

## Lignite-Based Fertilizer Developed in North Dakota

Fargo, N. D. — (UPI) — A team of scientists here has reported the development of a lignite-based fertilizer which they said was equal to any commercial product now on the market.

Prof. Donald Schwartz, head of the team of chemists at North Dakota State University, said the new process will utilize millions of tons of lignite (coal) scattered about the state and provide an economic as well as agricultural boost to North Dakota.

The process was developed over a three-year span at the school.

"The process makes lignite one of the cheapest sources of fertilizer in the country. And much less work is involved than with other methods," Schwartz said.

With funds from the Baroid division of the National Lead corp., Houston, Tex., and the National Science foundation, Schwartz and his team began their research.

**Earlier Experiment**

Baroid had already experimented with lignite, producing a drilling "mud," a dark liquid that increases flow while oil is drilled and prevents breakage of valuable drill bits.

Nitrogen deficient soil was taken from Richland county and placed in flower pots. In it was planted sudan grass, because this particular legume grows at a very rapid rate.

The grass and soil were treated with the best-accepted commercial fertilizer for non-

grain crops, urea formaldehyde, ordinary lignite, the chemically treated lignite, and no additive at all.

Growth results after three years showed that boosted lignite fertilizer equalled the urea-formaldehyde solution and sometimes surpassed it.

Schwartz said the process, which is being patented, increased the nitrogen content in the lignite about 14 times and made it available for release to the soil.

Schwartz said, "chemically treated lignite can be used in

large doses without burning the crops.

"Ordinary fertilizer must be used slowly — several times a year — to prevent burning. Our way, nitrogen is released slowly and has a long-period effect."

**URGES PAY RAISES**

Washington — (UPI) — Defense Secretary Robert S. McNamara appealed Wednesday to the Senate to restore pay raises for junior military officers to induce more of them to stay in the service.

## \$1 Billion Cut in Military Spending For Year Revealed

Washington — (UPI) — Defense Secretary Robert S. McNamara reported to President Kennedy today that \$1 billion was chopped from military spending for supplies and maintenance during the year ended July 1.

Raising his sights, McNamara said he expected economies totaling \$4 billion annually in purchases of military supplies and spare parts and in operating costs within the next five years.

The actual and prospective savings were one-third greater than the Pentagon chief estimated would be possible at the start of a cost reduction program in 1962. But they only partly offset increased combat outlays which have pushed the defense budget up from \$45 to \$51 billion a year since McNamara took office.

McNamara, in a long memorandum addressed to the President, said \$700 million was saved in purchases alone during the last 12 months.

**Largest Saving**

"The largest part of this reduction occurred in spare parts for aircraft and missiles," he said. "The Air Force

has been able to reduce repair cycle time on high cost items from 90 to 45 days. The Navy reduced stocks of high demand spare parts on aircraft carriers by 50 per cent."

McNamara cited a 100 per cent increase in nuclear warheads in the strategic alert forces and a 60 per cent increase in U.S. nuclear forces in Europe as evidence that economies had not affected combat strength.

**Dollar-Saving Projects**

"Actions now planned for fiscal years 1964 and 1965 will bring the estimated annual savings, to be realized by fiscal year 1967, to almost \$4 billion," he said.

McNamara said the biggest

reductions last year were under a program headed "Buy-Hatten, Staff Plan To Attend Course"

Jackson County Assessor Thad Hatten and members of his staff will spend Monday in Eugene attending a school on the new tax laws enacted during the recent legislative session.

Attending the school sponsored by the state tax commission will be Kay Sandvig, Opal McCarty, Foster White, Ray Barker and Hatten. Hatten said there are 48 new laws affecting taxation.

ing only what we need," but he also listed these dollar-savings projects:

—Increased use of excess inventories. He said \$1.2 billion worth of equipment taken from excess stocks was made serviceable after overhaul or repair.

—Shifting to competitive buying. McNamara said this usually reduces the cost of items by 25 per cent.

—Terminating unnecessary operations. Sale of 265,905 acres of land and 54 plants eliminated operating expenses that in a full year would total \$316 million.

Sioux Indian Popular as Photo Model

Keystone, S.D. — (UPI) — Ben Black Elk, full-blooded Oglala Sioux Indian, probably is as familiar to American tourists as the Indian-head nickel and beyond a doubt the most photographed Indian in the nation.

With special permission from the National Park Service, Black Elk poses for pictures at the base of Mount Rushmore in Western South Dakota. During peak summer months, he is photographed as often as 5,000 times a day.

Mount Rushmore is famous for the faces of four Presidents — Washington, Jefferson, Teddy Roosevelt and Lincoln — chiseled in the mountain side.

During the past 16 years Black Elk has been an integral part of the gigantic sculpture and often has been called the "fifth face on the mountain." His photograph has been taken with everything from a box camera to expensive imports, and amateur movie cameras to the giant television cameras used in the first U.S. Telstar broadcast.

Black Elk's regular dress at Mount Rushmore is that of a brave — he wears the chief headdress only when posing for special pictures, or at the request of a tourist.

Born in 1869 at Manderson, a small community on the Pine Ridge Indian Reservation, he is the sixth in line to carry the name Black Elk. His father and the famous chief Crazy Horse were first cousins. Both participated in the Battle of the Little Big Horn against General Custer. Won Awards

Prior to his work in tourist business Black Elk was a successful rancher in western South Dakota and won several awards for his crops and livestock. He still has his ranch and some cattle, but now spends the summer months at Mount Rushmore and travels with his wife, Pretty Leaf, on personal appearances during winter months.

During the initial Telstar broadcast — sent from the United States to 19 European countries — Black Elk's picture was beamed across the continent, then throughout the United States in a later broadcast. He was the first human to appear on Telstar.

Another familiar face in the Black Elk family was Ben's uncle, Iron Tail. He posed as the Indian on the U.S. Indian-head nickel.

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**HEIN'S Cream Honey** .....10 Oz. Cr. **29¢**

**Local Man Sentenced To County Jail Term**

William Henry Roberts, 62, of 16½ Misticoe st., Medford, was sentenced to one year in the county jail and fined \$500 on a charge of exposure when he appeared in Jackson county district court yesterday.

A district court jury had found him guilty on July 3. The probation of Donald Wayne Wycoff, 30, 945 South Riverside ave., was revoked, on a charge of obtaining property by false pretenses. Originally, he was given a one-year suspended county jail sentence for drawing check with insufficient funds in the bank to pay.

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