## GOLD MINES FEATURE DIVIDEND L

Accident May Revolutionize Total For State Lignite Coal Industry Month Hits

Steam Is Used As Hardener

A more or less acci-dental discovery by aci-entists seeking new sources for automobile gas may add many million dollars to the value of Montana's matural resources.

readwell Yukon and other great nining enterprises, received that V. L. Saunders medal for distinguished services in mining at the closing hanquet Among other recipients of this medal are resident Herbert Hoover, D. C. ackling, John Hays Hammond, W. Maclennas and D. W. Prunton.

Among those in attendance from the Northwest were F. M. Smith of Spokane and A. F. Bean-ies of Kellogs, director and sup-printendent respectively of the Stuker HIII smalter.

GROLOGICAL.

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### St. Joseph Lead To Mine Gold In Idaho

Equipment From Hughesville Lead Mine Is Installed In Sawtooths, Near Mountain Home

Typical of the changes in operating plans by many mining companies which are plans by many mining companies which are treatment for woody lignite, they found that a 24-hour bath accomplished the same results as 1,000,000 years of aging by Mother Nature in converting this fuel into a harder coal. Montana's 381 billion tons of lignite represent about one of lignite represent about one of lignite represent about one of the same results are not included in the list. If these could be included the total would be much greater. Dividend payments by American mining companies that now using this same equipment for gold mining in Idaho.

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This account of the changes in operating the corporations, leasing syndicates and individual leases that are not included in the list. If these could be included the total would be much greater. Dividend payments by American mining companies that make public their disburse-mother to shareholders totaled \$5,725,99 in January 1932, compared with \$15,825,760 in January, 1931. Typical of the changes in operating companies producing these me-

coal tar and industrial gas."

The steam bath, he asserted, apparently causes a molecular change and some physical structure alterations. Much of the volatile matter, which makes up a large part of hignite, is expelled.

STEAM NOW

(Continued from Machigan and manifeld procedures of malachite from Michigan and mine, Biabes, Aris, crystals of malachite from Machigan and mine, Biabes, Aris, crystals of solden calcite and galess from suits with the small laboratory Joplin, Mo.; and hative copper mills which are a matter of record."—"MENING JOURNAL."

Mother Nature in converting this five linto a harder coal.

Montana's 381 billion toon of lignite represent about one third of the nation's known supply. Lignite fields cover a huge area on the state's east of the Bookies.

The experiment still is in the laboratory stags, said James E. Loutit, consulting signifeer in charge of the processing plant mortheast of Spokaus, but some method may be discovered to produce as good a grade of coal from northwestern mines as that shipped from distant points.

A quarter of a ton of lignite is subjected to a 24-hour steam bath at a temperature of superiments, only five pounds of pressure in used.

Lignite is hard coal in the process of aging It is found in various stages from a combastile coal to a pealific substance in which the wood texture "is plainly visible Goologically speaking, these are new forms and contain much volation, or series and the results of the mass of the contrastion of the Repairs of the contrastion of the Repairs of the subject of the process of aging. It is found in various stages from a combastible coal to a pealific substance in which the wood texture "is plainly visible Goologically speaking, these are new forms and contain much volations of the masses of the Atlanta operation. When a should share in which the wood texture "is plainly visible Goologically speaking, these are new forms and contain much volations of the masses of the substance in which the wood texture "is plainly visible Goologically speaking, these are new forms and contain much volations of the masses of the substance in which the wood texture and therefore, are inferior as fuels.

"Lignite he fore its treatment with superheated steam," "In addition the contain and the contain much volations of the masses of the substant processing, there is a building up to approximately; and loft there for misses to the wood texture and therefore, are inferior as fuels.

The steam proposessing them are not present to the processing there is a building up to approximately and the contained that th

in one instance a semi-com-mercial size mill was used. The other test was made in a large unill requiring more than 200 horse power for operation.

## ANACONDA Copper Mining Company

Purchasers of Gold. Silver, Copper, Lead, and Lead-Zinc Ores and Concentrates.

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(DENVER MINING RECORD)

Gold mining shares fea-tured the dividend list for the month of aJnuary,

Low prices for lead, silver, copper and zine caused a de-stine in dividend payments of companies producing these me-

nary, 1931.

SEND A CONTRIBUTION TO THE SUNBURST BADGES

### Mercury Fumes From Makeshift "Smelter" May Cost Lives Of 3

An amateur's quest for gold made a death trap of a Denver home and A. B. McClimans of 2272 South Bannock Street, his wife and three-year-old daughter are fighting for their lives three days after the three were stricken.

"This is gold," McClimans fold his daughter, Shirley, as

"This is gold," McClimans told his daughter, Shirley, as he displayed a handful of sand.

"No," protested the child, "gold is yellow."

"Then I'll make this yellow," said the father.

Improvising a smelting process, McClimans mixed mercury with the sand and placed it in the warming oven of the store. Mrs. Mary McClimans, his wife, removed the mixture later and placed it over a gas burner. Like a lethal breath, fumes from the bubbling dish permeated the house, When McClimans returned from work his wife and daughter were writhing in pain, A physician was summoned. Mother and child became more dangerously ill and McClimans was stricken with a similar attack.

Physicians, alarmed and fearing a new malady, turned detectives. Influenza prescriptions were hastily cast aside and treatment for mercury poisoning administered. The three are responding to this treatment.

## Gold Dust Again Used As Medium Of Exchange

Stores In Vicinity Of Confederate Gulch

Get Placer Product In Exchange

For Merchandise

Helena, Peb. 27.—Many years have passed since the time when gold dust was exchanged at the grocery mainent. Cresson and Granite two Cripple Creek producers, mailed out dividend checks last month. The Granite mine was not on the list a year ago. Neither were Tom Reed of Oatman, Ariz., nor Pioneer Gold of Canada. Lucky Tiger-Combination Gold paid a dividend last month. It was not on the list a year ago. New gold mining companies are expected for be added to the list as the cold with prospectors. Young the list as year ago. New gold mining companies are expected to be added to the list as the cold with prospectors, young the list as the cold to the list as the cold with prospectors, young the list as the cold to the list as the cold with prospectors, young the list as the cold to the list as the cold with prospectors, young the cold list as the cold with prospectors, young the cold list as the cold with prospectors, young the cold list as the cold with prospectors, young the cold list as the cold with prospectors, young the cold list as the cold with prospectors, young the cold list as the cold with prospectors, young the cold list as the cold with prospectors, young the cold list as the cold with prospectors, young the cold list as the cold with prospectors, young the cold list as the cold with prospectors, young the cold list as the cold list

mining companies are expected is lined with prospectors, young to be added to the list as the months roll round.

At present Confederate creek is lined with prospectors, young real Diamond dust' refers to old months roll round.

The statement that it was "the months roll round.

The statement that it was "the confederate creek is lined with prospectors, young and Diamond dust" refers to old Diamond City, located in Confederate guich and at one time population.

This was the case when one of

(Continued on Page Eight)

## **Announcemen**

The Montana Oil Journal Has Taken Over The Publication Of

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