# THE WALLACE MINER

**Metal Quotations** 

WALLACE, IDAHO, THURSDAY, JULY 11, 1918

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#### TUNGSTEN EXPERT TALKS ABOUT ORES

#### Colonel Kennan Describes Find on Pony Gulch

HIGH GRADE SCHEELITE

Coeur d'Alene Ore Commands Premium--Field for Prospecting

OLONEL CHESTER T. Ken nan came up from Spokane Tuesday and went at once to Pony gulch where he recently made an important discovery of tung-So many inaccurate statements have been made regarding this "find" that Colonel Kennan, who is an expert on ores of tungsten and their make a statement regarding it and a few weeks ago I had men prospect tungsten ores in general. Colonel Ken-

Tungsten Unknown to Miners.

mineral, scheelite, was encountered in nize it, did not know what it was, in considered it an abundant nuisance, the stripping the vein appears about as it frequently 'scraped' their amaiwith the tailings into the creek, therethat lite is widely distributed in the gold northe side

Scheelite in Golden Chest.

stopes; but as scheelite occurs right crushed and 'panned' yields a in the gold ore, it was hard to separate string of scheelite, showing that the be rich in gold. Yet at several of the scheelite thus permeates the gangue mines, notably at the Golden Chest, rock of the vein, it is a good indica-Tungsten Minerals.

"Scheelite is the richest and most valuable mineral of tungsten. When pure it runs 80.6 tungstic trioxide, and deleterious substances yet found. A premium of \$10 per unit has been paid

ing in color from dark reddish brown to black; while scheelite, the colored tungsten mineral, is a calcium tangstate and may be any light color even snow white, but it is most usually found cream color, as in the Coeur

"The manner of occurrence of tungsten minerals is quite peculiar, a type is found in Colorado. Or they may the supreme court,

HELP SALVATION ARMY HELP OUR BOYS IN FRANCE WIN THE WAR.

The Salvation Army does not ask nuch assistance from the people of Shoshone county in carrying on the war work of the organization, but it is just as essential as the larger subscriptions that have been given for similar work by other bodies Just as the Salvation Army occupies a unique place and performs most useful service in peace, so is rendering service necessary for our soldiers in war that is not duplicated by any other organiza-tion. If you believe the work of the Y. M. C. A., the K. C. and similar organizations is necessary for the welfare of our army, then you must believe in the work of the Salvation Army, for it is engaged in the same service, but, as in civil life, it reaches a class not effective ly reached by any other organization. There should be quick and generous response to the appeal for the Salvation Army.

in gold mines and in the gold veins

and gold placers, except in two in-stances: About two years ago a contact scheelite vein or zone was found manner of occurrence, was asked to lode property on Prichard creek, and for a scheelite vein which I believed crossed Pony gulch and found it. This is also a contact vein in quartz and "Tungsten ore scarcely came into quartzite, lying between slate and commercial importance until about the quartzite, with several igneous dikes year 1900; and although the tungsten lunning nearby and parallel to it. It appears to dip at an angle of about quantity in all the gold veins of the 45 degrees southwesterly and strikes north side which were mined to any north about 20 degrees west. This extent, the gold miners did not recog- vein was uncovered in the creek bottom and has been stripped for about 30 fact, but called it 'heavy spar' and feet in length. At the north end of considered it an abundant nuisance, the stripping the vein appears about gam plates, carrying off the quick-about 10 feet wide. The scheelite, in silver, amalgam, gold and all along accordance with its typical or native ond have found that the high wage ation the possibilities of deeper de manner of distribution, is irregularly by causing large losses in gold milling. All the mills in the district were specks, grains, chunks, seams and and who will soon be found back on the future and is not being considered specks, grains, chunks, seriously hampered in their operations veinlets. On account of its irregular by scheelite, 'scraping' the plates, this distribution it is quite impossible to fact when one considers the present is nevertheless interesting to observe which serves as a brake. The loadschee- estimate by sight the percentage of the gold scheelite carried, and it is likewise impossible to arrive at an accurate estimate by 'hand sampling' and as-"The mine muckers took pains to saying the hand samples. Often a cob out some of the coarse pieces of piece of the ore which exhibits to the Often a scheelite and throw them in the waste eye no scheelite on the outside, when it by hand picking, as most often the scheelite was on the inside of the pieces containing scheelite would also gangue rock or matrix. When the pe to market. The Golden Chest ship- is so heavy it can be 'panned' in a stopes. estimated that at present prices about the way. At present prices 1 per cent \$1,000,000 worth of scheelite was in a vein of this size would pay handmined and wasted by the early oper-ators. This shoot was also rich in derstood, each 1 per cent of scheelite gold. But the curious fact is here in this vein is worth about 30 times noted that the scheelite itself does not as much as if it were lead, 'galena,' carry gold, the gold being in the instead of scheelite. Much scheelite quartz and associated iron minerals. was encountered in placer mining in Pony gulch.

Gold Pays for Mining.

"A peculiar and important advantage we have in the Coeur d'Alenes, where for the gold alone, and the scheelite, as a byproduct, can therefore be producers of tungsten.'

LOWER COURT REVERSED.

Condemnation Case Appealed to Supreme Court From Benewah.

of occurrence all their own. They have down an important decision in the Last month the company shipped 3200 not been found to occur in large solid case of the Tyson Creek Railroad tons of concentrates the product of bodies of mineral, as iron minerals, for instance, occur; nor yet have they been found to occur as evenly distrib
Harrison. It was a condemnation acper day or better. The cost of hanuted in connection with vein or de- tion for right of way and damages dling these tailings is almost nominal. posit as gold, silver and copper. They in which the eminent domain law of They are conveyed to the flotation may be found in any rock formation, the state was involved. The case was plant by a drag-line operated by one but are primary minerals and originate tried before Judge Flynn in Benewah man, ground in ball mills operated by at depths in the igneous complex.

County and the trial occupied more one man, and thence pass through the than two weeks. The Empire Mill flotation cells which require only one impregnating igneous rocks in a fiscompany and Connelly were dissatisman. zone, as ferberite fed with the decision and appealed to do. Or they may the supreme court, which reversed the supreme court, which reversed court alone or associated with other minerals in veins or deposits. They court in zones of scattered disconnected pieces or deposits, as bunches, pockets, chunks, kidneys, veinlets, chimneys, lenses and stringers.

Good Field for Prospecting.

The supreme court, which reversed the lower court, finding in favor of only a few months ago and is meeting every expectation. Many changes are being made in the original mill, old machinery being replaced by new and mining property. Chas. L. Heitman and C. W. Beale, of Wallace, were attorneys for the Empire Mill company floor, where new tables have and connelly and the Tyson Reilized.

### START INTERSTATE- BIG CREEK COMPANY CALLAHAN AUGUST I INCREASE SHIPMENT

#### for Immediate Production

MORE MILL CAPACITY CRUSHER AND HANDJIGS

Tailings Dump Will Net the Clean Shipping Product--Fine Company Over a Million ---Overcome Loss

HE ADDITIONS and changes being made in the Interstate-Callahan mill are rapidly nearing completion, and C. W. New superintendent of the mine, stated in readiness for a general resumption vey and of the regularity of the vein of mine production before the first that it was encountered within 10 feet of August. Prior to the suspension to of the distance estimated by the enpermit the changes in the mill the gineer. company had experienced no trouble closed at the point of intersection on account of labor shortage and Mr. proved the continuation downward of Newton does not anticipate any seri-ous delay in getting a full quota of productive on the tunnel level 560 feet men when the mine resumes produc-tion on or before the first. In fact he is now receiving numerous applica-above that. Thus the strike in the tions from former employes to return lower tunnel, or No. 3, proved a conto work. Instead of seeking work in tinuous ore shoot for a depth of 1200 other mines of the district when laid off, many Interstate-Callahan embed been removed from those upper levels, ployes went to the harvest fields of the although representing many thousands northwest, while many others sought of dollars, is small compared with the employment in the shippards of the large area that has now been prac-coast. The first will return when the ond have found that the high wage ation the possibilities of deeper descale on the coast has its drawbacks velopment. While the matter of anwage scale in the Coeur d'Alene dis-trict in connection with the favorable be gained before the question of sinkworking conditions, cost of board and ing comes up for consideration. These lodging facilities doubted whether the men who are dis- steady enlargement of the ore bodies posed to leave for new fields through while the attraction of higher wages suc- as de ceed in improving their condition.

Mine in Fine Condition.

During the period of suspension of production the Interstate-Callahan company has taken advantage of the situation to push development work. after the rise in the price of scheelite, tion of richness in the ore. On the the old dumps and stopes were particular to the hand, should it only appear in mine extending drifts on the lower tially worked over and long-ago discarded scheelite picked up and ship- be so much scheelite in the vein. It putting in chutes to accommodate new The lowest level is now 1050 pet about \$100,000 worth thus obtained. A rich zone of scheelite occurred in the 'Klondike Shoot,' about 900 feet long, of this mine from which it is ped would be a guess not far out of than at any time in the history of the mine. So thoroughly have the de velopment plans been carried out Mr. Newton states that within one hour after the order is given the mine is in position to begin maximum production.

Money in Tailings.

the flotation plant has been running on the big accumulation of tailings, estimated at 250,000 tons. In his report to the stockholders President Perthe scheelite from the Coeur d'Alene the tungsten occurs in gold veins, is cival estimated that these tailings district is the purest and freest from that the gold veins are 'good pay' veins would run 12 per cent zinc and that would run 12 per cent zinc and that with a 90 per cent recovery the tailpremium of \$10 per unit has been pare over current prices for this scheelite on account of its extreme purity.

"There are four commercial minerals prices, can compete with this kind pound, the price at the time the report was made, it was estimated that the port was made was estimated that the port was estimated tha ings should produce 60,000 tons of connerite and wolframite. The three latter are termed the dark minerals of tungsten, containing iron and manganese in varying amounts and ranger ing in color from dark reddish brown. operation, it is bound to become one his estimates. Mr. Newton is authority light of the most stable and permanent pro-15 per cen zinc and that the recovery centrates average 49 per cent. In addition to these higher figures, price of zinc has advanced and the company is probably receiving 1 cent per pound more than the price The supreme court has handed when the president made his report.

Increase Milling Capacity.

The flotation plant

Mine in Fine Shape Adopts an Original

Method of Treat-

ing Its Ore

Ore Showing and Great **Possibilities** 

WAS along in January when the Big Creek Mining company struck the vein which was the objective of a crosscut which had been run in round figures 2400 feet, and it is jig depends upon the quality of the significant of the accuracy of the surweek that everything would be significant of the accuracy of the sur-The splendid body of ore disit may well be facts taken in connection with maintaining their high values as depth is attained, afford material contemplation to Big Creek shareholders.

Provide Shipping Facilities. The ore where first encountered in

No. 3 was galena, but drifting soon disclosed gray copper as well, much of both ores being of shipping grade Ore taken out in the drifts alone soon made a large accumulation on the dump, and a building was erected for sorting it for shipment. The plan first was to dump the a grizzly, the coarse chunks being hand sorted and the lead and gray copper being separated. The finer stuff that passed through the grizzly was then hand jigged, the lead and gray copper products of this process being also separated for shipment. It was found, however, that this method was too tion after the stopes were opened and While the mill has been closed down G. Scott Anderson, manager of the company, was confronted with the of devising means to meet the situation without incurring the expease of building a mill. In this he was greatly assisted by the practical on all shipments during the past four knowledge and experience of Chas.

K. Moffitt, superintendent of the mine. and through their combined efforts the til four months after the ore has been Big Creek company now has a plant received by the smelter and the price which, while not entitled to the dig-nity of being called a mill, does never-below to the smelter and the price paid is based on the quotation for cop-per on the date of settlement. All

story was extended to give total floor space of 20 x 75 feet. this floor there are three hand jigs in operation and the fourth one is nearly completed. In the ore sorting room a Blake crusher has been installed at the foot of the grizzly with a short platform between. The crushet is driven by an electric motor. As finer ore goes through to the jig floor. The man who feeds the crusher rakes the ore down and into the crusher, picking out all chunks of clean ore that come to his notice and also chunks of waste, similar to the sorting belt process. This is all the sorting that is done now, all the ore passing through the crusher and dropping to the jig floor below.

The jigs are under the personal su-pervision of G. T. Hutsell, a hand jig expert, who for many years has been successful in recovering the values in the tailings of Canyon creek.

RED CROSS DANCE SATURDAY EVENINGS AT HOWARTH HALL

Beginning next Saturday evening

dance will be given at Howarth hall under the auspices of Sho Chapter of the Red Cross Red Cross ladies will manage the floor and the receipts will go into the treasury of the local chapter For these dances the Brown-Fisher orchestra, with a patriotic generosity that has never failed to respond to the call of the Red Cross will donate the music. Howarth hall is the most delightful dancing pavilion in the state of Idaho, and the purpose for which these dancer are given is one that appeals to all red blooded Americans. If you dance you cannot spend an evening more pleasantly nor help nobler cause than by visiting How arth hall Saturday evening. Red Cross needs the money and you need the relaxation which these dances provide.

shipping product turned out by the ore, but at the present time with three jigs running one shift the output, including the ore taken out at the ground men \$5.25 per day. The incrusher, is about eight tons. The mine will soon be in shape to increase the output, when two shifts and possibly three will be put on jigs.

The jig water contains considerable

slime and this is conveyed to a settling tank 12 x 14, divided into two compartments, the use of which adds ensiderable revenue ctherwise be lost. A separate dump s made of the tailings from the jigs, with the view to possibly reworking them when the company has a mill with facilities for fine grinding. examination of them indicates that there is not much value left in them.

How Ore Is Hauled. The ore in sacks is hauled to the foot of the hill on wagons with broad iron wheels and built on a narrower gauge than the standard road wagons Two tons are hauled on the wagon and ing platform at the foot of the hill is about a mile and a half from the railroad at Shont spur, where the ore is transferred to the cars. The value of the shipments, according to smelter returns, averages \$115 per ton. Mr. Anderson states that he expects to be able to ship at the rate of three carloads every 10 days. The company the boarding and bunk house is being enlarged to accommodate a force of

## NATIONAL GETS BENEFIT

COMPANY MAKES RECORD SHIP MENTS IN JUNE-BIG SUR-PLUS IN TREASURY.

The addition of 21/2 cents to the price of copper as announced by the government, effective July 1, means an additional profit to the National Cop-Under the terms of ship ment, final settlement is not made un improbable that the metal will receive another advance, as strong pressure is ground, which is reputed to be being brought to bear on the government in behalf of the smaller produc-

National Shipments.

During the month of June the National shipped 13 carloads of concentrates, this being the highest record made by the company. In May 12 carloads were shipped. The tonnage of the two months was about the National concentrates average teams make one round trip about 15 per cent copper and 40 ounces The showing of ore in the lower tunof silver, and the value of a carload nel continues very satisfactory prior to the advance in the price of when the ground under the rich ore copper was in the neighborhood of

The force in the mine has been considerably increased, made necessary by the new work that has been undertaken to which reference was made is made above. A compressor driven last week. It is understood that the by gasoline is being installed and is company now has in cash on hand and money due on ore shipped an aggregate of about \$75,000, and is free chimneys, lenses and stringers.

Chimneys, lenses and stringers.

Good Field for Prospecting.

The Coeur d'Alene district has never been prospected for tungsten minerals, all the scheelite so far found been encountered incidentally

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The Coeur d'Alene.

The The most fore, and it is believed that this will fore, and it is believed that this with the amount of the table concentration. The changes in the mill, in addition to reducing the being to make a more perfect separation of the zinc and lead. The loss losses, will increase the capacity about to the property.

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#### **OPERATORS ADVANCE WAGES OF EMPLOYES**

Miners Will Now Receive \$5.25 a Day

ACTION VOLUNTARY

Been Under Consideration for Several Weeks---4000 Benefited

ESTERDAY THE announcement was made on behalf of the mine operators of the Coeur d'Alene district that the wages of all employes would be adrease applies to all employes in and about the mines and mills and clerical forces, and also includes shift cosses, foremen and superintendents The new scale becomes operative on was announced, July 10.

Voluntary Action. Like all former increases ages of employes, the advance was voluntary on the part of the opera-tors in recognition of the fact that the men are entitled to more pay as an offset to the steadily increasing cost An of living. The matter has been under consideration for several the managers of the various companies and numerous conferences have been held as a means of arriving at in agreement for uniform action. The action was not the result of wage advances in Butte or other mining cen-ters, for it had been practically agreed ipon weeks before and the announcenent only awaited agreement the amount of the increase.

About 4000 Men Benefitted.

The wages in the Coeur d'Alene district were first advanced in Febru-ary, 1916, by the adoption of a sliding scale which provided for a maximum increase of \$1 per shift when the price of lead is \$6.50 per 100 pounds or more. This scale was further increased is now employing about 25 men and provide for another 25 cents raise when lead is over \$7.50, making the wage \$4.75. This rate was reached, and although the price of lead until recently was for months telow \$7.50, wages were not reduced to correspond. And it is significant of the friendly attitude of the companies that the present made without regard to the sliding scale. When the sliding scale was scale. When the sliding scale was first adopted it was estimated that the number of men affected was about 5000. Since that time for various causes due to the war, the number of employes has been greatly reduced. all the mines being short of men, and it is now estimated that the number of men affected by the increase is between 3500 and 4000.

ST. JOE PLACERS.

Wallace Men Will Work Ground During Remainder of Summe

Frank Rose and Alex Livingston eft on the Missoula norning for the St. Joe basin, where to which he will give his attention the will result in greatly increasing shipments from the National for the period of 120 days prior to July 1 will be paid for at the new rate of 26 cents per pound. The new rate is fixed until August 15. In the meantime the war located many years ago by Peter sorting building which added another story to the building, and the lower story was extended to give ingston is an experienced placer min-August 7 to give surther consideration to the price of copper and it is not improbable that the metal will receive from him that Mr. Rose acquired the great prospective value, but will require considerable capital to place it on a profit earning basis.

ST. LAWRENCE.

Two four horse teams are now engaged in hauling ore from the St. Lawrence mine to Saltese. About four tons are hauled at a trip and the shoot above is reached there is every reason to expect the same big body This tunnel is about 200 feet below the original workings and will be the main outlet when connection expected to be in operation this week.

Thomson Here.