

Shellegraph

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CANADA'S TAR SANDS - WHERE THEY ARE, WHAT THEY CONTAIN

Canada's vast tar sands contain as much oil as all the reserves in the entire Middle East and Shell plans to develop a portion of the deposits with a two-pronged effort designed to produce synthetic crude both with known technology and with technology that is still being developed.

Operating under a 50/50 joint agreement, Shell Explorer (a subsidiary of Shell Oil Company), and Shell Canada Limited are pursuing plans calling for surface and sub-surface recovery operations in two of the three major tar sands deposits, all located north of Edmonton in Alberta.

Of the three, Athabasca is by far the largest and most publicized, containing about two-thirds of potential reserves. It is the site of current mining operations being carried out by Great Canadian Oil Sands Ltd., now the area's only tar sands producer.

A distinguishing feature of Athabasca is that about 10 percent of the tar-bearing sands are covered with less than 150 feet of overburden and thus can be surface mined from open pits with proven technology. The remaining 90 percent, and all of the tar sands deposits at Peace River and Cold Lake, are too deep for surface mining and the oil must be recovered underground by in situ methods using new technology.

Another company, Syncrude Canada Ltd., is working toward having a 125,000 B/D plant in operation by 1978. Shell has applied for a permit to produce 100,000 B/D of hydrocarbons from the Athabasca tar sands by 1980, a venture that will cost an estimated \$1 billion. Drilling to date has defined some three billion barrels of reserves that can be surface mined from Shell's mining lease, which would support three 100,000 B/D projects for about 25 years.

Most of Shell's in situ de-

velopment work - which may be the most important in the long run - has been concentrated on acreage at Peace River, where a steam injection test is being conducted at a cost of more than \$1 million. If results are encouraging, a pilot project costing about \$50 million over a 4- to 5-year period and involving about 40 production, injection and observation wells will be launched.

Current plans are to use the experience gained from

operation of the pilot project to provide the basis for design and economic evaluation of the pilot project of a full-scale project which could be put into operation, at the earliest, in 1983.

The Alberta Energy Resources Conservation Board considers the proved remaining hydrocarbons recoverable from Athabasca surface mining operations to be 26.5 billion barrels with an additional 225 billion barrels
(Continued on page 3)

SHELL PHOTOGRAPHER SPEAKS AT MEETING

Gordon W. Shafer, research photographer for Shell Development Company, will be a speaker at the Biennial Educational Conference (BEECON) for professional photographers, to be held March 9-12, in Dallas.

Mr. Shafer, who resides at 2902 Jana Lane, Pasadena, will present a program titled "Tips, Tools and Techniques" on Monday, March 11.

The conference and trade show is sponsored by the Professional Photographers of America, Inc. (PP of A) and its regional affiliate, the Southwestern Photographers Association, Inc. (SWPA). Nearly 3,000 members of the two organizations are expected to attend the four-day meeting designed to improve business as well as photographic skills. Conference sessions and the trade show will be in the Fairmont Hotel.

The PP of A is the oldest and largest association of professional photographers



in the world, with headquarters in Des Plaines, Illinois. The organization provides educational services and establishes standards of professional performance for its more than 15,000 members and 150 local, state and regional affiliates.

NEW FIREARMS MEAN PARENTAL RESPONSIBILITY

When a father buys his child a firearm, his moral responsibilities go beyond showing the child how to load it and pull the trigger, according to Texas Parks and Wildlife Department hunting safety officials.

"I'm sure plenty of kids got their first .22 rifle

for Christmas," according to T. D. Carroll, head of the department's hunter safety program. "I hope they got some instruction in safety to go with it."

Carroll, who coordinates a statewide hunter safety program for the department, says
(Continued on page 2)

TRAINING CLASSES BEING HELD FOR ELECTRICIANS AND CARPENTERS



The Electrician's Training Class currently being held poses outside their training room. Trainees pictured are (l-r, kneeling) C. E. Miller and D. G. Alexander; in the first standing row, we find J.D. Kirkland, L. G. Herring, A. King, J. R. Beaty, R. W. Russ; while the back row consists of J. E. Smith, J. M. Hall (lower), David Boatman, Johnny



Gauntt, R. L. Mullins, and J. E. Lat. Absent: D. W. Moore, who was on duty. The smaller Carpenter's Training Class consists of A. R. Comeaux, Don E. and John Carlson (standing). Absent from the photograph was David Ellis.

DAVID VINSON, 59, DIES SUNDAY, FEBRUARY 17



David C. Vinson, 59, of 8102 Talton died Sunday, February 17. He was employed as a medium equipment operator, Automotive, at the time of his retirement in October 1964.

He is survived by three sons and a daughter.

Burial will be in Corrigan, Texas.



"You want a good reason why you should wear safety shoes...? Well, just don't drop your tool box!"

NEW FIREARMS MEAN PARENTAL RESPONSIBILITY (Continued from page 1)

it is a mistake for parents to assume children will instinctively treat firearms safely.

"It takes only one instance of poor judgment for disaster to strike," he said. According to Carroll, a disproportionate number of firearm accidents involve children 12 years old or younger. "These children have neither the judgment nor the self-discipline to handle firearms safely with no supervision."

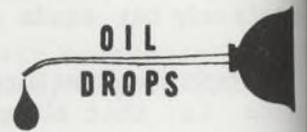
As a result, some of these children will shoot themselves or someone else, usually out of sheer carelessness or ignorance of basic firearms safety rules.

And although it is the child who pulls the trigger, the parent who makes that trigger available is to blame because although a firearm is designed for recreational sport or pleasure, it is still a deadly weapon which can cause injury or death.

For parents who want their children to receive top-notch firearm training, the Parks and Wildlife Department administers a voluntary hunter safety program. The course, which is taught by qualified volunteer instructors, includes segments on care of firearms, proper firearm handling, firearm safety and

hunting safety.

A call to the local game warden is the best way to find out about the next hunter safety course in your area.



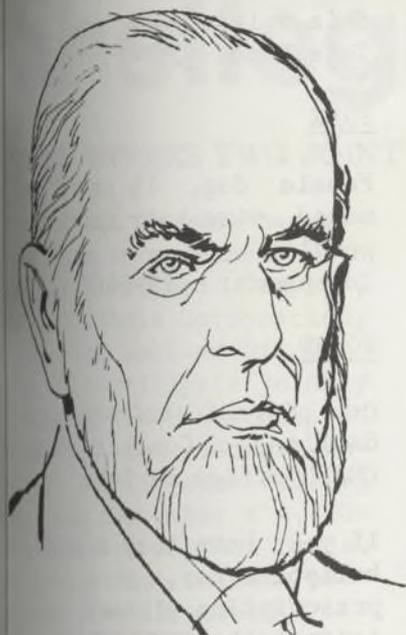
Have you ever heard of one being given a ticket for speeding on a 10-speed bicycle? Well, Rande Rothman, head mail clerk, Treasury, related the story of her brother, Howard, and his trouble with the law. He had received tickets for speeding previously - all while driving an automobile! So, he decided to trade his car in for a new mode of transportation.

The result was a shiny 10-speed to get him to work from his job. Apparently, he couldn't keep from bearing down hard on the pedals. He was clocked going 10 miles over the speed limit on a city street in Dallas.

Sooner or later he will have his right to pedal his bicycle. One wonders how fast he will

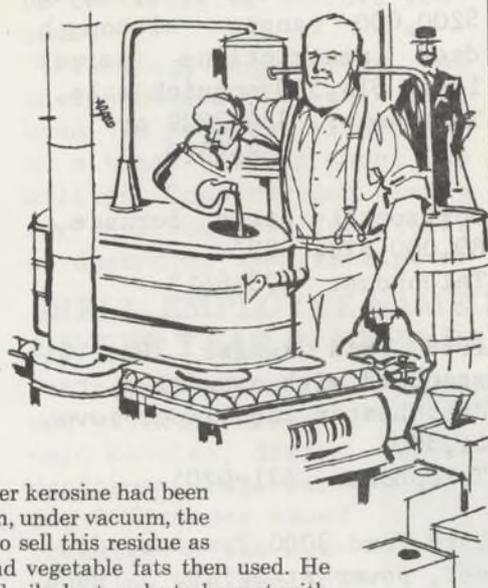
**DEADLINE FOR ADS
9 AM ON WEDNESDAY**

MAN WITH AN IDEA



Hiram B. Everest,

a Rochester, N. Y., grocer who became the pioneer marketer of petroleum lubricants, was one of the many men whose ideas sparked oil's first century of progress.

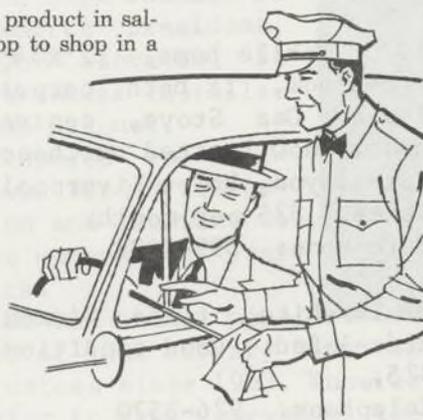


In 1866, Everest discovered that, after kerosine had been removed from petroleum by distillation, under vacuum, the residue was unscorched. He decided to sell this residue as a lubricant in place of the animal and vegetable fats then used. He invested all his money in a shed-sized oil plant, only to be met with scorn by investors and users of lubricants.

Down to his last dollar, he packaged his product in salvaged oyster cans, and peddled it from shop to shop in a hand cart.

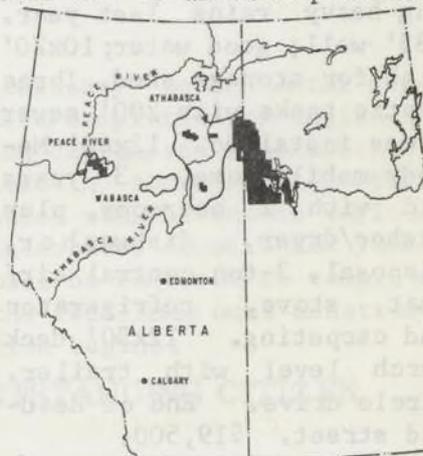
Machinists and harness makers one by one agreed to sample Everest's product. One by one, they were convinced.

Since 1859, when the first oil well was drilled, men with ideas have worked to provide Americans with this source of lubricants and energy - energy that has meant more human progress in the last century than in the previous 6,000 years.



CANADA'S TAR SANDS (Continued from page 1)

being potentially recoverable by *in situ* processes at Athabasca, Peace River and Cold Lake. Recovering hydrocarbons from the tar sands will not be without problems



and difficulties, of course. In addition to the need to develop the technology, there is the weather - among other things - to contend with.

Heavy equipment tends to bog down in the soft surface (called muskeg) during the summertime and during the winter sub-zero temperatures are often encountered, taxing the endurance of both men and machines.

Consequently, there is a big difference in cost, effort and economics between simply drilling and turning the valves on perhaps a dozen or so wells in the Middle East - and trying to wrest 100,000 B/D from the tar sands of Athabasca.

THE FRUITS OF RETIREMENT AS VIEWED BY ONE-IN-THE-KNOW

My retirement from the Refinery Laboratory in 1960, although early, has probably added years to my life. At least, it did add more years of satisfactory living. No rocking chair is going to get me!

There have been a few times when the effects of having those operations on my legs for varicose has stabbed me with a pain or two, but thank goodness, I got off of my feet early enough to enjoy life. Both of us, Mrs. Gray and myself, are in pretty good health.

An early retirement has really let us do a lot of traveling - seven weeks in Hawaii, three Caribbean cruises of 10-14 days, trips to the East including a trip to Prince Edward Island, trips

to the West and Canada, plus a ship trip up to Skyway, Alaska, and a train ride to Whitehorse. Most of our travels have been in an airstream trailer and except for this past year, we have been away from home from 8-9 months out of each year.

We have spent six summers in Newport, Oregon, some for 3-5 months duration during the years 1967 through 1972.

We did want to go to some parts of Europe, but we have decided to let those trips slide for awhile until the mess over there is corrected and things become normal again. We may just take a world-wide cruise.

Due to some of that gasoline shortage last year, we did limit our out-of-state trip to Bozeman, Montana.

We ran across places in Colorado, Nebraska, Kansas and the Panhandle of Texas where stations were closed or there was a little difficulty in obtaining gasoline. But, at only one place, Garden City, Kansas, were we limited to five gallons of motor fuel - and that was because of a highway construction project that had blocked off almost all service stations, and we happened to drive into the last one open south of town.

We have decided to adopt a wait-and-see attitude about this gasoline matter.

I haven't been to any of the Ten-and-Over parties because we have not been home.

But, someday, I do hope to be able to see all of you.

- Hugh J. Gray,
Retired shiftforeman

CLASSIFIEDS

FOR SALE

2½ acres heavily wooded but underbrush cleared land in New Caney, Texas, between Porter and Cleveland, off Hwy. 59. Did not flood during heavy rains last year. 185' well; good water; 10x20' slab for storage shed. Three septic tanks with 200' sewer lines installed. 12x60' Melody mobile home, 3 years old with 2 bedrooms, plus washer/dryer, dishwasher, disposal, 3-ton central air/heat, stove, refrigerator and carpeting. 12x30' deck porch level with trailer. Circle drive. End of dead-end street. \$19,500. Telephone: 339-1656

Five party toy poodles, black/white. No papers. \$25 male; \$20 female. Telephone: 339-1656

1971 Kawasaki 500, 3 cylinder, good tires. Like new. \$600. Telephone: 926-2997

Kenmore electric clothes dryer. Old, but works. \$15. Telephone: 485-3064 after 6

Lot 70'x140' 6 miles south of Conroe. Telephone: 692-1698

12'x50' mobile home NW Houston Adult Park. Telephone: 692-1698

3-1½-2 house with detached garage & double carport; cedar fence, fruit trees, deadend street, close to schools, excellent condition. Equity, VA, Conventional. 1116 Pearl, Deer Park. Telephone: 479-5211

1942 Ford Custom Coupe. Make offer. Telephone: 473-2512

Hot cycle; child's motorcycle toy. Seldom used. Cost \$11; will sell for \$7. Telephone: 487-0361

Five piece chrome dinette. Good condition. \$10. Telephone: 926-8570

17" lavatory, complete with chrome faucets and built-in stopper. Also chrome towel bars for lavatory. \$12. One small boys bicycle. \$6. Telephone: 472-7565

Beautiful wooded acre lot on Clear Creek in Friendswood. Prime location in Quaker's Landing. Concrete streets, curbs, gutters, underground utilities and other amenities insure protection of property value. Lot and surrounding residences will support residences in the \$100,000 to \$200,000 range, although deed restrictions permit less. \$16,500 for quick sale. Telephone: 334-2229 or 488-1310

Horizontal attic furnace. 80,000 BTU. \$35. Telephone: 473-6613

1969 Ford Ranger 302, V8, standard with overdrive, radio, heater and camper cover. \$1,300. Telephone: 471-0705

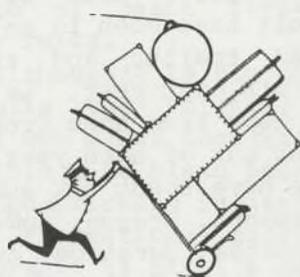
1969 Ford 3000 Tractor, diesel, power steering, good tires. Telephone: 393-1089

1970 mobile home, 12'x54', 2 bedroom, 1½ bath, carpet, Tappan Gas Stove, central heat. Now located on Chocolate Bayou, below Liverpool, Texas. \$25 per month. Telephone: 393-1089

Black/white tweed Simmons Hide-A-Bed. Good condition. \$25. Telephone: 926-8570

New colt 38 special revolver with leather holster. \$90. Telephone: 479-5009

AN ACCIDENT IN THE MAKING . . .



Work Safely. Your well-being depends upon YOU.

WANTED TO BUY

Transaxle for 1963 Karma Ghia Volkswagen. Telephone: 393-1089

FREE

Female dog, 1½ years old, mixed wire-hair terrier/poodle. Telephone: 472-8667

FOUND

One pierced earring, silver, dangling. Contact SHELLEGRAPH office on 541.

If you have lost a watch, ballpoint pen, or a pair of prescription glasses, please contact the SHELLEGRAPH office on 541. Some of the items have been here several months.

PERSONAL

I shall miss all the years I have worked with these six of you. I want to express my appreciation for my retirement party and the exercise. I hope to keep in shape by using it daily. - C. W. (Speedy)

FAREWELL PARTY HELD



Margie Samford proudly displays the watch given to her upon her transfer to ITC Building. Barbara Moon, left, and McClure look on.

SHELLEGRAPH

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Mrs. Dotti West - Editor