

SAVE FLOUR GOLD WITH CRUDE OIL

Elmore Principle Applied in New Machine on a Snake River Bar.

IRON SAND AND GOLD TAKEN UP ON A TABLE

This Concentrate is Dumped into Tank Containing Crude Oil and Water.

(Special Dispatch to The Journal.)
Weiser, Idaho, Dec. 7.—The Finley & Bandy Manufacturing company of Boise is erecting on Snake river one of the devices invented by F. B. Finley and D. H. Bandy for saving flour gold. This is the most original idea yet brought out for the work, and embraces a simple water concentration principle and an oil separation that might be likened to the Elmore patent. Since an attempt was made to amalgamate Snake river flour gold, which proved impracticable owing to the large quantity of material that passed over the plates and occurred there, the Finley & Bandy project has excited great interest among those who are striving to master this difficult problem.

The concentrating device used first in the table type, having nothing new in this respect, and is adjusted to save both the coarse cubical sand and the fine gold. As the iron sand and flour gold constitute a heavy proportion of the fine material in a Snake river bar, the duty of the table is heavy.

The heavy product clinging to the belt and carried against the water current on the table is discharged into a larger tank than that usual at the head of a Flume vanner. The surface of the water in this tank is kept covered with crude oil. As the fine gold values come in contact with the oleaginous substance, adhesion continues until the oil globules are borne to the bottom by the burden of metal. The agitating device in this tank is not perfect in the experimental plant completed, yet the owners state that they have been able to effect a remarkable separation of gold from the black sand concentrate. If this concentrate product from the table were put through as thorough a mixer as the Elmore people use in their oil concentration work, no doubt is felt by engineers that Snake river's fine gold would be taken up from the iron sand with great dispatch and economy. The Elmore principle is nothing more than utilization of the discovery that the molecular strains of certain metals will adhere to oil. Fine grinding is one of the necessary conditions of effective saving with the Elmore people, hence values in Snake river bars, which are known as fine flour gold, should be amenable to the process without any preliminary treatment.

The small plant built by the present company will not prove permanent, but it will illustrate the idea of the inventor. A gas engine of about five-horsepower furnishes the energy required in the present work. If the principle may be adapted economically river dredgers might easily be fashioned to embody this saving principle, and it is believed by many operators that the concentrating table is not an essential, as a good saving of the black sand and flour gold has been effected in sluices, which handle more material than color concentrating tables. The greatest difficulty has always been separation of the flour gold from the iron sand, and at one time operators thought both gold and sand could be shipped to the smelters at a profit.

AMONG MONTANA GOLD MINES NEAR HELENA

(Special Dispatch to The Journal.)
Helena, Mont., Dec. 7.—A Cleveland, Ohio, syndicate has purchased the Messenger group of mines 20 miles from Helena. The consideration is reported to have been \$100,000. There are 21 claims in the group, from one of which high values have been secured. On the other claims there is an immense body of low-grade free and cyaniding gold ore. The new company will begin work immediately and a 30-stamp mill and cyanide plant will be installed. The main vein of the property is a large dyke similar to that at the Treadwell, Alaska, mine.

The Great Northern railroad has announced a new ore tariff which it is believed will greatly stimulate mining in certain sections of northern Montana. The new rates do not affect high-grade ores, but makes a sufficient reduction between Nelhart and the Helena

smelters on those of lower values to enable many owners of erstwhile idle claims to work at a profit. While the tariff on ore runs more than \$25 a ton is \$2.50 but \$1.50 will be charged on a \$15 product.

Canoll, Martin & Sizer of Helena, who recently purchased the Moonlight mine in Madison county, have struck a good sized vein of shipping ore which ran \$120 a ton in the initial shipment to the smelter.

There is unusual activity in the Cataract copper district, near Basin. Work is being done on many claims with a promising outlook. The copper smelter there will soon be ready for operation, and the railway has been graded two miles. The Pittsburg & Montana company is shipping ore that averages \$40 a ton, principally in the red metal. Shipments from the Carbonate Chief have run as high as \$1,900 a car.

High-grade gold ore has been struck in the Black Jack claims near Cobbin under bond to Helena capitalists. A three-foot vein was encountered in the crosscut 20 feet from the shaft.

Helena investors who recently took over the Francis claim, on Red, mostly over the Francis claim, on Red, mostly silver-gold-lead ore within 20 feet of where work ceased in the abandoned tunnel. The property will be thoroughly developed.

OWNER TALKS OF THE NEW CINNABAR MINE

C. A. Patterson, who is one of the principal owners of the quicksilver property near Prineville, of which considerable has been written lately, has reached Portland with a quantity of specimen rock taken from the latest work. Mr. Patterson will have quantitative and qualitative analyses made of the ore, which he says has a high average in mercury. At the time work was stopped for the winter the roof of the tunnel had the bright vesicular appearance peculiar to the sulphide of mercury. Nearly all of the ore removed in recent work is high grade, says Mr. Patterson, and the full width of the vein has not been proven as the hanging wall of quartzite was the only one that had been reached by the crosscut.

"I believe we have one of the most valuable quicksilver properties of the country, if not the best," said he. "The magnitude of the deposit cannot be estimated by the work we have finished, which now aggregates about 1,000 feet. In the upper workings we have a vein or lode of about 47 feet width, with quartzite on one wall and a porphyritic formation on the other. In the lower tunnel, which gives an additional depth of about 65 feet, we crosscut three or four stringers carrying rich cinnabar values, they passed through a 12-foot vein that strikes out from the main vein, and later came into the large deposit in which the crew was working when Mr. Tillotson suspended for the winter. In some of the last rounds of holes fired the showing was remarkable, and it was not unusual at all for a large number of globules of the free metal to be found in the crevices of the rock. This free metal occurs in a porous argillaceous clay, some of these specimens carrying 20 to 30 per cent mercury. Cutting through these deposits of the native metal and its gangue will be found rich streaks of the mercury sulphide, or cinnabar, most of them being along lines of cleavage further marked by quartz. Whenever the quartz stringers occur the cinnabar is present in heavy proportion.

"An odd occurrence is a streak of pure white mineral of varying width which seems to be the core of the large deposit. This is quartz with crystallized sulphur, according to our early analyses, but I intend to have it tested more carefully. I reason it out that this was the origin of the sulphur forming the mercury coating known as cinnabar. Mr. Tillotson is managing the work, and I think it is the plan to drop down the hill further, and drive a 1,100-foot crosscut to open the deposit at a depth of 60 feet below present workings. This will be preferred to putting up a treatment plant at this time, although there is a quantity of ore in sight ready for such a plant."

TONNAGE TO SMELTER IS GROWING LARGER

(Special Dispatch to The Journal.)
Sumpter, Or., Dec. 7.—Operations at the Sumpter smelter continue steady, with increasing receipts of ore. The tonnage being put through the furnace grows, and before winter is getting up generally believed that the smelter will be receiving all it can conveniently handle. The Badger mine, F. W. Bradley's property, delivers about three cars of concentrates per week. The B. & E. in Cracker creek ships the product of its 20-stamp mill and 14 concentrators regularly. Seven Devils, Ida., sent four cars of copper ore last week, and will keep in the list of regular shippers. The Whitman property, also of western Idaho, delivered four cars of ore last week, making nearly twice as much as it had been sending. The Imperial management believes they will be able to hold the output of that property to nearer 20 tons than the 10 produced daily for some time past.

There is every evidence of permanency and prosperity about the smelting plant. Poles have been erected to carry a system of arc lighting, to facilitate the work of the night shift. The plant furnishes its own electrical energy. Between ore and coke being received and matte shipped out the smelter has proved a heavy tonnage maker for the Sumpter Valley railway.

NEW CONCENTRATOR PUT IN COMMISSION

(Special Dispatch to The Journal.)
Sumpter, Or., Dec. 7.—The Blue Bird company, operating near the Red Boy, is reported to have opened its concentrating plant yesterday. Manager O. C. Wright has fixed the early part of the week for beginning this work, and has been rushing construction with a good force of men. The 10-stamp mill in the same plant is running now, and the management expects to keep it busy continuously.

The concentrating plant is auxiliary to the stamp mill, the former consisting of gyratory breaker, roll-jaw breaker and two sets of centrifugal rolls. The breaker part of the plant is used for the stamps also.

TWO TABLES ADDED

(Special Dispatch to The Journal.)
Prairie City, Or., Dec. 7.—Two concentrating tables have been added to the mill of the Black Butte mine, of the John Day basin. In the work done by Superintendent E. C. Allen up till the present it was found that the rolls were capable of handling a far greater tonnage than the table would dispose of, and two more have been shipped in. The management believes that with this increase in milling capacity the mill may be made to handle about 40 to 50 tons a day.

An Astonishing but True Story of a most Remarkable Cure made by ACKER'S ENGLISH REMEDY,

The Greatest of all Modern Remedies for COUGHS, COLDS and CONSUMPTION.



"My home is in Sidney, Ohio. I have been nearer death with consumption than any other living person in the world, and I want you to read this, so you can tell others. I took a severe cold and neglected it. I grew worse all the time, and at the end of two years I had run into consumption. I coughed terribly, lost flesh, could not sleep, and became so dreadfully weak that I had to take to bed. In the following eighteen months I gradually reached the last stages of consumption. No less than seven physicians treated me and all gave me up saying I was incurable. I was absolutely helpless. The whole family wore themselves out caring for me. One day mother and sister came to my bedside and said I had but a day or two more to live. Tears rolled down their cheeks as they sobbed the news. The doctors had declared I was in the last stage, and no human being could save me. I was willing to die, but before going to the cruel grave, I wanted to go out and see my dearly beloved town of Sidney once more. They told me such a thing was impossible—that I would surely die before I got back. But I insisted, and to gratify my dying wish, a carriage was fitted up with a bed of pillows, and to this I was carried and slowly driven around Court House Square. I got home more dead than alive. Through the mercy of Providence, someone brought a trial bottle of medicine said to be a consumption cure. No one imagined for an instant it was worth trying. But as a drowning person grasps at a straw, so I tried this medicine. I was better after taking two doses. Mother got more of the medicine and I took it, improving all the time. Today I am as well as any reader of this paper, and the medicine that cured me was Acker's English Remedy for Consumption. I declare before God and man that every word here printed is true."

(Signed) BERTHA SHERK.

This remarkable testimonial, on file in the office of Messrs. W. H. Hooker & Co., Buffalo, N. Y., proprietors of Dr. Acker's Celebrated English Remedy, is vouched for by them, as well as by prominent druggists of Sidney, Ohio.

ACKER'S ENGLISH REMEDY

will stop a cough at any time and cure the worst cold in twelve hours. We have such confidence in this great Remedy that we sell every bottle under a most positive guarantee, that your money will be refunded if you are not entirely satisfied. 25c., 50c., and \$1.00 per bottle.

SOLD AND GUARANTEED BY S. G. SKIDMORE DRUG CO.

REGULAR SESSIONS OF GRAND JURY

Desire of Municipal League Which Says Present System Has Proved a Failure.

JURORS SHOULD MEET AT LEAST TWICE A YEAR

Mayor Williams Opposes Plan, and Inveighs Against Some of the Witnesses.

Members of the Municipal league are advocating a law calling a grand jury not less than twice in each year. Those members prominent in the present investigation say that with only one session the business cannot be expedited. As in the present instance, they say it requires so much of their time that they can hardly afford to give the governmental affairs of the city the proper attention. Miller Murdoch, John Bain and A. S. Pattullo, who were before the grand jury nearly all day yesterday, are each in favor of the new law.

Mayor Williams, who was also before the grand jury, says that if there should be more than one session he would die of indigestion; as it is, he says the Municipal league keeps him in a continual nightmare. The subject on which Mayor Williams read the riot act to the grand jury was non-citizens who take up the burdens of the administration of the city government without any right. Mr. Williams said he referred particularly to Mr. Pattullo, who has so far failed to take out naturalization papers, but who, as the mayor expressed it, has never failed to take a hand in the government.

In the Tanner creek sewer scandal the Municipal league has taken but little action, except to object to the new committee appointed by the mayor, believing that the investigation should have been made at the completion of the work and before the contractors had had an opportunity to patch it up. Mr. Bain, one of the members of the Municipal league, said:

"It is not our intention to press this matter any further than is absolutely necessary to protect the rights of the people. We are not so deeply interested in this as in maintaining the high moral standard of the administration as to gambling, but since the scandal has reached a stage where it is evident that the people have a right to be heard, we will do our part."

"If the grand jury sat in regular session oftener it would be much better for the city; then we could get our business in shape and present it to the jury without any delay whatever. As it is now matters come up sometimes 'feet foremost.' Everything must be done in a rush, and we can't do good work."

FRANCE EDWARD INK. ELECTIONS. (Journal Special Service.)
Charlottetown, P. E. I., Dec. 7.—Prince Edward Island is electing a new legislature today. It is the first general election since December, 1900. All indications point to the success of the present Liberal administration and the continuance of Hon. Arthur Peters, the present premier, in power.

BURTON IS SEVERELY CRITICISED IN BRIEF

(Journal Special Service.)
Washington, Dec. 7.—In a supplemental brief in the case against Senator Burton filed in the United States supreme court yesterday, he is severely criticised. The brief says:

"Mr. Burton's tracks were well covered. His association on behalf of himself and his client make a fair outside, but he held up the investigation because he was a senator and not merely because he was general counsel of the Rialto company; and the portions of the judge's charge aimed at him were perfectly accurate and just. If not, the most dangerous evil in this entire situation, viz. that intangible, subtle and insidious thing, 'influence,' can never be reached even where the receipt of compensation is plainly shown. "Because a man occupies a high position and the sting of the infamy may

HUSBAND WEARIES OF THE RUNAWAY HABIT

(Special Dispatch to The Journal.)
Colfax, Wash., Dec. 7.—"She has the runaway habit," declared Edward H. Rosecrans yesterday in the superior court when he filed a suit for divorce from Lizzie Rosecrans. He declared his wife had run away from home four times in the last six months, leaving him with two little girls aged 3 and 5 years to care for, in addition to cooking his own meals and doing the housework, as well as the farm work. They were married at Wilbur, Wash., June 28, 1898. In May, 1904, he says, she ran away to Portland, Or., remaining about one week. In June she left again and went to Fendleton and Baker City and was gone three weeks. She is now said to be in Fendleton, accompanied by her baby, 1 year old.

NEW HALL OF SCIENCE

(Journal Special Service.)
Middletown, O., Dec. 7.—The new laboratory of physical science at Wesleyan university, known as the John Bell Scott memorial, was formally dedicated today with interesting ceremonies and in the presence of a large gathering of alumni and friends of the university.

The building was formally accepted by President Raymond, in an interesting address, and he was followed by Edward Bennett Ross, Ph. D., physicist of the national bureau of standards, who delivered the oration of the day. The ceremonies concluded with a dedicatory prayer by Bishop Andrews.



Stormy Weather Tries the Paint

Maybe you have noticed that C'OBEE WEATHER - PROOF PAINT stands the racket. A guarantee in every package.

PORTLAND PAINT AND WALL PAPER CO.

Distributors, 100 Second St. Telephone, Black 8976.
FOR SALE BY
A. A. CHURCH CO., 150 Taylor St.
CARSTENS BROS., 444 Montavilla
J. B. McDONALD, 546 1/2 Williams ave.

Brown Tag Sale Nears an End

WITH THE CLOSING OF OUR BROWN TAG SALE, COMES XMAS. Our careful preparation has assembled a brilliant array of Holiday Wearables. Ours is a stock of practical giveables—offered in a practical way. It offers thousands of common sense answers to the difficult problem of what to give. You need not be tutored in fashions or values when you come here—You are in safe precincts here. The character and correctness of the styles are established by long years of successful leadership in the field of Men's and Boys' Outfittings. The holiday season's special providings are many—and important. Every energy of our great commercial organization has been exerted to the end that the best is before you—at the lowest possible prices. But—and this is most important—we have not been less careful in providing for the prosaic—every day—wants of the people because of the special efforts put forth to gather together the grandest holiday stock that Portland has seen in years. Don't overlook the

MAINE CLOTHING AND CHICAGO SHOE STORES

THE WORLD'S HIGHEST STYLES IN MEN'S CLOTHING

We offer exceptionally strong inducements in SUITS and OVERCOATS, more particularly the latter. No store in the city can offer such values as we do. See our

SUITS and OVERCOATS for

\$7.45, \$8.95, \$10.00
\$12.50, \$13.50

As a special inducement we will PAY THE CAR FARE of all purchasers of \$4 or over. All cars now transfer to our door. It will pay you to come here to look.

N. & S. WEINSTEIN

165 1/2-167 First St., Near Morrison

Christmas Presents

ARE NOW TO BE THOUGHT OF

See our line of Fancy China. It was never larger than this year. Our immense line of

10 Cent Articles

Are novel and good values

OUR SPECIAL BLEND 25c Coffee IS THE BEST

HAINES TEA STORE

170 THIRD STREET Phone Main 1708. Between Morrison and Yamhill

Behnke-Walker

BUSINESS COLLEGE NIGHT SCHOOL

SEVE AND HOBBS STS

PERMANENT — Monday and Thursday evenings from seven to nine.

BOOKKEEPING — (Laboratory Method).

SHORTHAND — (Perrin System).

TELEGRAPHY — (Touch method)

COMMERCIAL ARITHMETIC, SPELLING, ENGLISH and

BERNICE Tuesday, Wednesday and Friday evenings from seven to nine-thirty.

TUITION, 6 Mos., \$25.00

By the month—six dollars for the first month, five dollars per month for the following five months and four dollars per month thereafter.

Call or send for Catalogue

COAL

WE SELL ALL THE LEADERS Diamond, Australian, Roslyn, New Castle, Washed Nut, Blacksmith

Full Weight and Prompt Delivery. KING COAL CO. Front and Kearney Sts. Main 1485.