

\$600,000 in Gold Spent Annually in County **BUSINESSMEN DEPENDENT ON MINE INCOME FOR LARGE PART OF TRADE**

(By Leslie Shaw) "... And gold at the root of a tree will be found..." Such were the words of "Mother Shipton," imaginary English prophetess of five centuries ago, in tipping off the world that gold is "where you find it." Which brings the thought directly to southern Oregon,

where at the roots of thousands of trees gold has been found. High on the mountains, deep in the valleys, and far in the wilderness that borders the myriads of streams the precious

winterniess that Dorders the metai has been located. For more than 85 years an army of miners has been taking out an almost steady stream of gold, total-ing millions of dollars. Men have scraped dug, washed and shoveled the metal from its hiding places as they engaged in building up an empire within an empire, southern Oregon. Added to this wealth have been

Added to this wealth have been returns from other mining opera-tions. What with southern Oregon being tagged by United States en-gineers as a district with deposits of more types of metals than any other section of the nation, various metals are now being mined here. Other deposits are awaiting devel-opment.

Scattered as is the industry throughout the vast mountain stretches, the public not directly concerned with mining in itself is wont to ignore the extent to which practically every man, woman, and child in the region is dependent on mining.

Child in the region is dependent on mining. Not having a mine in their own back yard, seldom seeing past the pacer or hard rock operation, Mr. and Mrs. Public are apt to let go unnoticed the very industry on which their own business may be almost dependent. On this thought is the basis of the coming "mining display". On January 29 and 30 merchants, bus-more or less acquainted with the value of the mining industry to southern Oregon will conduct a display for the purpose of making readents "mining conscious".

residents "mining connections . And in this connection a com-munity committee, beaded by Ward Harwnond, has conduct survey to determine to a cons-survey to determine to a cons-

to min-and members of his conduct its extent the arount of the min-and members of his committe-ited store operators and other busi-ness men all over the county to learn the amount of business they could lay at the mines' door. Before considering the survey it-set, certain points must be brought to mine: That: Certain businesses we re not considered such as public util-ties, attorneys, lumber mills, hot-tes and dentists. Become the survey it-set, certain points must be brought on the survey it-set, certain businesses we re not considered such as public util-ties attorneys, lumber mills, hot-tes and dentists. Become the wass green thandi-cap in that business men often did not know when they were dealing with a mine representative, a min-er, or a mine owner. This is due to the same principle that a hardware store clerk for instance, much of the time does not know whether harmer, a visiting bankar. WPA ordename. So in estimating the amount of business brought to them by mines and business brought to them by mines and business through the survey showed that mining in southern Oregon was alone responsible for well over store clerk. So whether the survey showed that mining in southern Oregon was alone responsible for well over southare mining in southern Oregon as alone responsible for well over southar mining in southern Oregon that mining in southern Oregon mand's tabulations were summar. Hentotaled, the survey showed that mining in southern Oregon mand's tabulations were summar. Hentotaled the survey showed that mining in southern Oregon mand's tabulations were summar. Hentotaled the survey showed that mining in southern Oregon mand's tabulations were summar. The total of these is \$559230. Temations with the utilities, lum-box southers. The could be mine survey in the total over souther.

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due to business brought from the mines. These clerks, and the store owners themselves, make addition-al transactions with their neighbor business men as a result of their mines income, and the neighbor businessmen in turn perform addi-tional transactions, and so forth. Many stores in the country are primarily dependent on the mines for income. Figures in Mr. Hammond's sur-

for income. Figures in Mr. Hammond's sur-vey were secured from eight auto-motive dealers, six petroleum com-panies, eight hardware stores, 26 grocery stores, four furniture stores, 10 clothing stores, and six drug stores.

drug stores. Still another point to consider are the reports of scores of families in this district that managed to keep off relief rolls during the de-pression by picking out an exist-ence with shovel and pan along the streams. drug stores

HAMMER GOES TO **MINERS DIRECTLY** WITH MAH, WARES

To Lew Hammer, Seina store keeper, newly mined gold is as fa-miliar a medium of exchange as coins or currency when the mines in the Oak Flat section are in full operation. A complete line of gen-eral merchandise is carried in the store and a late model panel de-livery truck makes wasty trips miles. It carries nod, clothing and other items needed in the daily for Mr. Hammer is also the post-master of Selma. The delivery truck makes its trip

for Mr. Hammer is also the post-master of Selma. The delivery truck makes its trip to the Oak Flat road every Satur-day. The gold scales are taken along and the precious metal is weighed right at the scene of oper-ation. When the mining season is to the sight the truck often takes back a substantial amount of gold. Only once in three years has the truck failed to make its weekly yound trip to the mines. This was about two years ago when the snow was deep and the truck got stuck is miles from Oak Flat. Other than this there has been no mis-hay, although a hold-up was nar-rowly averted in another instance. The robbery plans leaked out, however, before they could be put into execution.

HYDRAULIC

PIPE and Fittings **ELBOWS** TEES

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Metal Works

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E. H. Messenger, Takilma storekeeper and postmaster, is shown, on the right with C. L. Owen, a miner, demonstrating a gold rocker. The rocker, which was invented and put on the market by a personal friend of Mr. Messenger's is de signed for prospecting and working small claims. It may be taken apart and carried on a man's pack. Owen, who has used it in the hills back of Takilma, mays it is much faster than the old ganning method. und

anys it is much faster than the old pan Aiken has driven the truck. Prior to that Hammer made the weekly interview of the minered of the second some of the minere do not come to town once in six months, depend-ing entirely on the service for their own his diggins." for hearly a year. The Oak flat road was built by the service for the service of the second second second second on his diggins." for hearly a year. The Oak flat road was built by the second second second the second second second second to the second the second second second second the second sec

price of Sold there was practically no business With the mining revi-val started by \$55 gods and the store of the store of the the store of the store of the Mr. Hammer himself. The average small miner make from \$5 to \$8 a day in that sec-tion. They have made a good liv-ing during the time that the relief rolls were supporting many fam-ilies in other sections of the state. Some are inexperienced at the work but the majority have a back-ground knowledge of oning. This year there has been very lit-tle activity so far owing to the lack of rainfall but Hammer boyed that the season will be extended later than usual into the spring and summer, if late rains and melting snow makes up for the present de-ficiency.

Amaigam—The compound of mer-cury (quicksilver) with gold or sil-ver.



Holland, Kerby Historic Centers of Production

FLOYD COUNTS UP MANY WORKING IN HOLLAND DISTRICT

A fortune in gold dust and nug-gets has gone into the gold scales in Harry Floyd's general store and postoffice at Holland during the 38 years they have been in use. The store was established in 1896 by J. M. Smock, Mr. Floyd's father-in-law. The scales were purchased two years later, in 1900, and have been a part of the fixtures ever since. They are still in use and weigh as accurately as they did three decades ago. Tholland is two miles south of the faves highway, adjacent to the rich mining district around Sucker creek, Althouse and Grass Flat where gold was first discovered in the early fifties. The Althouse brothers, John and Philip, are cred-cied with first discovering the dis-tict took its name from them. This was followed quickly by the finding of gold on Sucker creek by two brothers named Fry from Illi-state was given to that locality. Gold discoveries on Canyon creek and discoveries on Canyon creek

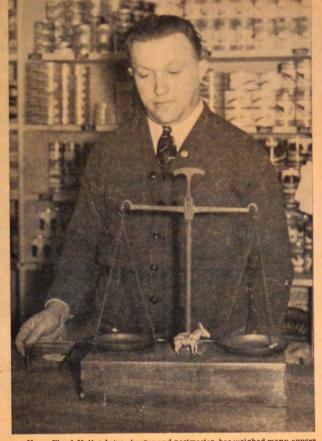
Josephine creek were made and after. Continuous operations have been carried on since those early days and several large placer mines and a few valuable quartz properties are found there today. There are, in addition, numerous independent miners and "snipers" working the ground. These so-called "snipers" manage to dig enough gold from the ocks and gravel even in the dry season to buy their "beans and bacon." During the winter freeze and dry spell, which has been unus-operators can not work their pro-perties for lack of water. All of the miners have been wait-ing for water, Mr. Floyd said, and were all set to go some time ago. With the coming of warmer weather tom. Some of the larger placers in the

With the coming of warmer weather one of the crews are already on the ob. Some of the larger placers in the listrict include: : The Four Star mine owned by E. adding, Santa Monica, and oper-the under a lease by Clark Dix with a party of four. Hydraulic work will start as soon as water and weather conditions permit. Eugene Karer, hydraulicking with a party of three, using one or two inns. R. S. Leonard mine. operated by William Von der Hellen. Medford contractor, on a royalty basis. using hydraulic equipment, steam shovel and several trucks. Thirty or forty men, worked this property last spring, installing new equipment at a cost of several thousand dol-lars, including two giants and all new sluice. With the start of oper-ations this year fewer men will be required and only one or two trucks because of the new equip-ment. Paul Brandley started hydrau-

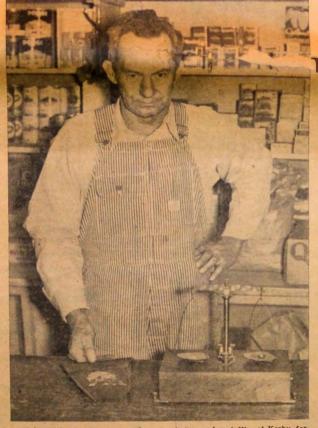
required and only one or two trucks because of the new equip-ment. Paul Brandley started hydrau-licking on the Althouse two years ago. About 15 men were used dur-ing the period of development and installation of equipment. Three men last winter and the same number will be used this year. Earle C. Stevens employed three men last winter on his Althouse creek property and will work the same number of men this year. Twe Johnson will employ a crew of three men this year. Clay Ramsey will use two men this year on his Mlthouse creek, He worked two or three men last winter. Tohn Appel in the Grass Flat dis-trict will use a crew of five or six men most of the time this season on his hydraulie work, with two large funts being operated. Bob Fleming will operate his placer near Tiger Town with three men. Frank Wilcox will employ sev-

men. Frank Wilcox will employ sev-eral men on his placer two miles above the Fleming operation in the Tiger Town district. Gerald Loben, McMinnville, has four or five men working on his Sucker creek mine on what is known as California Bar. He is using two small drag lines and other equip-ment.

small drag lines and other equip-ment. Martin Brothers will have four men working on their Sucker creek mine again this year, using a drag line. The same number of men worked the property last season. The two largest quartz mines in the vicinity of Sucker creek are the Little Gem and the Boswell. Clark Brothers own the Little Gem which is said to be one of the rich-et propertie. In the vicinity. The two workers, well savanced in



Harry Floyd, Holland store keeper and postmaster, has weighed many ounces of gold from the hills in his district. He is shown here with a 36 nugget on the scales and a much larger quantity of dust and nuggets in the "blower" held in his right hand.



John Wittrock, who operates the general store and posloffice at Kerby, for-merly known as Kerbyville, is shown here with \$55 worth of gold in scales, and a "blower." The gold was brought in by miners during a ten-day period the early part of January. Despite the cold weather and lack of water they are still taking out gold, says Mr. Wittrock.

years, have retired and the mine is not being worked at present. It has been six or seven years since the Boswell mine has been oper-ated. It is also rated as a rich gold bearing property. Mr. Floyd has a private telephone system which extends to some of the large cause in the district Siv-eral operation. have been ted in

with the system during the past year or so.

year or so. In adjidtion to the large opera-tors, Mr. Floyd estimated there were approximately 75 men out with pick and shovel and small pack equip-ment in his district at the present time. all of whom are making a lis-in. They average them \$2 to \$8 a day.

WITTROCK KNOWS NUGGET'S SOURCE BY LOOKS OF IT

The town of Kerby, formerly called Kerbyville, has a colorful history and at one time was the county seat of Josephine county. The townsite was laid out in 1855 and the place was named for one of the early pioneers. The county seat was moved from Kerby to Grants Pass in 1886.

seei was moved from Kerby to Grants Pass in 1886. The general store operated by John Wittrock marks the place where much of Josephine county's history was written into the rec-ords. In the early days there were hotels, stores, dance halls, gambling places and saloons which were fre-quented by the thousands of miners and prospectors who flocked there from California and elsewhere. There were numerous mining camps along Canyon creek and Jo-sephine creek, all of which yielded good returns. There are several placer opera-tions in the locality today and 35 or 40 small, independent miners are making a living from the gold they find on small claims along the streams.

streams. Among the larger placers in the section are the Golden Princess, owned and operated by R. W. Dud-ley and the mine operated by Phil-lip Seutter on Josephine creek near Day's Gulch.

Approximately 40 men were em-ployed on the Dudley property last summer, according to Mr. Wittrock, in development work and installa-tion of new equipment. Fifteen men will be employed at the mine this year in hydraulicking opera-tions. Mr. Seutter will employ three or four men at his mine, using tw o giants in hydraulic work. Mr. Wittrock, when interviewed recently, said that he had taken in about \$52 worth of gold during the past week from three miners work-ing on Canyon creek. The miners, "Rusty Mathews, George Bour and William Mokus, have adjoining claims. Mr. Wittrock is shown in the part

William Mokus, have adjoining claims. Mr. Wittrock is shown in the ac-companying photograph weighing a gold uugget taken from one of the Canyon cheek claims. It is worth 5.50. In the "blower", shown on "to be a sease and the "blower"

soon in the chower', shown on grains and mo-grains and mo-ter and the store of the source "have a history behind them. The "bower" according to Mr. Witt-rock is 80 years old and was first used by a chinaman who mined along the creeks in the early days. The instrument is called a "blower" because the miners used to put the dry gold into it and blow the light-er materials mixed with the metal, such as sand and dirt. out of the pan, leaving the gold. The scales but have been used to weigh much gold while in Mr. Wittrock's pos-session. — On of the oldest set of scales to be found in the district is owned by John G. Gilmore. They used by Mr. Gilmore's father, Dave Gilmore earls to Josephine county in 1852 and prospected several mines. Including the old "Number 7". near Browntow. — The oldest miner still living in the district is John Bour, who is 7. years old and still active. — The oldest miner still prome which it was taken. Some of the gold shown in the photograph was found farther down the stream. That found farther up the stream. That found farther up the stream. The district is old when the stream. That found farther up the stream. That found farther up the stream. The distribute some of it was found farther down stream. The distribute is more the sole of the stream the nocks down stream. The metal also differs in weight and color, according to the locality in which it is discovered, explainded Mr. Wittrock. Bas a number of inosession. He displayed two pieces.

in which it is discovered, explained Mr. Wittrock Mr. Wittrock has a number of possession. He displayed two pieces of rock containing a high percent-age of nickel. a mineral that is found in small quantities in the Kerby district along Josephina creek.

Hanging-wall-The upper wall of

Ore — The substance specially containing metal.

Placer_Name given to gold dig-gings or hydraulic mines.

Quartz-Uure-silica in a crystal-ized form.

PAGE FOUR

JANUARY 27, 1937

Canal Five Miles Long Brings Water to Mine

DEVELOPMENT OF LARGE GOLD BOND PLACERS LISTED

An undertaking that has now reached a stage of major import-ince among the placer mines of Southern Oregon, is that of the Gold Bond Placers, situated in the Briggs Creek Division of the Illi-nois River mining district, where proportion together with an ap-propriation of 50 second feet of wa-ter for mining purposes, taken to golder creek, a tributary of briggs.

the for mining purposes, taken throw Soldier creek, a tributary of briggs. A large crew of men have been the past three years, in the development and the installation of the past three years, in the development and the installation of the past three years, in the development and the installation of the past three years, in the development and the installation of the past three years, in the development and the system of distance of five miles, then by pipe line to site of operation. The water development and the system of distance of the water developed the the solution of the system of the system of the development. The water developed the the development and the development and the development and equipping of the system of the syst

The illustration on the front page of this section shows a man with a "giand" at Gold Bond Placer, one of the big placer operations found in Jo-sephine county in which the hydraulic method of extracting gold is used. The terrific force of water, which is forced out of the large nozzie under high pressure, may be plainly seen in the picture. Hydraulicking is used where gold is found in gravel deposits, washing the material into stuice boxes and over "rifflee" where the values are extracted.

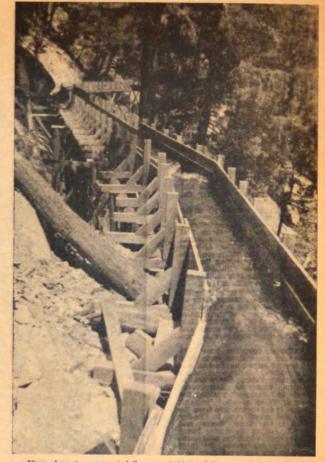
MODERN CAMP, EQUIPMENT AT BENTON MINE

An extensive development pro-fram costing many thousands of dollars is now nearing completion a the Benton mine, one of the larger quartz properties in Joseph-ind the Benton mine, one of the user the start of operations, ac-ording to W. Earl Greenough, res-ident manager. It is located on Whisky creek, two miles from the Rogue river by the Glendale road. The development started in the file of 1935 under Mr. Greenough's direction, assisted by Albert Burch ra crew of between 25 and 30 men-when construction work is com-pleted the property will be one of one buildings comprise the moment of between 25 and 30 workmen. They will have shower baths and there modern conveniences. The will have shower between at the modern conveniences. The met hand conveniences. The met hand conveniences are full fourpet for making repairs to the

strictly modern in every detail. The machine shops are fully equipped for making repairs to the mining machinery. The big, 40x80 foot warehouse provides storage space for supplies and provisions to last several months. Since last Sep-tember more than 200 truckloads of supplies, including 15,000 gallons of fuel oil, were trucked in to the camp. This is a precautionary measure tak-en because the road from Glendale sometimes is closed during unusual preventions and the series of the second term.



ted ditch on the Old Channel property which is operation. Several "giants" will be operated this Part of the newly constructed di being developed for large scale opera-year. Another picture is on page 12.



View of newly constructed flume at Gold Bond Placer, carrying water from the creek to be used in hydraulicking. The rugged country at this point gives the water considerable "fall."

open the year around some winters,

A modern electric plant has been installed to develop power, with a large Diesel engine operating the plant. The plant may be operated the year around even when shut in by snows and winter weather. A

be year around even when sher. A large quantity of powder, fuses and other supplies, in addition to fuel oil for operating several months, is kept in the big warehouse. During the past year from 20 to 30 men have been employed in de-velopment work on the property. About 25 men will be given employ-ment the year around when opera-tions start. Work on the new mill, with facilities for crushing and cyanide treatment, started last Sep-tember and is now nearing comple-tion.

tember and is now nearing comple-tion. An adit tunnel has been driven 1800 feet into the mountain beneath the older tunnels which were al-ready on the property. This work was started in November, 1935, and has been completed up to the point of contact with the ore bodies. The Benton mine differs from some of the others in this district, in that it is being developed and will be operated by the owners of the property, the Lewis investment company, Portland. Allen'& Lewis, formerly in the wholesale grocery

business, are the principal officers

in the company. The Benton mine has been oper-ated for some 35 years and much gold has been taken out of the prop-erty during that time, although It has been worked only on a small scale during the greater part of that time. Prior to the present develop-ment profram some 200 feet of tuntime. Prior to the p ment program some 2 nels had been driven

Whip—A bucket drawn up by means of a rope over a pulley, the rope being attached to a horse which moves straight forward.



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Association Formed Here to Promote Industry

STATE BUREAU IS SOUGHT TO HELP WITH PROJECTS

In an effort to present a unified front in fighting legislative battles and working out their common in-dustrial problems, miners and small mine investors of southern Oregon have formed the South-western Oregon Miners' associa-tion.

western Oregon Miners' associa-tion. Now in its infancy the organiza-tion was completed October 19, 1936. when a constitution was adopted and officers elected. R. E. Kelly, principal promoter of the or-ganization itself, was made presi-dent; J. R. Elder was elected vice-president. Pat Dineen, secretary, and Harold Locke treasurer. "The mining industry has been subject to unwise provisions in law that have retarded its develop-ment," said Mr. Elder. "Sound sug-gestions for improvement have been made but without the neces-sary force to put them into opera-tion."

advise proper procedure in de-ment. e group is attacking the state lien law, which it believes to neguitable and imposing un-sary burdens on the owner, ly retarding mine developeatly

Another law to be fought by the occitation is the one requiring the employment of a registered en-gineer in mines where four or more men are employed. At present there are about 175 active members and 100 associate members.

Stope—The workings of a mine between the levels assume the ap-pearance of steps or stopes, and the miners working at these are stop-ing or stepping. When they are overhead, like the underside pair of stairs, they are overhead stopes; when below the miner's feet they are underhard stopes.

Lode—To lead a vein of mineral different from the enclosing rock, a fissure or crack filled with mat-ter which may or may not be charged with metallic ore.

Gad — A wedge for splitting rocks.

'Mining In My Blood,' Says Native

(By Helen Turner Sparlin)

(By Helen Turner Sparlin) Perhaps no other woman in Jo-sephine county is a more faithful follower of the mining industry than Mrs. Grace Willmarth, who has been a resident of southern Oregon for many years. "Mining is in my blood", said Mrs. Willmarth a recent inderview at her home at 241 West H street. "It is not sur-prising that I should love it con-sidering that my father and broth-eried a man who also followed min-ing practically all his life as **a** means of livelihood".

means of livelihood". Mrs. Willmarth, who before her marriage was Emma Grace Castles, is a native daughter of Illinois, coming west with her parents, brothers and brothers were actively engaged in mining in Colorado and New Mexico. One brother, the only one now living, now makes his home in Grass Valley, Calif, where he still follows the mining industry. "Although I was only a child

industry. "Although I was only a child when we moved to New Mexico I can remember the hardships of those first few years", Mrs. Will-marth said. "My parents had ox teams and mules, as they were the principal means of transportation. Of course in those days there were no rail roads. Another feature of our early life in the state was the great scarcity of water." Following her martiage in New

To low early life in the state was the great scarcity of water." Following her marriage in New Mexico 45 years ago, Mrs. Will-marth took a keen interest in all her husband's mining activities. During their residence in New Mex-ico, part of that time being before that state was admitted to the the copper, gold and silver mines of Santa Fe county. It was not his first experience in the mining in Colorado when he first came west from Wisconsin, his native state. After spending 14 years in New Mexico, the Willmarths came to Oregon. living first in Medford and Gold Hill, after which they made their home on Grave creek at the Greenback mine. From there they went to Galice in the year 1915, and until his death nearly two years ago, Mr. Willmarth mined almost constantly. At one time he owned what was known as the Carleton mine, four miles from Ga-lice on the south fork of Galice creek. Wedge mines. as well as the Almeda.

Mrs. Willmarth owns the Gold Plate mine. which is located four and one half miles from Galice on the north fork of Galice creek. It is leased at present to William Rob-ertson and John Hampshire, Mrs. Willmarth stated. It has, in past years, been a very productive quartz property. For eight or ten years Mrs. Will-marth cooked for miners who worked for Harry Sordy at the Oriole and Golden Wedge mines. "I had from five to 11 men to cook for most of the time and I really enjoyed it. I always loved to hear

Like Magic!

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<text><text><text><text>

Zone—Name given to a belt of strata, and to groups of strata dis-tinguished by similarity of organic remains or mineral characteristics.

Sluice—A long trough with a loose riffled bottom. or bottoms with holes for the purpose of catching gold.

Splintery-Rocks that break into splinters or long sharp fragments are called splintery.



PAGE FIVE

Approximately \$40,000 was spent during 1936 in development work on the Plataurica mine, according to Fred Galino, resident manager. An average of 15 men were em-ployed operating the two "giants" and installing additional equip-ment a' the well known placer lo-cated near O'Brien.

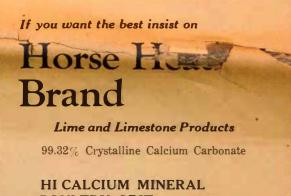
The mine is now owned and operated by the Waldo Placer com-pany which has installed new sluice boxes and ditches during the past year and is still adding new equipment.

past year and is still adding new equipment. The gold is caught in a concen-trating plant instead of using rif-fles, the most common method in use on placer properties. The con-centrating plant system has been used by dredges for many years but is something in the way of an experiment where placers are con-cerned. Mr. Galino stated. A 62-foot hydraulic elevator is used bo elevate the material to the plant after it is washed down from the bank by the large "giants." Two "giants" are operated in the pits and work will be started with a crew of 12 or 14 men as soon as weather conditions permit. There has not been sufficient water so far this year. The new mill is now set up and ready to go.

The Plataurica mine is one of the older mines in the country and has been a big producer in past years under various owners. The new plant and added equipment will make possible operating on a larger scale this year than in former years. scale years.

Eruptive—The name given to rocks that have burst through oth-er rocks in a molten state, or that have been thrust up bodily.

Dyke — A band of hard rock. usually igneous.



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Once 3500 Chinese Scoured Stream Beds

ALIENS WORKED IN **GROUPS AND NOT** ALONE AT MINES

No picture of early day mining formplete without mention of the print the Chinese played in the formplete without mention of the print sacrond Waldo and R. V. At second R. V. At second

which was the favorite gathering relace for the Chinese on state oc-casions. Mr. Lewis' earliest recollection on this subject is in the fall of 1972 when he visited Waldo during Chi-mese New Years. Not far from where the old Waldo store, built by A. B. McIlwain, still stands in a state of decay, were a row of Chinese huts built wall-to-wall and extending some 250 feet. Fire crackers were being fired in countless strings dan-fling from the roofs of the huts in elebration of the New Year. It was something of a spectacle to the white miners who stood about in groups watching the proceedings. The Chinamen had gathered at Wal-do from all the camps in the vicin-ity for the big event, which includ-de feasing and drinking as well as noise making. In his dealings with the Chinese Mr. Lewis found them honest and heard working. He declares that they would take out quantities of pold from places that had been rbandoned by the white men for richer and easier diggings. Mr. Lewis used to pack supplies to the miners over the rugged mountain trails and the Orientals were among his best customers, buying dhickens.

its and the Orientals were and best customers, buying chicked con, pork and other foodstuffs ge quantities. We of the Chinese remain g in any pocality, and which the chinese remain g in any pocality, and which the chinese remains to actemin beight their numbers of increases of increases of the second s

Ancient water wheel used back in the seventies by the C unese miners. Many Chinese mining companies had equipment of this type on the old Althouse and other streams in the Ker yville and Waldo districts.

time and then qu'etly disappear b be replaced by other Chinamen. It was presumed that they took their gold and returned to China to live life of case. This was true of the leaders of the groups as well as the extension workars. The Chinese borses, who did not work them-selves, took a generous portion of the gold each gang member pro-duced. Some of the white miners were antigonistic to the Chinese and ok delight in making trouble for hom. Dissolute whites frequently orbed the Chinamen's sluice boxes and otherwise abused them, though they had equal rights and were en-titled to the law's protection the same as the other settlers. A case is on record where in 1860 Le Hang a Chinama who was act-ing a assistant Chinese tax collector under Sheriff James Hendershot. We accould on the sway from Alt-bouse creek to the sheriff's resi-dence. The two one whipped bir-

streams in the Ker yville and Waldo county and though he later filed a bill in an effort to have it refunded to him he was never reimbursed, according to the records. The let-ter Hendershot wrote to the county commissioners, after his term of the riff expired, is still on record. It reads as follows: "You will take notice that the un-devsigned designs taking appeal from their the county commis-sioners' erroneous decision in re-gard to the bill presented to them December 4. 1860, praying to be reinvoursed for moneys paid by him to the county, which bill is on file in the archives of the fast decaying county of Josephine. (Signed) James Hendershot" In the late eighteen-nineties, when easy gold along the creeks be-an to play out, the Chinese began to decrease in numbers rapidly. They were never driven out, how-ever, as some contend they were. M. Lewis Galars. About this time road building was under way in many parts of the county, and many Chinese of the county, and many Chinese of the county, and many Chinese of the county and many ch

"boott whis time road building was nder way in miny parts of the outry and many Chinese of the rews, working long and hard for small emount of mon-sy. A num-er of Chinese were employed in uilding the road from Gasquet-ear Crescent City to Waldo, a dis-ance of about 70 miles. One of the best known Chinese haracters of the time was China bow, an Americanized Oriental cho operated a pack train. He wore o cue and thought that mining was eneath him. a pursuit fit only for he cooly class. China Bow con-ribuited to the development of Jo-phine courty mines, however, by tacking in the first heavy equip-nent for hydraulic projects on va-

rious large operations. Several of the first "giants" used in placer mining were brought by muleback from Crescent City via Bows pack train

Another famous packer was a Mexican named Martinez who also brought in mining equipment and supplies from the coast. Martinez, though small and slight of stature, could lift huge barrels of sugar and flour onto his mules and pack a train as quickly as any expert of the time.

time. Whim—A drum with a vertical axis, with rope attached, worked by a horse, for hoisting purposes from mines.

mines. Winds or Winze — A small shaft sunk or raised from one level to another underground.

Trace—To follow the ledge on the surface and to lay it open by long pits.

long pits. Level—Name given to a drift or adit underground along the course of a lode. Horse — The dead or barren ground by which a lode is some-times cut in two.

Wall of a Lode-See "Hanging-wall" and "Foot-wall."

Gang or Gangue-The non-me-tallic material filling lodes.

Rise—To work from the level up-ward.

Argilaceous-Clayey.

The Clean-up

Like other miners. we dig in the dirt for our pay. We use special machinery, tumblers, etc., and what we recover is of great value to our customers.

More seriously speaking, our scientific meth-od of washing clothes is as superior to pioneer hand washing methods as modern mining is to pioneer methods.

The health of your family depends so much upon the positive elimination of Bacteria. Send your washings to the laundry for your cheapest health in urance.



ing how the Chinese once worked along the streams and old river chan-osephine county. Back in 1870 and several years following there were a 500 Chinese in the county. They were "matel" miners and could take in "diggings" which had been abandoned by while men.

Wong You, Oriental, Uses Modern Methods

FAMILY ASSISTS IN OPERATION AT FINLEY BEND SITE

Dragging the gold to the sluice is the plan on which southern Oregon's ly Chinese miner is operating his operty on the gravel bar just be-w Finley Bend on Rogue river, yout nine miles west of Grantr

where once thousands of Orientals Where once thousands of Orientals rked along the streams of this trict in the gold boom days of f to three-quarters of a century only the one family is now min-there. Until last March, when mg You, former restaurant oper-ming You, former restaurant oper-ming from California there had en no Chinese miners here for reral decades. Vong, assisted by his two hove

Tamily from California there had been no Chinese miners here for several decades. Wong assisted by his two boys, Benson and Frank, installed his 'patch-work" drag line outift in March of 1936 and until three months ago operated at a good pro-tit. For the past three months the mine has been closed while repairs, alterations and improvements are being made. An eight-cylinder automobile en-gine powers the huge winch that pulls the gravel from the bar 200 feet away. The gravel is dragged in a V-shaped bucket to the sluices. Pulled up a steep incline to a large hopper directly over the sluices, the gravel is dumped and the large rocks separated from it. The rest of the gravel tumbles down into the sluice boxes and is washed in the usual manner, except that like nearly every other miner, Wong You has some ideas of his own in the sluices. For the first 10 feet the gravel is washed over steel plates. Then for 25 feet there are six layers of dif-ferent sized screen. The screens are lid over burlap, and under that is a canvas. Next are layers of steel grid. At the end of the screen portion

t the end of the screen portion he sluices there is a cut-out into ther set of sluices built especial-o receive and hold the fine gold black sand. In this set is three re of fine screen with layers of

Water is supplied by a six-inch water is supplied by a six-inch emitting pump, powered by a six-horse auto engine. This was to market built at the river bank, but the dancer of rising water threatening to wash the machinery down siteam has caused Wong You threatening to wash the machinery down siteam has caused Wong You threatening to wash the machinery down siteam has caused Wong You threatening to wash the machinery down siteam has caused wong You himself and his two boys. They move an average of about 200 yards per day, he said, and the gravel av-erages 25 to 30 cents per yard in gold dust.

Ages to Working the second sec

Dixie. Wong's family were pioneer min-ers in the Yreka district. The company was the Kee Hong com-pany. Wong himself mined there before coming to Grants Pass in 1918 Here he was in the restaurant business until 1925.

MANY MINES IN TAKILMA REGION

The Plataurica and Esterly mines are two of the largest operations in he district around Takilma, where E. H. Messenger has been postmas-ter and merchant for a number of vears. A third hydraulic operation in the vicinity, somewhat smaller, is the W. M. Dillenbeck placer mine, employing a crew of three or our men who hydraulic the mater-al to a quartz mill and run it hrough.

hrougn. Some of the giants are working in the Waldo district, about two miles from the Takilma store, but water is still insufficient in most

miles from the Takilma store, but water is still insufficient in most places. There are about 35 independent miners working in the neighbor-hood with hand tools. The dry spell and freezing weather kept the min-era from doing any real work so far this season, Mr. Messenger re-

ports. Last year was one of the best on record, there being plenty of rainfall and mild weather. Gold was first discovered in the district at Waldo in 1851. It was then known as Sailor Diggings. so called because sailors first found gold there, leaving their ship to follow the streams inland from the coast.

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TRACTORS USED TO BLAZE TRAIL **TO BAKER MINES**

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Chinese mining operations may still be found in Josephine county. Wong You and his two sons are getting ready to resume operations on the Rogue river near Finley Bend. Photo shows hopper to which Wong hoists the material, the hoist being operated by an old Packard engine. A smaller engine pumps water from the river, the gravel is washed and passes into the sluice on other side of hopper where a series of different types of riffles extract the fines. Wong's eldest son is shown on top of the elevated hopper, Wong himself below.



View of hoist and automobile engine which operates it at Wong You's mine. Wong's eldest son is shown beside the hoist which pulls the V-shaped bucket with its load of material to the hopper where it is washed, to be passed into the sluices and over the riffles.

and over the riffles. Cornucopia road is closed to cars as far as Carson. From Carson to Halfway the road is kept open. C. E. Worthington, superinten-dent of the Ben Harrison mine in the extremely high mountains slove Greanite, probably has the most glganit task of them all in keeping his roads open for shipping ore. A tractor has done the job well the past two winters, with concentrates shipped from the mill which turns out approximately 100 tons a day. Between 35 and 50 men are working there. W. Cellows at the Record mine the sinking of a shaft, for the cold weather and freezing of the water supply necessitated the closing of the mill. W. H. Cullers. Portland. makes fey and dredge operation hear Sumpter, the largest in the North-west, theory operation has been mintained with the exception of minor repair work, since work started June 29, 1935. Twenty-three meno operate the dredge. John A. Arthur, manager of the balm Creek mine. is hipping both concentrates and crube one to the tacoma smelter. Abut 60 men work there.

First Mining Code Drawn

The first mining district in Ore-gon was organized at Sailor Dig-gins, now Waldo, in Josephine county. Sailors who deserted ship at Cres-

cent City discovered gold. They and those who followed organized the first mining district and drew up the first mining code in the ter-ritory of Oregon. It follows: "Know all men by thesse pre-sents: "That we the miners of the Wal-do and Althouse in Oregon Terri-tory, being in convention assembled for the purpose of making rules and regulations to govern this camp. "Resolved, 1st. That 50 cuble yards shall constitute a claim on the bed of the creek extending to him water on each side. "Resolved, 1st. That 50 cuble wards shall constitute a claim on the bed of the creek extending to him water on each side. "Resolved. Ard. That 40 feet shall constitute a bank or bar claim on the face extending back to the hill or mountain. "Resolved. 4th. That all claims not worked when workable, after five days be forfeited or jump-able. "Peolved. 4th. That all disputes arising from mining claims shall be extend by arbitration, and the dee-cision shall be final. "E. J. NORTHCUTT. Chairman."

Anticlimal-When strata dip away from each other.

Dip-The slope or inclination of a lode or bed from a horizontal line.

Auriferous-Containing geld. Arrestra-Mill for grinding or e (Spanish term.)

Bedrock---The strata underlying loose or drifted matter.

Drift-A tunnel driven from one part of the mine to another.

JANUARY 27, 193

The So. Oregon Miners' Association

NOT ONLY ENDORSES THIS BIRTHDAY BALL BUT IN ORDER THAT THIS DANCE BE MORE SUCCESSFUL THIS ORGANIZATION HAS CAN-CELLED THE "MINERS' DANCE," THE CLOSING EVENT OF THE FIRST ANNUAL MINING SHOW. EVERYONE IS URGED TO BUY A TICKET TO HELP THIS GREAT WORK TO DO EVERY-THING POSSIBLE THAT THIS MAY BE THE SUCCESS EVERYONE WISHES IT WILL BE ALL WHO ATTEND THE FIRST ANNUAL MINING SHOW ARE INVITED TO BE PRESENT AT THE



FAIRGROUNDS Sponsored by the BE SURE TO

11r 10

the President's Birthday Ball



All Proceeds Go to the Assistance of Those Who Suffer From the Effects of Infantile Paralysis.

Saturday, Jan. 30 ACTIVE CLUB DO YOUR PART

PAGE TEN

JANUARY 27, 1937

Local Chrome Being Mined for Practical Test

RESULT TO TELL IF FOREIGN ORE Harassed CAN BE REPLACED By Indians

Southern Oregon's deposits of chromite--the metal which makes stainless steel and streamlined rains possible--are being tested to determine their availability and cost of production. To make the inves-tigation practical, actual mining is now under way. Bouthern Oregon and northern California contain considerable de-posits of chromite, usually occur-ring in small amounts of high grade ore and sometimes in large amounts of low grade chromite mount the hurdle of foreign pro-duction. Gigantic deposits of chrom te in Southern Rhodesis and New. Caledonia have lowered the price of imported ore so that only the highest grade American ore can compete, while new discoveries have been made in Brazil and the Philip-pines. In addition, local chrome faces

been made in Brazil and the Philip-pines. In addition, local chrome faces competition of deposits in eastern Oregon, Washington, central Cali-fornia, Montana, Peunsylvania, Newfoundland and Quebec should var boom the prices by shutting off the foreign deposits and create a new large market by its use in mu-nitions. Central California chrome is now on the market and is being "tested." The answer to the question of

Initions. Central Cantorna circuit, is now on the market and is being "tested." The answer to the question of whether local chrome may be prof-itably mined, probably lies with the Rustless Iron and Steel Corporation of Baltimore. Md. one of the three largest consumers of chromite. Personal interest taken by C. E. Tuttle, chairman of Rustless Iron and Steel accounts for the test de-velopment now taking place. In late November. 1936, when the mining was first revealed. five men være then at work on a location described as within 75 miles of Gran's Pass, producing ore at the rate of 20 tons a day. Shipping by way of Grants Pass, is to start in the Spring of 1937, and work is planned at two other locations. Tuttle had then purchased 300 tons and taken options on 12.000 Rustless Iron and Steel is not itself financing or directing the work.

itself financing or directing the work. The corporations officers had for years heard of the deposits in the Grants Pace, territory. They knew that for the start of the start of the man event of the start of the start were shart as \$50 or \$60 a ton. But they also understood that the deposits could not be profitably be mined in competition with foreign ore, which is now laid down a Balti-more for approximately \$18 a ton. far below the war-time boom prices.

far below the war-time boom prices. Mr. Tuttle, however, on one of his pericdic trips to the west coast, heard more about the territory and decided to investigate. He finally became convinced that prospects warraned an extual test to deter-mine cost of mining, shipment, and quality of the ore. Should investigations show some future for the deposits, he then proposed to turn over his personal holdings to the company at cost. Various factors will determine the final result. Costs must include that of actual

the final result. Costs must include that of actual reining of the ore. That now being taken out occurs in "ikidneys." chrcme deposits surounded by other reck. Medium ore, which may be concentrated and is found in greater amounts, is also being tested.

greater amounts, is also te ted. Trucking to railroad incri-cost, and then rail or boat. In to the plant adds great overhead. It was estin pment east would approxi or \$12 a ton, a large percet the \$18 base. A final check-up is made it int liself. Although ores approximately the same s

ant itself. Although ores as approximately the same. nes one proves far different other in actual use Thus the final answer to restion of profitable minin, r present conditions will re e companies furnaces of pre.

ould the cost be only e that of imported of investment and deve

The attitude of those making out which may determine we other large mining industry developed here seems to We're in no hurry, but we we ready."

Old Timers

Never has the life of the gold seeker been a bed of roses, and history is crammed with tales of hardships, trials and tribulations met by the lusty men who have moved frontiers in search of the rollow model.

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1000mm George Washington Meservey, whose father, Captain Meservey, played a prominent part in the Indian wars. Mr. Meservey's mother belonged to the Chency Indian tribe. He was born in this section and has been postmaster at Illahe many

the site of the new forestry sus-pension bridge. Meservey's son, G. W. Meser-

vey, is now the elderly postmaster at Illahe near Agness in Curry (Continued on page 14)

COMING TO THE BIG MINING SHOW?

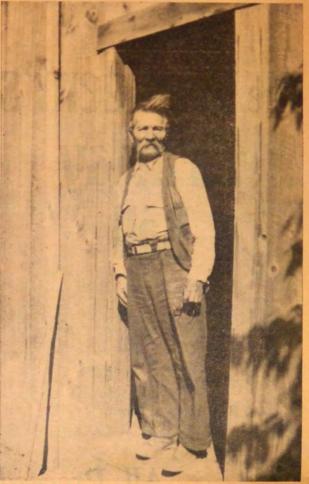
Then of course you're coming to our store.

Just to make you want to come, and to have you get acquainted with the hundreds and hundreds of things we carry in stock that you can use whether you're a miner, farmer, cattle raiser, woodsman or town dweller, we offer a few

TWO DAY SPECIALS

Friday and Saturday, January 29 and 30 only:

cound being ship- ly to nated imate mtage	ALUMINUM TEAKETTLE 5 quart, regular 89c value 69c	GRAY GRANITE COFFEEPOT 6-cup size, regular 39c value 29c	
n the may some- from the g un- est in Balti-	STEEL SPIDER 10 ¹ ₄ inch, tin covered cool handle 29c	TUMBLERS 9 oz. green or crystal Each 9c	
ightly then con- pment posits of the	DINNERPLATES White, 9-inch Each 9c	CUPS AND SAUCERS White—Ovide or St. Dennis shape Pair 9c	
of the nonved lower- te un- e dam he the hether y will to be, ant to	We give S & H Green Stamps Newell Wright, Owner Opposite Daily Courier		



PAGE ELEVEN



Years ago mining and lumbering were the only industries...then years during which "promoters" by their work halted genuine mining progress... and now conservative, well managed. sound business methods have again brought to this community a valuable, increasing business, recognized as the outstanding reason for business increase and development....This mining business is the merchants business and we participate most willingly in this First Annual Display.

The Rogue River Hardware Offers a Page of Special Values!

Additional reason for attending the First Annual Mining Display. Grants Pass is a Good Place to Trade and here are a few mighty good reasons:

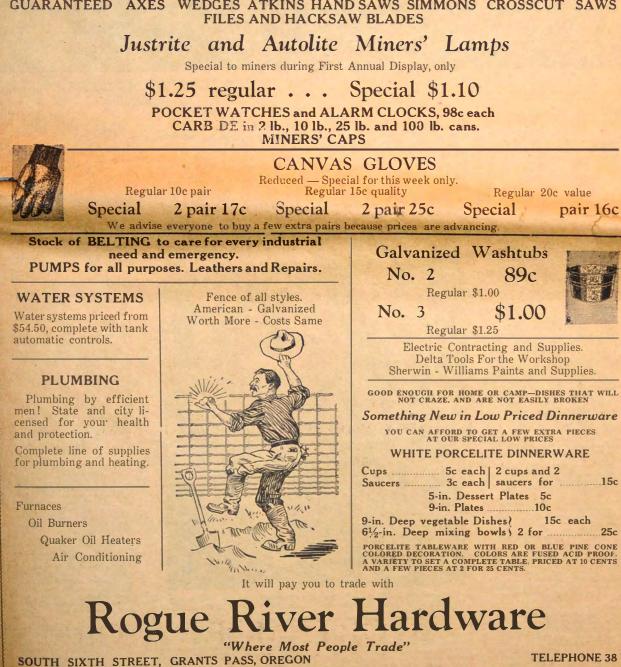
We carry the most complete assortment and largest stock of pipe and pipe fittings in Southern Oregon. Sizes 1,5 inch to 6 inches. Also valves for steam, air, hot and cold water.

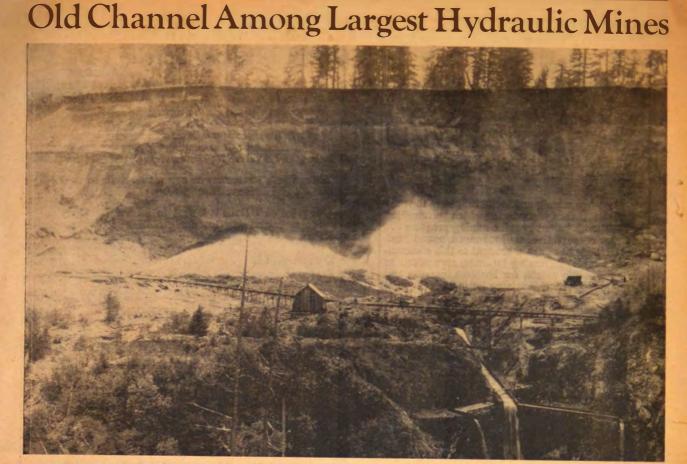
We can save you money on new pipe—made by National Tube Co. (a United States Steel product).

Our price on T Rails is lowest in all the Northwest — junk houses included. Get our quotations before placing any orders.

DYNAMITE CAPS FUSE STANLEY SHOVELS PROSPECTORS' PICKS GOLD PANS — 25c and 60c SLUICE BOX SCREEN

JOSHUA HENDY MINE CARS GIANTS GASKET LEATHER AND REPAIRS WIRE ROPE CABLE CHAIN CROWBARS WRECKING BARS BOLTS TRACK SPIKES STEEL BARS ANGLES SHEET STEEL CORRUGATED ROOFING SLEDGE HAMMERS STONE HAMMERS NAIL HAMMERS GUARANTEED AXES WEDGES ATKINS HAND SAWS SIMMONS CROSSCUT SAWS FILES AND HACKSAW BLADES





Showing operations at the Old Channel mine, with two "giants" trained on the base of the gravel bank. This breaks down the bank by undermining it below, allow ing the material to wash into the sluice which may be seen in the right foreground. The "fines" are caught by the riffles and the coarse material passes on and down the fall. The elevated pipe line carrying the water to the "giants" may also be seen.

OPERATION HIGH ABOVE RIVER BED

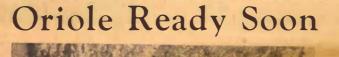
rom the stndpoint of ditch ca-ity, the pressure under which the er is used and the size of the osit the Old Channel mine in Galice district, 500 feet above Buse in or bobably ranks as of the largest hydraulic opera-is in the United States. A. R. Guire is the present operator, mine was formerly owned and rated by J. R. Harvey who still ins an interest in it. ehabilitation work was started

tains an interest in it. Rehabilitation work was started ay 15. 1936, with a peak crew of out 75 men. The average number men employed on the operating ew is 20. More than \$50.000 has en spent in new equipment and e mine is now ready for operation a large scale. The property has en worked in a smaller way since 30 when the first high-line ditch so built.

when the first high-line ditch s built. 'ast operations have removed vel from some 60 acres of bed-k and from early times to the sent from 10 to 30 men have been e to make a living by 'sniping' old bedrock. When Mr. Mc-rie took over the property 28 aple were teking out, small ounts of gold in this fashion. 'he property, which covers some acres, is from one-half to one-lf miles in length. It as bisected the north fork of Galice creek. e rim of the bedrock of this an-t river channel was discovered the early '60s. In its present rehabilitated state e mine has some ten miles of mpletely cleaned and widened ch with all new flumes. The ch capacity is 125 second feet of ter. At the end of the ditch, ich is 501 feet above bedrock, are o reservoirs. Two pipe lines

h is 510 feet above bedrock, are reservoirs. Two pipe lines e the three high-pressure, dy giants. ist operations have proven the rel to be from 400 to 2000 feet ridth and from 70 to 225 feet in th. Most geologists agree that present deposit is just a remain-fraction of an ancient river anel which at one time extended h and south at least 400 miles was not less than four miles in th.

and was not less than four miles in From a physical standpoint the property has all the prerequialtes of a low cost hydraulic operation. Evosion of later days has provided precipious cross channels, 200 feet or more in depth, into which the gravel is dumped after the values have been extracted. The first mining on the property was started about 1860 and not a quarter of it is worked out yet, ac-





Miners with air drill one of the tunnels at the Oriole mine, one of the import-quartz properties in the Galice district. The mine is owned by Harry Sordy is being operated under a lease by Charles Benson and Ben Thomas. Several usand dollars have been spent during the past year in new equipment.

ording to the opinion of various nining engineers. A colorful history surrounds the arly working of the mine. The irst miners who ventured on the coperty worked with pick and hovel. This was followed by a

with carvas hose, water being used under pressure for the first time. The first bydraulic plant was brought in by pack train from Crescent City over 125 miles of rough mountain trails. The man-

NEW EQUIPMENT AT ORIOLE MINE

The past year in a program of development which is now nearing completion. The property is under lease to Charles Benson and Ben Thomas who expect to have the mill ready for operation within a week or ten days. Mr. Sordy stated. The mine has previously been operated by water power during the season when sufficient water was available. In the future it will be possible to operate continuously. A 125 horse power Diesel engine durinsking the power during the dry season. New equipment also includes a ball mill, flotation plant. classifier, large water tank and a new pumping system. Twenty-five men were employ-ed during the past year in prepar-ing the property for operation, Water will be delivered to the scene of operation from Rocky Guich creek by 300 foot pipe line. constructed of 11-inch pipe having a fall of 350 feet. The construction and installation of new equipment started in January, 1935, with a crew of 25 men. When operations, tart a crew df only 15 will be re-nuired. f 25 men. When operations crew df only 15 will be re-

ed. odern living quarters have a constructed at the camp with using capacity of 30 men. The p of buildings include a power ie saw mill, machine shop, as-rooms, drafting offices, dining and bunk houses. e property has four levels of urground sector

houses. , y has four levels of vorkings with a total f tunnels, drifts and chutes. ore chutes. have been extended ody handling of the derground w 3500 feet of utes, timber

ince the first operation of the perty it is estimated that ap-kimately \$150,000 has been in-ied and \$36,000 worth of high-le ore taken out and shipped to oma for smelting. The property prises 14 claims.

el on which the pipe was riveted still at the property embedded in oak tree about 36 inches in diam-er. The mandrel apparently was uck into the tree when the big k was but a sapling. Indians interfered with opera-ons in those early days and a fort (Continued on page 14)

Boom in Copper Prices to Revive Operations

Trated on the production of hand-were easily accessible. No sys tematic development work was at-tempted and no equipment installed for treatment of lower grade ores prior to the start of operations by the Queen of Bronze Mining com-point of the start of operations of the start of operations of the superstant of the start of operators aggregated approximately \$150,-00, all of which was mined from a small area to no greater depth thas 20 feet at any point of the prop-erty. The ore at this depth is en-tirely in sulphides. The property has not been worked since 18% but the officers are contemplating start of opera-tions again at an early date with a dequipment program which will acquire an expenditure of close to to;5,00.

\$75,000. John Hampshire, Grants Pass. is president of the company; Philip Twohy, Spokane, is vice-president, and E. P. Twohy, Spokane. is sec-retary and treasurer. Directors are James F. Twohy, Portland; R. H. Clarke, Oakland; J. V. Pohlman, Spokane, and Edward, Pohlman, Spokane. The controlling interest is held by the Twohy brothers. The company is incorporated un-der the laws of Washington and the

headquarters are at Spokane. Pres-ent equipment consists of adequate buildings, two compressors, black-smith shops and other mine equip-ment. During past operations the nearest shipping point was Waters Creek, a distance of 27 miles by the Redwood highway. The ore was shipped to the Tacoma smeller for treatment. Better transportation facilities are contemplated in the new development plan, details of which are not ready for announce-ment.

GENE GOFF HAS STOVEPIPE LEASE

Anticipating a most successful year of operation under the man-agement of Gene Goff of Grants Pass, Rebert Burns, owner of the Stovepipe mine, says he has instal-led considerable new equipment and is "ready to go" as soon as water is available. The Stovepipe mine, a well known producer in past years, is located near Leland on Brimstone creek, a tributary of Grave creek. Mr. Burns has owned the property

since May, 1931. having purchased it soon after coming to Grants Pass from Oklahoma where he had been intermed in the oil business for

since way, issi, having purchased from Oklahoma where he had been form Oklahoma where he had been on the off in the old painting method. He has gradually installed hew equipment and during the past year has completed a pipe-line to deliver waker from Entimatione treek some 1500 feet to an eleva-tion of 190 feet. Using a 120 horse power Fairbanks Morse engine and a 5-inch Morse centrifugal pump. Mr. Burns has taken out approch-meter waker from Entimatione treek some 1500 feet to an eleva-tion of 190 feet. Using a 120 horse power Fairbanks Morse engine and a 5-inch Morse centrifugal pump. Mr. Burns has taken out approch-meter of the source of the source of the other waker from the property which consists of throm John and Sam Alderson. Othef owners who have operated the mine include Mark DeVall, and Phil Kelly. The latter located the mine about 30 years ago and work-ed it by hand for several years, Some very large nuggets have been taken from the property from time to time. A picture of one of these arge nuggets is shown elsewhere in these pages. Muldozer is now at work on the property breaking down the property breaking down the property breaking down the source in preparation for hydrau-liced.

Rapid recovery of copper prices recent months and the high ice of gold often found locally th copper are leading to plans r reopening of mines here.

ITS PROPERT

OUFEN OF BRONZE

PLANS ON OPENING

Copper has reached the 12-cent mark, the highest price in over six years, and a point at which produc-tion has previously carried on

here. Reorganization plans are now in the preliminary stage for resuming operations at the Queen of Bronze group of copper-gold mines, known individually as the 'Queen', ''Cow-boy and ''East Cowboy'', comprising a total of some 1500 acres of ground. The property is located mear Taklima, 40 miles southwest of Grants Pass. Operations were first commenced

Operations were first commenced in 1904 and have since been con-ducted intermittently by various owners and leasers who concen-

AII Prices



Claims May Be Filed on National Forest Land

MINERS PRAISED FOR ROAD WORK, FIGHTING BLAZES

By G. E. Mitchell Supervisor, Siskiyou Nat'l. Forest

Supervisor, Siskiyou Nati, Forest Prospecting and mining on the national forests is permitted the same as on other unentered gov-ernment lands. The same mining laws apply, and so far as the miner is concerned, he experiences no dif-ference in administration for leg-itimate operations.

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miner. because he is not interested other values. Regulation L-18 states:

<text><text><text>

THE QUICK LUNCH **G** Street

Where you find a good meal, at a price you like to pay.

Something extra nice for all the folks during the First Annual Mining Show

"We'll be seeing you!"

Mr. and Mrs. Roy Loh munication regarding forest activi-ties, prospectors and miners have been the pioneers of the national forest areas, especially in southern

INDIANS RAIDED EARLY MINERS

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Jose, Curry county volunteers were authorized to round up small bands in the mountains. Finally, on July 2, 1858, Captain Meservey, in com-mand then of the Gold Beach vol-unteers, wrote the adjutant gen-eral of Oregon: "The last of the red men have been captured and shot, only wom-en and children spared, and they are en route for the serve. All further apprehension of danger is at an end, and this portion of Ore-gon will rest in tranquility." That is only one series of epi-sodes in which miners took part, for in almost all the volunteer companies were miners who had left their properties to war against the redskins.

OPERATION HIGH **ABOVE RIVER BED**

(Continued from page 12) was built nearby on what is known as Gamblers Bar. History and legend are interwoven into a color-ful pattern of dramatic incidents dealing with Indian warfare, cul-minating in a peace effected through an Indian woman known as Indian Mary.

bugh an Indian wonten naver-ian Mary. ndian Mary, who died only a few Indian guide, called Joe, who is friendly to the whites. She mar-ried a Warm Springs, California, ian named Peco, who quarreled h Mary's father. The two fought uel and the shots they exchanged ulted in the death of both. Indian ry later married another Indian i lived peacably among the ites until her death. a duel and the shots th resulted in the death of Mary later married an and lived peacably whites until her death.

Fault-A line of disturbance or dislocation in strata.

Flour Gold—The finest drift of gold.

Flume-An artificial water course at hydraulic mines.

Foot-wall-The under wall of a lode.

Galena-Sulphide of lead.

\$26,000 SPENT IN YEAR'S RUN AT OSCAR CREEK

A somewhat different type of placer operation is found in the dry and dredge at the Oscar Creek journed and operated by A. M. Stur-towned and operated by A. M. Stur-towned and operated by A. M. Stur-extrement consists of one of the start of the star

ten hours each, three men if three shifts a day. Less water is required for this type of placer mining than in the hydraulic method. The water that is required comes from the natural watershed of the district. About 1000 to 1200 gallons of water a min-ute are used in running the plant. The equipment has been in its present location at the Oscar Creek mine about one year, most of the work being merely development op-erations and test runs. The two operators are now prepared to pro-ceed at high speed and expect to take out considerable gold with the present set-up. Indications are that several years work lies ahead with-out moting far from the present lo-cation.

cation. A large item in overhead in dry land dredging of this character is electric power to operate the ma-chinery and flood lights. The power is purchased from the California Oregon Power company. The plant, is designed, however, to handle a large amount of material with great speed.

speed. During the year of operative sowners have spent \$4000 for trepts shipments (rail and truck lines) and \$15,000 for machinery, making a total expenditure of approximately \$26,000. The above choice

Sisted expenditure of approximately sector. The above photograph, looking dwn into the cut, shows a view of the plant from the bank. The of-tice, tool shed and shop, not shown in the pictures, are on top of the bank and some little distance back and a growth of trees. The Bishop was formerly a con-tractor and Mr. Sturtevant has fol-lowed mining for some years. Both are comparative newcomers to Grants Pass. Steveral other operators have worked the Oscar Creek mine in party years although prior to the present development there was no major operation there since the Bolton Brothers worked it with have yequipment about three years are steam shovel and plant some-what similar to that now on the stabut year. Between major operations various minividuals have taken gold from the property in small quantilies.

BIG SILICA MINE UNDER OPERATION

Termed by engineers one of the purest ledges of silica in the Unit-ed States. a huge deposit is now of Grants Pass about 15 miles. The property is owned by Charles Snider. Glenn McKy and Jim Havens, and has been leased to W. B. Sullivan. For some time Mr. Sullivan has been engaged in distributing agri-cultural lime from the Gold Hill cement plant. Now he has begun in-stalling machinery at the Hugo property to take out quantities of use silica, to be ground on the site and distributed over the state. The silica is used as chicken grit to harden steel, and the whitest is used in white plaster.

to harden steel, and the whitest is used in white plaster. The ledge is about one half mile long, 20 feet wide, and possibly 100 feet deep. Snider and his associ-ates shipped about seven cars a year to Portland to be used in tem-pering steel and as chicken grit. Shiphide A combinations of a metal with sulphur.

PAGE FIFTEEN

State School Here Gives Practical Pointers

MANY SUBJECTS TAUGHT, QUERIES GIVEN ANSWERS

Designed to educate Oregonians to the fact that they live in a state of great potential mining develop-ment from its natural mineral wealth, the extent of which even those living in the mining region were not fully aware. Governor Martin secured with WPA backing a mining school at Grants Pass in the fall of 1935.

Martin secured with WPA backing a mining school at Grant Pass in the fall of 1935. The immediate purposes of the inique project were to provide an agency for supplying information to prospectors and miners, to assist in showing new methods of miner-al recovery and, at the same time, to test these methods as well as the school of the school WPA foreiget was to clear parts of the arended drive for increased metal uotupt, especially preclous metals. The first work of the school WPA project was to clear parts of the osephine county fairgrounds and emodel some of the building. The mines building was remod-field to serve as headquarters for the school and the Agricultural building was remod-ded to serve as headquarters for the school and the Agricultural building was remod-tiles constructed. The mines building on January 5, 1936. These classes continued until about March first. In the meantime, day classes were inaug-rulased at the fairgrounds. These classes continued until May 14, 1936, when the school was closed for the sumer. Instructors, and the classes, they

summer. Instructors and the classes they taught included: Karl Ladewig, su-perintendent; Fred Green, placer methods and sniping methods; James Smith, mine timbering; Tom Brinkerhoff, mine blacksmithing;



View of "dry land dredge" at Oscar Creek mine, operated by Sturtevant and Bishop, showing feeder which carries material excavated by Marion electric shovel to revolving screens which sort it before it passes over gold saving devices.

W. B. Beckley, simplified geology, and technical geology: A. Thomas, cyanidation; E. Derwent, and Wins-ton Purvine, assistant, chemistry and assaying. Lateg in the year E. C. Alford was secured to conduct lectures on geology. The present term of the school opened about the first of October in the fall of 1936, with Winston D. Purvine, former assisctant superin tendent, as superintendent. Classes were held in the high school on three nights each week, and at the fairgrounds during the day. The classes conducted at the fairgrounds

are on a very informal basis with which of the work being consulta-tion on the problems of individual prospects or mines. Models of mill machinery and devices have been made by students. These models in-clude a model cyanide plant, amal-gamation table, jig concentrator, and others. Subjects that have been discussed problems of recovery of metals from their ores; geological forma-tions of Josephine county; elemen-tary chemistry; ore testing meth-ods of chemical nature; outline of hadro rock mining methods; and a course on gem materials and crys-tals being given by popular re-quest.

During the present term of the juntary, as the small WPA project is voluntary, as the small WPA project is not connected with the class work An attendance of from 50 to 60 per week indicates considerable interest in the material being presented. The individuals coming several regular attenders, are persons who come in from mining protects to gain some definite information on a problem. These problem some the several regular attenders are persons who come in from mining protects to gain some definite information on a problem. These problem some of the several regular attenders are persons who come in from mining protects to gain some definite information on a problem. These problem some of the several to grind certain or a group of the several protects to generate a small cale place.



Automobile axles weaken if reheated for straighten-ing. We true axles "Cold" in the car saving labor and doing the work precisely accurate with special lools.



ACKNOWLEDGEMENT:

Doris M. Hayden

Pen and Ink Sketch; front cover page, sec-tion two.

Helen Turner Sparlin

Interviews with women connected with mining industry.

Gordon Brainerd

Whose photographs of many mining scenes are in this edition.

W.O. Silverthorn

Special writer of many mining stories in this edition.

Leslie Shaw

Member regular staff of Courier who. by extra hours assisted with mining stories and interviews.

Phil Brainerd

Whose great number of additional hours in the Photo-Engraving department made many of the special engravings possible.

V. Ward Hammond

By whose co-operation it was possible to co-ordinate the vast amount of data used herein.

To the hundreds of residents of Josephine County who so willingly helped with information regarding the actual facts of mining in this section of Oregon.



View of equiPment set up at fairgrounds by Winston D. Purvine, superin-tendent of the mining school, for testing riftle efficiency. Center front shows 12-Inch tailing stutce. Farther back may be seen feeder bin and tronumel screen, with motor and pumphouse on the right.

Tests Made to Show Which Riffles Will Save Most Gold

A test of riffle efficency is being conducted by the State Mining School at Grants Pass. The tests are particularly concerned as to the elative efficiency in fine gold re-

auve efficiency in fine gold Fe-rery. The work of elevating material a operation of the trommel-teen is being done by four WPA arkers. The bank material is load-into wheelbarrows. pushed up incline and dumped into a feedy box. Here the material is fed to a trommel screen, the oversize found and the fine material sent found six-inch siulce boxes. A mitrifucal pump run by a gaso-te motor provides 2800 gallons of the part box to shure the anda.

The outfit set up at the end of Sourdough gulch runs about six yards of material per day. At the end of each test the arrangement of the various riffles is changed so that the comparative efficiency may be determined. The concen-tration of the test is changed so that a combination of riffles rath-er source of the tests have been such that a combination of riffles rath-er than a single one will likely prove best for the tests will bubBle when completed. The project which is thought to be the only one of its kind, is at york on all WPA work days and is open to the public.

THIS LIST OF "GOOD THINGS TO EAT" IS FROM MAC'S MARKETS—

Whether you read this in camp....as you prepare your "grub stake"..... or are "just wondering what 'cookie' will set out next" (and this also applies to you folks whose knowledge of mining is gained from "what the other fellow says.") It has been and will always continue to be our policy to sell you only the best quality food stuffs at the lowest prices possible. Come in—get acquainted with our markets and let us get acquainted with you.

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