

PHOSPHATE ROCK PLENTIFUL IN WEST

Fertilizer Enough to Last for Generations Found in Four States.

IDAHO FIELD IMPORTANT

Discoveries Also Made in Montana Especially Significant Because of Proximity to Supply of Acid for Treatment.

OREGONIAN NEWS BUREAU, Washington, Nov. 9.—More than 2,000,000,000 tons of phosphate rock have been located and withdrawn by the United States Geological Survey in Southern Idaho and Montana, and Northern Utah and Wyoming—enough phosphate to supply the American fertilizer market for generations to come. This rock, much of which has lain exposed on cattle ranges since the advent of the white man, was never recognized until two or three years ago, when a Government geologist chanced to stop and examine a boulder on which he was sitting. Since that time, phosphate rock to the extent of 2,000,000,000 tons has been located, with indications that as much more ultimately will be found in the surrounding country.

The discoveries and prospects thus far made have led the Geological Survey to the conclusion that in the four states named probably lies the greatest phosphate deposit in the United States—deposits greater and more valuable than those of South Carolina, Florida and Tennessee, which have heretofore been supplying the American market of the states where it was made.

Idaho Field Extensive.
In the Idaho field estimates have been made of high-grade phosphate rock in two townships, based on examination of the outcrops and in no township was there found to be less than approximately 50,000,000 tons of high-grade phosphate rock, containing for the most part from 50 to 82 per cent phosphoric acid. Phosphate rock containing 60 to 85 per cent phosphoric acid is generally considered high grade. One of the townships examined contains an estimated 325,000,000 tons of phosphate rock, the net result of the survey work showing an approximate tonnage of 2,000,000,000 long tons with 70 per cent phosphoric acid.

The first discovery of these beds was in Wyoming, but last year an outcrop was found in Montana, 60 miles further north, and the geologists believe that workable deposits exist in many adjoining places. The withdrawal aggregate 24,000 acres in that state. Near Malrose, Silver Bow County, the beds are six to eight feet thick and contain 75 per cent phosphoric acid. A six-foot bed contains about 21,000 tons to the acre.

Proximity to Smelters Important.
"One of the most important considerations in connection with the discovery of phosphate rock in Western Montana," says Hoyt S. Gale, one of the geologists, "is its significance as to the probable extent of the phosphate fields, for it now appears probable that similar deposits may extend over a large part of Western Montana. Their nearness to the large copper smelters is important, for these smelters produce great quantities of sulphuric acid and sulphurous acid fumes which are usually allowed to go to waste through the smokestack of the plant. Reduction of phosphate rock by means of sulphuric acid appears to offer what is perhaps the largest commercial use for these waste products of the smelters." Mr. Gale quotes a report showing the daily loss at the Anaconda smelter alone of about 3500 tons of sulphuric acid.

Mr. Gale suggests that a great saving in freight might be made by concentrating three tons of the rock into one.

Elliot Blackwelder found large deposits of low-grade phosphate rock in the Snake River Canyon in Wyoming, one of these being 40 feet thick.

MISS FELT TO BE BRIDE

Wedding December 2 Interests Society in Two Cities.
LOS ANGELES, Nov. 9.—(Special.)—Los Angeles society is much interested in the news of the approaching wedding of Miss Gladys Felt, sister of Mrs. Santerson Reed, of Portland, Or., to Adolph H. Koebig, Jr., son of Mr. and Mrs. Adolph H. Koebig, of 2112 Hobart boulevard, Los Angeles, Saturday, December 2, in Trinity Episcopal Church, Portland.

It is announced here that the couple will go to Honolulu for their wedding trip and later will come to Los Angeles and take up temporary residence with the parents of the bridegroom. Mr. and Mrs. Koebig will give a large reception for them about the middle of January.

Miss Felt is well known in Los Angeles, where she has made her home for several years. She was graduated from the Girls' Collegiate School and then went abroad to study music. Mr. Koebig is in business with his father in Los Angeles.

PRICE OF SUGAR DECLINES

New Crops Become Factors and Buyers Await Further Drop.
NEW YORK, Nov. 9.—Owing to increasing competition of new crop supplies, the sugar market showed continued weakness and further declines were reported today. The price of refined sugar was marked down ten points to the basis of 8.30 cents a pound for fine granulated, making a decline of nearly 14 cents a pound from the high record recently noted.

Raw sugars also were unsettled and lower, with the grade known as Cuban centrifugal declining to 8.12 cents, compared with 8.97 1/2 cents at the height of the bull movement. The new crop of Louisiana cane sugar as well as the domestic beet sugar crop is now reaching the market. Local merchants reported that the market around today's prices was nominal, with buyers holding off for further concessions.

UMATILLA WHEAT GOES

More Than Three-quarters of Crop Sold, Is Estimate.
PENDLETON, Or., Nov. 9.—(Special.)—From 85 to 90 per cent of the 1911 wheat crop in Umatilla County has

passed from the hands of the grower, according to estimates made by local grain buyers. A little more than half of the season's output has been shipped to tide-water, according to these men and at the present rate of shipment the warehouses of the county will be practically empty by December 1. Although the car shortage has been acute in some parts of Eastern Oregon for the last several weeks, the railroad companies have pressed stock and flat cars into service with the result that the Umatilla County wheat has been moved almost as fast as it has been sold. No sales of importance have been made since the last few days, but it is expected that buying on a large scale will be resumed soon.

Some of the Pendleton handlers of grain express the opinion that the Portland and Puget Sound dealers are making a mistake in their calculations. They say the tide-water dealers are apparently acting on the assumption that the supply of wheat in the Inland Empire is yet large, whereas it is almost exhausted. They declare the percentage of the crop already shipped at this time is far greater than for many seasons.

INDIANS DEFEND DANCE

PLEA MADE FOR RETENTION OF TRIBAL CUSTOMS.

Measure of White Man's Liberty Unjustly Denied Them, Say Cheyennes and Kiowas.

OKLAHOMA CITY, Nov. 9.—Smarting under the threat of Indian agents at Segar to abolish the "willow" and the "gift" dances of the Cheyennes and Kiowas, a delegation of Indians headed by Chief Cloud and Chief Washee has successfully pleaded with Governor Bruce to intervene in their behalf at Washington.

The dances date from the time the Indian roamed the plains and the red men are loath to give them up. They decide the idea that the gatherings on occasions of this character lead to trouble and declare that a fair measure of the white man's liberty is being denied them.

The "willow" dance they said, is given when some brave decides to consecrate himself to certain duties to the tribe and it lasts about two days. Only the men participate, painting their bodies as in the ancient times. There is the usual feast at its conclusion.

The "gift" dance is participated in by several tribes and the squaws as well as the men take part. They are garbed in their best and the dance is very pretty custom, guests being loaded with presents as evidence of true Indian hospitality.

BIGAMIST BREAKS FAITH

Money Promised to One of Wives Taken From Safe Deposit Box.
SAN FRANCISCO, Nov. 9.—Andrew F. MacFarland, a wealthy insurance man, was held by Police Judge Deasey today in the Superior Court on the charge of grand larceny in having removed from a safe deposit box \$10,000 which he is said to have promised his wife, who was Miss Ethel Groom, of this city.

Shortly after the marriage, according to the testimony, MacFarland told his wife that he had another wife living at Colorado Springs. To avoid prosecution for bigamy, he proposed that they annul their marriage. He then said that he would obtain a divorce from his Colorado wife and return to marry Miss Groom.

At this time he placed the \$10,000 in the box for the use of his second wife. When she came to open it, however, she found the money gone. Detectives were put on the trail and MacFarland was found living with his first wife at Colorado Springs.

NECHACO VALLEY LANDS

Our lands are selling very rapidly. If you wish to get in on the ground floor, get in at once. Our terms are very easy. We also have a number of town lots in Fort George, right against the Indian reservation, which has been purchased by the Grand Trunk Pacific Railway, and will shortly be put on as their townsite, at a very high figure. Write us for particulars:

Nechaco Valley Land Co. Ltd.
620 BROUGHTON ST.
VICTORIA, B. C.
Reference:
The Union Bank of
Canada,
Victoria, B. C.

MORMONS IN MIX

Missionaries Say They Were Ordered to Force Way.

CHURCH LEADER DENIES IT

Two Are Placed Under Arrest in Chicago for Trying to Enter Home of Women Against Their Expressed Wish.

CHICAGO, Nov. 9.—Investigation by the State's Attorney of the management of the Mormon Church here probably will follow admission by two missionaries today that they were instructed to force their way into homes if necessary to get converts.

M. Thompson and Varion Keller were arrested when they tried to force entry into the home of Mrs. E. D. Delaney.

They testified that there are 200 Mormon missionaries at work in the United States, 18 being in Chicago.

SMITH DENIES ALLEGATION

Head of Mormons Says Missionaries Are Not Over-Boiled.

SALT LAKE CITY, Nov. 9.—When told of the arrest of the Mormon missionaries in Chicago today for forcing their way into the home of Mrs. E. D. Delaney, Joseph F. Smith, president of the Mormon Church, said:

"There is no truth in the allegation that our missionaries are instructed to force their way into homes or elsewhere. On the contrary, they are always cautioned not to intrude where they are not wanted and not to force their views upon anyone."

The name of Varion Keller is found upon the books of the church as a missionary, but Thompson is unknown here.

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Apple Retains Freshness Year.

VANCOUVER, Wash., Nov. 9.—(Special.)—An apple picked one year ago this month, but fresh and sound, is owned by J. L. Packard, a fruitgrower near Ridgefield. Mr. Packard picked a couple of apples this November from the same tree and the one picked last

\$10,000 Stock of Muslin Underwear Given Away



We need more room for our Coats and Suits—hence the Muslin Underwear must go. We will give it to our customers free absolutely. You can have the choice of our entire stock, which is the cleanest and most sanitary in Portland. Come and buy your Suit, Coat, Dress or Skirt from the Emporium and get your Muslin Underwear Free. As well as the usual prices prevailing, substantial reductions have been made throughout our stocks. Many friends ask how we can do it when our prices, as usual, are lower than elsewhere. Come and see.

With Suits at \$12.50 to \$45.00 We Give Free \$5.00 to \$10.00 Worth of Muslin Underwear. On Our Standard Line of Strictly-Tailored Navy Serge Suits We Give One-Half of Amount Stated Above. With Coats at \$15.00 to \$35.00 We Give Free \$2.50 to \$5.00 Worth of Muslin Underwear. With Dresses at \$14.75 to \$21.75 We Give Free \$2.50 to \$5.00 Worth of Muslin Underwear. With Skirts at \$5.00 to \$17.50 We Give Free \$1.50 to \$4.50 Worth of Muslin Underwear.

\$25 Navy Serge Suits \$19.50

Here's an offer worth investigating. These strictly tailored men's wear navy serge Suits, lined with Skinner satin, perfect fitting and highest class workmanship; a \$25.00 Suit and \$2.50 worth of muslin underwear free.

See These Suits at \$19.50



SPECIAL SALE OF MILLINERY

\$20 Satin Dresses \$13.50

The most fascinating style this season, made of satin duchess, with pretty "Corday" collars, of emerald green, king's blue and coronation.

A Splendid Bargain at \$13.50

Wiggle Your Third Finger

Yours truly

TRADE MARK

is serious and will give everyone who can do the "Third-finger Wiggle" a lunch next Monday — FREE. See this paper on Sunday — or ask your grocer

year, while not quite so plump, compares favorably with them.

Irrigation Season Ends.
KLAMATH FALLS, Or., Nov. 9.—The season for furnishing irrigation

water in the Klamath project is at an end and water is running slowly out of the main canal, the outlets having been slightly opened a week ago. The water goes down but a few inches a day, as the Government aims to keep the waste from backing up into Lost

River drain, which excavating machines are deepening about four feet, or three feet below its normal level.
India is garrisoned by 518,000 men, whose duty is to protect a territory of 1,770,000 square miles.