

**TOMORROW'S
TIDES—**
November 27, 1952
Standard Time
9:49 20.5 feet
22:35 18.2 feet
3:26 7.1 feet
16:21 5.0 feet

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WINTER—This deer in Waterton National Park near Alberta, evidently wasn't happy about being disturbed by a photographer as it enjoys the season's first snowfall. It was about to tell the intruder to leave. (CP Photo)

Projects Aided British Investment

By The Canadian Press
OTTAWA—Britain, though short on dollars, is \$120,000,000 on Canada's aluminum future.

Canadian aluminum industry have been kept a secret. There was only an announcement that Britain was earmarking \$40,000,000 for Canadian development. The full amount is three times higher.

Canada is Britain's biggest aluminum supplier and likely will remain so for some years, even though Britain is showing interest in an African Gold Coast development.

For 40 years Britain had plans to make Gold Coast one of the world's great aluminum producers. A London dispatch Tuesday said she may put the plan into effect next year.

Britain entered the Canadian development when Korea brought a critical shortage to the essential metal, used in aircraft production.

Money she has lent will be paid back in 20 years and during that time she will have first call on Canadian production.

OPTION ON KITIMAT
She has an option on the first 250,000 tons produced annually by company, either at Arvida or Kitimat. The option means she can forego the purchase, but she has made a definite commitment for that amount annually for the next two years.

In Montreal, Aluminum Industry Officials said the African Gold Coast aluminum project calls for an eventual production of about two-fifths the size of Kitimat's production target.

They noted the ultimate Gold Coast production aim is 210,000 tons a year while the monster Kitimat development aims at a capacity of 500,000 tons annually.

Officials of Alcan said their company has an interest in the African development.



In the hunt for oil, the surveyor comes first. Some search means walking knee-deep in snow covering the manner of surveyor Bill Kozma, who is locating the bulldozers which will blaze the trails for (CP PHOTO)

New Ship To Replace 'Prince Rupert'

Solon Low Hits at Coldwell

Charges 'Cesspool Methods' in B.C. Campaigning

OTTAWA — Solon Low, Social Credit leader, and M. J. Coldwell, CCF leader, clashed Tuesday in Commons over statements made during recent political campaigns in British Columbia.

Mr. Low charged the CCF leader with "sinking into a vile type of campaigning" that had no place in Canada. Mr. Coldwell, he said, was guilty of using "cesspool methods."

Mr. Coldwell offered to present proof of charges he had made in his British Columbia speeches. Speaker Ross Macdonald said rules would not permit Mr. Coldwell to reply at this time.

"I will do it on a future occasion," said Mr. Coldwell.

"We will be prepared to meet you head-on," retorted Mr. Low. Mr. Low said Mr. Coldwell was quoted as saying the new Social Credit B.C. cabinet was steeped in racial prejudice. He also was quoted as saying that the Social Credit movement through its leader Solon Low has displayed anti-Semitism and racial discrimination.

Mr. Coldwell interjected he had referred to the Social Credit movement and not to the B.C. government.

Mid-State Blizzards Claim Six

CHICAGO — Wind-whipped snow clamped a paralyzing grip over wide sections of the mid-western United States today, stranding travellers, closing schools, and blocking roads.

At least six deaths were attributed to storm conditions. Almost a foot of snow was recorded in some towns.

Kansas and Nebraska, where blizzard conditions prevailed in some areas, apparently felt the greatest impact.

Two Women In Ike's Cabinet

NEW YORK — President-elect Eisenhower has named two women to his cabinet.

Mrs. Oveta C. Hobby, Houston, Texas, was named head of the Federal Security Agency and Mrs. Iva Baker Priest, of Bountiful, Utah, was named treasurer of the United States.

Arthur Summerfield, chairman of the Republican National Committee, has been named as postmaster-general.



HEADS NAVY LEAGUE — C. Kirkland McLeod, 62, Montreal industrialist, has been elected president of the National Council, Navy League of Canada, at the annual meeting in Toronto. He succeeds David Gibson of Toronto. (CP Photo)

Escape Artist Nabbed After Citizen's Tip

VANCOUVER (CP)—A picture in a crime magazine led Tuesday to the arrest of Robert Carroll Walker, who escaped from an Oregon jail nearly five years ago while awaiting trial on an assault charge.

City police, accompanied by two FBI agents, nabbed Walker after getting a tip from an unidentified citizen.

Walker escaped from an Oregon city jail in January, 1948, after recapture following a previous escape. His first escape occurred en route to jail when he was in handcuffs.

LONDON — Five policemen were bitten by a stray Alsatian dog brought into the Waltham Green police station by a boy. The canine used its teeth on the sergeant, sub-sergeant and three constables as they tried to put it into a kennel.

DAILY NEWS FEATURE PRESENTS CAPITAL WRITER-'OTTAWA DIARY'

As Parliament gets underway at Ottawa, attention everywhere is focussed on the nation's capital. To keep its readers informed on the gossip, rumors, activities and personalities which make up the background of important national developments, the Daily News has arranged to carry "Ottawa Diary," a daily feature written by the well-known political correspondent, Norman M. MacLeod.

A member of the parliamentary press gallery since 1926, Mr. MacLeod has had close acquaintance with every prominent figure in Ottawa since the time of Arthur Meighen. His political contacts cut through party lines.

Mr. MacLeod is a member of the clubs where many of the country's affairs are settled. He has travelled abroad with government leaders to attend such meetings as the Empire and economic conferences in London, and the Foreign Ministers' and NATO conferences in London, Paris and Brussels.

UN meetings in San Francisco and New York are also recorded among his assignments, as well as a trip to the Korean war.

His "Ottawa Diary" starts on page 2 of the Daily News today.

Dead Named In Comox Plane Crash

COMOX, B.C. — The grim job of searching for the dead continues at the scene of crash of a Lancaster bomber.

Eight men—seven RCAF personnel and one civilian—died late Monday as the big plane crashed in a swamp near here.

FO. R. F. Johnson, Springhill, N.S., pilot, and FO. M. J. Wright of Vancouver, co-pilot, were thrown clear. They were reported in "fairly good" condition in hospital here.

The dead:
FO. J. N. Doucette, St. Louis, P.E.I.; Ft.-Sgt. J. L. L. Maynard, Courtenay, B.C.; Cpl. G. E. Fletcher, Courtenay, B.C.; Cpl. F. A. McKay, Comox, B.C.; AC2 V. J. McIntyre, Glace Bay, N.S.; AC2 R. H. Walsh, Regina, AC2 W. F. Smith, Lunenburg, N.S.; M. G. MacLeod, Vancouver and Chilliwack, B.C.

Settlement Or Trouble Outlook Soon

OTTAWA (CP)—The outlook in Canada's big railways wage dispute—a settlement or trouble on the rails—should become clearer in the next few days.

Deadlocked for four months on wages and other issues, the railways and unions representing 250,000 non-operating employees will receive this week the report of a Federal conciliation board dealing with differences.

The recommendations are expected to be made public Thursday. It is expected they will be placed before a meeting of the general negotiating committee of 17 rail unions convening in Montreal the same day.



MOST VALUABLE—Vince Mazza, powerful 27-year-old middle for Hamilton Tiger-Cats has been awarded the Jeff Russell trophy as most valuable and sportsmanlike player in the Big Four football union. He joined the Ti-Cats in 1950 after Buffalo Bills folded. He started as left outside with the Bengals, won a spot on the Canadian Press 1951 all-star team and this year switched to the middle spot. (CP Photo)



PROMOTES FRENCH — Rev. Paul Emile Gosselin, 42, is secretary of "Le Conseil re la vie francophone en Amerique." The Council of French Life in America. It is an organization devoted to the survival of French culture in America. Abbe Gosselin, ordained in 1934, was the leading organizer of the third French-language congress in Quebec last June. He also is professor of philosophy at Laval University and chaplain of a half-dozen Roman Catholic groups in Quebec. (CP Photo)

Fire Razes Prairie Town

MEADOW LAKE, Sask. — Fire gutted seven business places Tuesday on the main street in this town, 160 miles northwest of Saskatoon. Damage was estimated at \$200,000.

The blaze broke out in Pearson's "Five-to-a-Dollar" store. A strong wind spread the flames to other buildings.

New Vessel Planned To Sail in 1955

The Canadian National Steamship Prince Rupert sailed into harbor here today just as she has done for nearly 40 years, but almost at the same time that she docked it was announced that her days in west coast passenger service are numbered.

B.C. Premier Assures New Election Soon

VICTORIA (CP)—Premier W. A. C. Bennett, flushed with the success of his political gamble in Columbia and Similkameen by-elections, Tuesday reassured British Columbians there will be another general election next year.

The Premier said it must be clear to everyone that a 19-man government cut to 18 by appointment of a speaker, "does not fit in with our responsible type of Democratic government."

He said the date of an election will depend a lot on the coming session.

The WEATHERMAN Says

A ridge of high pressure continues to dominate the weather picture over the province. Low cloud and fog cover most of the coast. In the interior there is cloud and very light snow in the northern section, while in the southern sections it will be sunny in some areas today.

Cooler air is spreading down the lower Fraser Valley and is clearing much of the fog from that area. Temperatures will be slightly colder in most regions tonight.

Forecast

Cloudy today and Thursday, occasional light drizzle tonight. Little change in temperature. Light wind. Low tonight and high Thursday at Port Hardy 37 and 42; Sandspit 40 and 45; Prince Rupert 35 and 40.

LONDON — British coins, particularly two-shilling pieces and half-crowns, are heavier than those of Canada and the United States. As a result Canadian and American servicemen in Britain are said to be finding that money literally makes holes in their pockets.

Depends on Session

The CN is going to get a new ship to replace the Prince Rupert. It was announced by Donald Gordon, chairman and president, in Montreal today.

Mr. Gordon said in a special dispatch to the Daily News that "following a careful appraisal of the shipping situation on the coast and the industrial development, actual and potential, centering upon B.C., this decision has been reached."

No definite information governing the size or cost of the new steamship will be available until discussions of plans are completed, but "all possible haste" will be made to have the new ship in service by summer of 1955.

The company is thinking in terms of a vessel generally comparable in size with the Prince Rupert but of modern design, said Mr. Gordon.

The Prince Rupert, which has been in several collisions during its long time of service on the coast has had no very serious accidents. Many passengers sailing in and out of this port have a fondness for the old ship which will never be forgotten.

C. A. Berner, superintendent of the CNR here, said:

"I came up on her as a boy, in 1914. She's carried a lot of passengers since then."

The other CN steamship plying the coast is the Prince George, now undergoing repairs following a grounding near Ripple Rock last month.

Girl Strangles Baby With Cloth in Mouth

SEATTLE — A high school baby sitter, who said she lost her temper when a four months old boy she was tending wouldn't stop crying, strangled him Tuesday night with a cloth she stuffed in his mouth, police said.

The girl, Ellen Noreen Fern, 15, was caring for Garry Payne, son of her next door neighbors. "He wouldn't be quiet," the girl told police.

"I lost my temper, grabbed a striped cloth, and shoved the rag down his throat. He shut up all of a sudden."

The girl is held by police as a "delinquent."



MAKE EARTHQUAKE—Modern methods of searching for oil use highly-developed technical skills. These workmen are members of a seismic party. They are tamping down a charge of dynamite placed in a hole, to create a miniature, artificial earthquake. The vibrations caused in the earth are recorded on sensitized paper by instruments on a nearby truck. A study of these reveals whether the area is promising. (CP Photo)

Fishing for Oil in Underground Seas

(Millions of years ago the western plains were covered by an ocean. The sea and the organisms in it are the source of today's rich oil fields. This story tells how oil was formed and describes the underground structure in which oil is found.—Editor)

By FORBES RHUBE
Canadian Press Business Editor

The oil driller is a fisherman. He fishes in old seas which, in North America, once covered most of the continent from the Gulf of Mexico to the Arctic Ocean.

These old seas came and went—perhaps as many as 15 times—and formed many shorelines. They did what today's seas do: built up reefs along their shores and silt fell from the water.

In those seas were tiny living organisms of many kinds. These lived and died in countless billions, and the silt covered them.

The silt fell until it was a mile or more deep. The newer silt pressed on the older silt, and

the older silt, under the weight, turned into stone.

The bodies of the tiny organisms, mixed in the silt, gave off microscopic bits of oil.

In the aggregate, they gave off a lot of oil.

The oil tended to rise to the surface. Much of it was dispersed and lost. Here and there, however, it was trapped by stone.

In Western Canada, in many places, it found its way into limestone formed, under pressure, from coral reefs.

The coral reefs were formed just as coral reefs are being formed today—by skeletons of creatures that have died. It is called Devonian limestone and may be about 35,000,000 years old.

Above the limestone, in many instances, was an impervious shale and when the oil entered the limestone, the shale prevented it from getting out.

It is still there. And that's what makes an oil field such as Alberta's Leduc and Red-

water, near Edmonton.

Canada's first big oilfield, Turner Valley near Calgary, is in limestone of another period. It is called the Madison and is as much as two miles down.

There is more than oil in the limestone. There is gas, which also comes from the bodies of the ancient organisms; and there is salt water, probably remaining from the old seas.

Gas is the lightest of the three and ordinarily rises to the top, with oil below it, and water below the oil.

However, sometimes the gas and oil are mixed together. Sometimes there is gas and no oil. Sometimes there is only water. Sometimes there is nothing.

At Leduc the Devonian limestone reef is 800 to 1,000 feet thick. In the top of the limestone is a maximum of 240 feet of gas, and below that, only 38 feet of oil. The rest is water.

Golden Spike has 600 feet of reef and all of it has oil; but the field covers a much smaller

area than Leduc.

Other formations are widespread with dome-like tops. In such cases the water, being lower, extends over a wider area. The driller may hit into the side of the formation where there is only water. Several western disappointments now are known to have been such near-misses. Later, oil was found nearby.

Sometimes oil occurrences are called oil pools and people may get the idea that oil is found in big underground caverns. This is not so. "Pool," as applied to oil underground, is not the same as "pool" as applied on the surface.

The oil is held in the small holes, or pores, of the stone which has trapped it. In Devonian limestone these spaces may range from microscopic to the size of your thumb. In sandstone, in which some western oil is found, the spaces can scarcely be seen.

When I expressed wonder that (Continued on page 6)