

BASIC PATENT OF OIL FLOTATION WILL BE DECIDED SOON AT BUTTE

(By Associated Press.)
BUTTE, Mont., Aug. 20.—The suit of the Minerals Separation, Ltd., against the Butte and Superior Mining company, was brought to a conclusion before Judge Bourquin in the United States district court here May 17. The trial of the suit occupied 27 court days. Plaintiff's counsel abandoned one claim at the close of the trial, so it has been expected that the whole case would be decided on its merits. Main briefs were to have been filed July 1, and reply briefs July 20.

The principal question at issue was whether the present operations of the Butte Superior Mining company infringe the patent of the Minerals Separation, Ltd. In these operations slightly over one per cent of oil is employed, and metallic mineral is recovered in the form of a froth, and the procedure is in all respects the same as the operations carried on for something over five years preceding the decision of the supreme court of the United States of December 11, last, except for the increase in the amount of oil used.

Counsel for the defendants contended that the supreme court had limited the patent to the use of oil in the proportion of a fraction of one per cent on the ore, and proved

at length froth flotation operations by the defendant, by the Utah Copper company and other companies, with the smaller amounts of oil before the supreme court decision, and the larger amounts of oil after the supreme court decision, and argued therefrom that since substantially the same results could be obtained with more than one per cent of oil as had obtained with a fraction of one per cent of oil, the supreme court had been mistaken in its opinion and the patent was void for lack of invention.

Plaintiff's counsel in rebuttal submitted evidence agreeing with the defendant that the operations with slightly more than one per cent of oil were substantially the same as those with a fraction of one per cent of oil, and therefore were not infringements of the patents; and contended that the supreme court had not imposed the limitation asserted by the defendant.

An interesting feature offered in behalf of the defendant was that they employed, in addition to the oily frothing agent of the patent in suit a soluble frothing agent consisting either of phenol or carbolic acid, which is not an oil at all, or of the soluble constituents of an essential oil such as pine oil. It was alleged in behalf of the plaintiff that soluble frothing agents

produce a remarkable fineness of bubble formation, and moving pictures were exhibited in court showing this minute bubble formation produced by the soluble frothing agents, which, when magnified two hundred diameters on the screen, appeared as clouds of bubbles producing what was called the "forest fire" effect. These moving pictures also showed that bubbles formed in pure water were large and weak and came together and coalesced with explosive violence, whereas by the addition of oil frothing agents small and persistent bubbles were produced and with the addition of soluble frothing agent the extremely minute cloud effect immediately appeared.

As to the operations by the Butte and Superior Mining company since the supreme court decision, using larger amounts of oil, at first slightly under and later slightly over one per cent, the plaintiff in rebuttal submitted evidence that by reason of the reduced recovery and diminished grade of concentrates obtained the loss of the company as compared with former operations amounted to about \$100,000 per month. This, without taking into consideration what was made by the Butte and Superior Mining company from flotation during the past three years.

HUNS MAKE A RADICAL CHANGE IN DEFENSE

(By Associated Press.)
BRITISH FRONT IN FRANCE AND BELGIUM, Aug. 20.—The beginning of the fourth year of the war finds the Germans rapidly making a radical change in their methods of defense along the British battle front in northern France and Belgium. The continuous lines of wonderfully constructed forward trenches with their deep dugouts, in which lived and fought great numbers of men, are fast passing into the discard.

The enemy is adopting the system of scattering his advance forces over a great depth. Cunningly constructed strongholds among the shell holes now conceal innumerable small and more or less isolated garrisons of men who formerly fought shoulder to shoulder along great stretches of picturesque ditches, through which communication was not broken for miles.

This alteration has been brought about by the ever-growing preponderance of British artillery which has buried the German front line (trenches under an avalanche of shells and has let the defenses crumble and has made the famous dugouts veritable man traps in which countless thousands have lost their lives without a chance of fighting back.

The continuous deluge of breaking steel made repair work on the trenches impossible and as the Germans were gradually pushed back they, of necessity, were forced to invent another mode of stemming the ever-advancing tide.

So it has come to be depth of defenses upon which the Germans

depend in many places rather than the strength of his first line trenches. The recent allied offensive east and north of Ypres disclosed many examples of this new scheme of fighting, which bids fair to take the place of the tactics of the last three years.

Wherever the German front line trenches have been made untenable, or where a British attack is expected, one finds the new order of things. The first German lines now often consist of strong outposts concealed in shell craters or copses, and a considerable distance apart.

Back of these outposts are chains of shell-hole nests, each nest consisting of two or three craters connected by underground passages that often lead to dugouts. As the entire territory is pitted with holes, this is easy of accomplishment and it may be presumed that the Germans figure it will be hard for the allied observers to pick out the defended shell-holes from the thousands of others scattered about.

Where time has allowed, the Germans have made the shell-hole defenses with elaborate care. Each nest is heavily protected by barbed wire, and the chambers are reinforced with timbers and concrete. In these the infantry lurk with machine guns and rifles, ready to rush out and begin firing if an attack is launched against them.

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GREENWOOD LEASE AT POCHE, IN ORE

ORE OF SHIPPING GRADE IS EXPOSED IN OLD PROPERTY

One of the best strikes made in the Pioche mines in a good many years, was reported in the Greenwood lease last week, according to the Pioche Record. In reality the find was made nearly two weeks ago, when a good showing of ore was uncovered about 50 feet off from the Amalgamated shaft on the 400-foot level.

The management has been following this ore, which, a few days ago, made into a great body of high grade shipping material, carrying values in lead, silver and gold. At this writing the face shows a full breast of this high grade material.

With the few men working in this part of the mine, about 10 tons of this fine shipping ore is being broken per shift.

Over at the Greenwood proper, the new compressor recently purchased, has been installed and will be placed in commission shortly, so that in the future the work will proceed more rapidly on this end.

It is said that the Amalgamated Pioche management will likely take early steps to drive from the 1200 level to catch a continuance of this onebody.

RANGE BURNED NEAR POCHE

A fire that started in Newark valley, near Pioche, burned a strip of range five miles long by two miles wide and did other damage before it was controlled. At the Robinson ranch it burned half an apple orchard, cooking the apples on the trees. Every rancher in the valley turned out and fought the fire until it was extinguished.

Advertise in the Daily Bonanza.

LENS IS A CITY OF CONCRETE HONEYCOMBED WITH TUNNELS

(By Associated Press.)
BRITISH FRONT IN FRANCE AND BELGIUM, Aug. 20.—The defenses within Lens and suburbs are striking examples of the German tendency to depend more and more upon large numbers of semi-isolated garrisons rather than to mass their men in trenches, where they would be at the mercy of the British artillery. Lens is a city of concrete and the ground beneath is honeycombed with tunnels. Almost every building has been destroyed by the Germans and the ruins have been fortified with machine gun emplacements.

So long as the Germans remain on the defensive it is improbable that they will return to the methods of

wartime inaugurated when they swept forward and were pushing the allies hard. The fighting among these new German defenses has given rise to many thrilling incidents. In the battle about Langemark on the opening of the latest offensive a young officer and 20 Somerset men had got through Langemark and were forging ahead along the road to the north when they encountered two strong concrete redoubts, one behind the other, which were still firing into the town. The Somersets surrounded the first redoubt and, although under a cruel fire, assaulted it with bombs and machine guns and forced the garrison of thirty Germans to surrender. They then started for the second redoubt. One by

one they fell and when finally the stronghold was reached there remained only six men and the youthful leader.

The officer buried two bombs through a narrow opening into the redoubt and threw two more against the steel door but without effect. Rushing up to the door he hammered with his fist and called out fiercely for the Germans to surrender. Thereupon followed a remarkable scene, the door being thrown open and 42 Germans flung out with hands raised. With them was a Yorkshire man, who was wounded and taken prisoner two or three days before.

The remnant of the little British band collected its 72 prisoners and returned to its own lines.

COLORADO MAN WINS BIG SHOOT

(By Associated Press.)
CHICAGO, Aug. 20.—R. A. King, of Delta, Colo., won the memorial trophy and William Ridley of What Cheer, Iowa, won the doubles trophy in contests yesterday which closed the events preliminary to the grand American handicap tournament. King had to shoot off a tie with Fred Hanlow of Newark, Ohio, as each had scored a 99 out of the 100 targets. In the shoot-off at five targets, King missed one and Hanlow two. Ridley's score in the doubles was 177 out of a possible 200.

First of the events today, the opening of the grand American tournament proper, will be a contest at unknown angles at 200 targets. Following will be the start of the professional matches.

OVER 100 I. W. W. AGITATORS BREWING TROUBLE IN RENO

That the I. W. W.'s have been conducting a vigorous organization campaign in the city of Reno came to light yesterday with the appearance of four alleged organizers, arrested Thursday night by Chief of police Hillhouse and other officers, before Municipal Judge George Bryson.

Rumors of I. W. W. meetings in Reno have prevailed for the last three weeks, the police being called out several times to investigate the nature of various secret meetings, said to have been held in the rear of the Nevada hotel and in buildings and shacks in different parts of the city.

Those who are closely following the actions of men kept under surveillance estimate that the number of I. W. W. members in Reno at the present time approximate 130.—Journal.

CONVICT LABOR FAILURE ON SMITH VALLEY FARM

Convict labor on Nevada farms has proved a failure, according to reports from Smith valley, where 30 prisoners were employed. A company engaged the prisoners at \$1.50 per day for each man, a small portion of which was to be placed to the credit of the prisoner. But three of the 30 delivered anything like a day's work and these three escaped at the first opportunity and are still at large.

ASSESSMENT NOTICE

TONOPAH GIPSY QUEEN MINING COMPANY—Location of principal place of business, and location of works, Tonopah, Nye County, Nevada.

Notice is hereby given that at a meeting of the Board of Directors, held on the 20th day of July, 1917, an assessment (No. 12) of One (1) cent per share was levied upon the capital stock of the corporation, payable immediately in United States gold coin, to the Secretary, at the office of the company, room 265 Russ building, San Francisco, California.

Any stock upon which this assessment shall remain unpaid on the 24th day of August, 1917, will be delinquent and advertised for sale at public auction, and unless payment is made before will be sold on Wednesday the 26th day of September, 1917, to pay the delinquent assessment, together with the cost of advertising and expenses of sale.

By order of the Board of Directors,
 CHARLES D. O'NEIL, Secretary,
 Office, room 265 Russ Building, San Francisco, California.
 First publication: July 26, 1917.
 Last publication: Aug. 24, 1917.

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