas A. McKinnon of Pisquid but who now is working in Marathon, Ont., was one of the lucky hunters in that area this season. While out hunting one day Johnnie had the good luck of coming upon and shooting these two moose with a 30.30 telescope rifle 35 miles west of Marathon.

## STALIN STILL THERE

MOSCOW (AP)—The Soviet government Tuesday reopened the major sightseeing attraction—the Lenin-Stalin tomb in Red Square. It was closed at the end of November for "renovation." The bodies of Lenin and Stalin still lay in glass coffins side by side, bathed by a soft red light.

## PERSONALS

Mr. George E. Young left on Friday morning for Grand Bay, N. B., to visit his son-in-law and daughter, Mr. and Mrs. L. Hutchinson.

Master Darryl Cantelo is making a good recovery at his home in Belle River after having an operation in the P. E. I. Hospital.

## 'TIS MURDER TO LIE AWAKE COUGHING

'TIS JOY TO KNOW THE FIRST DOSE OF BUCKLEY'S MIXTURE BRINGS INSTANT RELIEF AND COUGH-FREE REST — or Double Your Money Back 50c and 85c

"ARE YOU IN IT TOO?"  
"What do you mean Sam?"  
"Well Mr. Jones, I see you are reading the Star Weekly with the BIG \$50,000 'Know Canada' contest."  
"You guessed right Sam. At our house we think the 'Know Canada' contest is a lot of fun—Betty and Bobby hope to win enough for new bicycles."  
"Mr. Jones, at my place my wife and children are so busy with those picture puzzles I have to make my own meals. You know, I think I'll have to get in the game, too. First prize is \$10,000 and that's really worth a try."  
"I'd say the Star Weekly 'Know Canada' contest is the best yet Sam. Good luck to us both."

Star Weekly "KNOW CANADA" Contest

Star Weekly "KNOW CANADA" Contest

# Special Meeting Of Montague Town Council Passes By-Laws

A special Council meeting was called by Mayor B. H. Yeo, Montague, for the third and final reading of the revised town by-laws Tuesday afternoon at the office of the Town Clerk. By-laws were presented, voted and passed individually. Present were Mayor Yeo, Councillors MacGowan, Vanderstine and Clements, and G. Arnold Wightman, Town Clerk.

**MONDAY**  
The following letter was read at the Montague Council meeting Monday evening by Town Clerk Arnold Wightman:

Hon. Mr. La Point:  
Post Master General:  
As of 9 a.m. January twelfth, the Montague post office and others in this vicinity were unable to receive or despatch mail for a period of forty-eight hours due to highways being blocked. This situation is not new. On one occasion last winter this area was without mail service for a period of ninety-six hours.

Between December fifteenth and May fifteenth there is a daily train service quite capable of carrying mail when the roads are closed.

# Load Potatoes At Souris Despite 12 Below Weather

The M. V. Marsoul, registered out of Saint John, N. B., docked at Souris yesterday afternoon, and at 3 o'clock loading operations commenced which carried on throughout the night until 4:30 the next morning. The ship, under command of Captain Romeo Bouchard, and carrying a crew of eight men, took on a cargo of 6680 one-hundred pound bags of Sebago seed potatoes for Charlestown, S. C.

The stevedore in charge of loading operations was Alex McCormack, while the loading was supervised by Russell Ching for Simmons and MacFarlane of Summerside. It is worthy of note that loading operations continued through the night with the temperature going as low as 12 below zero.

# Chilly On Plane When Heat Fails

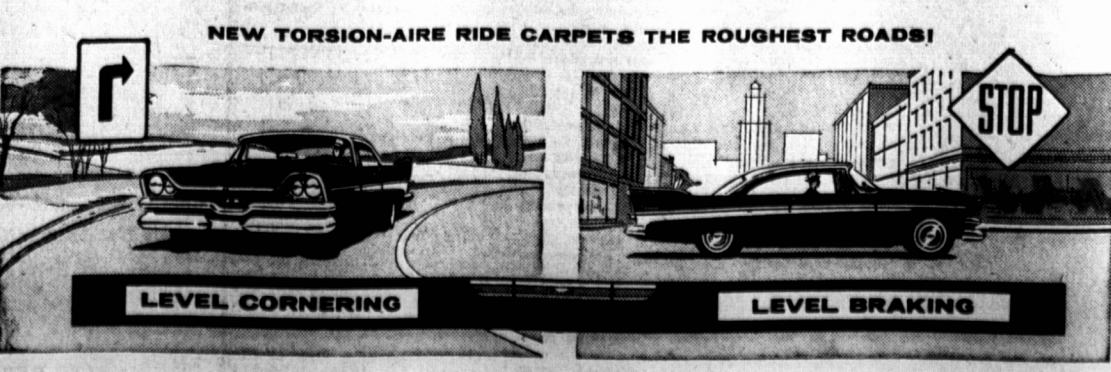
TORONTO (CP) — Thirteen Trans-Canada Air Lines passengers were up in the air over the cold Tuesday.

It was even worse up there—rarefied atmosphere sent the mercury down to 22 below zero aboard a DC-3 coming here from Winnipeg when its heating system failed between Sault Ste. Marie and Toronto. The passengers, all adults, bundled themselves in overcoats until the plane landed here. TC officials replaced the plane with another aircraft.

# NEW '57 DODGE shows em all the most glamorous styling on the road—starts new trend with new Shape of Motion



Dodge brings you a new kind of beauty in the low-price field—big and wide, long and low. (Imagine! Just 4½ feet from roof to road!) And it's brimful of delightful styling ideas fresh from tomorrow . . . new ideas like bold and rakish "twin-lights", racy upswept tail fins! There's even more inside room and road clearance than last year, too!



Dodge moves out front—with new fashion-first Flight-Sweep '57 styling . . . new road-smoothing Torsion-Aire Ride . . . new push-button triple-range Torque-Flite drive . . . new high-torque engines, V-8 or Six . . . new safety-sure Total-Contact brakes! Dodge is new, new, a thousand ways NEW!

**YOU GET MORE IN A**

The moment you touch the button and go, you know nothing's so modern and exciting as a '57 Dodge!

For what could be more modern than the new deep-cradled Torsion-Aire suspension that achieves the sweetest riding, steadiest cornering and surest road-feel you've ever experienced! Or more exciting than an automatic transmission that starts you on your way through the magic of fully proved, mechanically operated push-button controls!

Got a craving for spirited action? Then put your toe to that big new Dodge V-8. It's the biggest standard V-8 in its field—303 cubic inches big. The most powerful, too—215 horses strong.

So come on! Right NOW! Slip behind the wheel of a new '57 Dodge. Discover how exciting a car can really be.

You're always a step ahead in cars of The Forward Look

# DODGE

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GORDON MACRAE • SHIRLEY JONES  
FINAL TODAY SHOWS 3:30-7-9

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Because of the astounding climax, no one will be seated during the last 20 minutes of this picture

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