

Virtue Dist  
Aug ✓

Baker Co

Mining & Contract. Review ~~Jan. 11~~ 1938

Baker County

The first carload shipment is expected early in August from the **Friday** mine, east of **Baker**, recently reopened by **W. C. Fellows**, **S. Anderson**, and associates. Monthly shipments of 250 tons are planned.

8/20/38

The **Friday** mine, located north of the **Virtue** mine east of **Baker**, has shipped its first car of gold ore since its recent acquisition by **Sam Anderson**, **W. C. Fellows**, and associates. Regular weekly shipments to the **Tacoma** smelter are anticipated. **Sam Anderson** is managing operations.

7/5/38 -

The **Friday** mine, twelve miles east of **Baker**, recently acquired by **P. S. Anderson**, **Lloyd Anderson**, **Kenneth Grabner**, and **W. C. Fellows**, will make its first shipment during July. It is planned to ship 250 tons a month to the **Tocamo** smelter. **P. S. Anderson** is in charge of operations.

## **FRIDAY MINE TAKES PLACE AS PRODUCER**

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**Group of Mining Men Buy  
Old Mine Near Baker,  
Start Operation**

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## **WILL SHIP ORES TO TACOMA SMELTER**

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**Hoist and Equipment Is  
Being Installed, Ore  
Favored as Flux for  
Smelter Use.**

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The Friday mine about 12 miles east of Baker near the highway, over Virtue Flat, is one of the all but forgotten properties of the Virtue district. But the Friday is soon to become known again and that as an active producing mine.

The mine was purchased outright recently by P. S. Anderson, Lloyd Anderson, Kenneth Grabner and W. C. Fellows.

A hoist, air compressor and ore bins are now being erected on the ground preparatory to shipping ore to the Tacoma smelter.

Ore from the Friday, owing to the high silica and lime content is a most ideal fluxing ore, and while the smelter does not pay a premium for the fluxing ores it does take it at very low rate which in turn works for a low cost operation.

The first car will be shipped during this month and from that time on it is planned to ship about 250 tons a month.

Five men are employed in the work at present. P. S. Anderson will be in charge of the operation.

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## Friday Work Makes Good Progress

As announced two weeks ago, W. C. Fellows, Sam Anderson and associates are re-opening the Friday mine east of Baker. Good progress is being made in the work. Machinery has been installed and an ore bin built at the mine. It will hold 50 tons and as the bin is filled the ore will be hauled to Baker for shipping to the smelter at Tacoma.

It is expected that the first 50-ton car of the ore will be loaded before the first of August following which it is expected to continue shipping at the rate of 250 tons per month.

The Mining Journal, July 30, 1938

Lloyd Anderson, Kenneth Grabner, P. S. Anderson, and W. C. Fellows of Baker, Oregon, have acquired the **Friday** mine 12 miles east of Baker. Lloyd Anderson and Kenneth Grabner are operating under sub-lease the **Macy** mine of the Maiden Creek Gold Mines located in the same district. Ten men are employed in two shifts at the Macy mine, mining and milling between 75 and 100 tons of ore a week.

## **FRIDAY MINE SHIPS FIRST ORE FRIDAY**

**Carload From Friday a  
New Producing Mine  
Goes to Smelter**

### **OLD MINE WORKING AFTER 35 YEARS**

**Property in Virtue District  
East of Baker, Ore Is  
Desired by Smelter As  
Flux.**

Friday is the name of the mine and Friday seems to be the big day in the operation of the property. Today is Friday and it is today that the first carload of 50 tons of ore from the mine is being shipped to the smelter at Tacoma.

The Friday mine is one of the old time properties of the Virtue district. The Friday claim was patented more than 30 years ago and it is probably 35 years since the claim was worked. Some months ago the claim was purchased by Sam Anderson, W. C. Fellows and associates.

At the time of purchasing the property the work of reopening it was started under the management of Mr. Anderson. Machinery, consisting of a hoist, compressor, etc., was installed. Ore bins were built and work of cleaning out the shaft and workings started.

The result is the shipping of the first carload of the ore today. The ore carries gold and is much desired by the smelter owing to the high silica content as a fluxing ore.

The mine lies in the sagebrush hills north of the Virtue mine east of Baker. It is three miles east of the old Flagstaff mine. In the old work on the mine the vein was opened by two incline shafts. It is through these shafts that the present work is being done.

It is the expectation that the Friday will become a regular shipper, and since Friday is playing such a part as a shipping date it may be that each week on that day a carload of the ore will leave Baker for the Tacoma smelter.



Record Courier, Baker, Aug. 25, 1938

**EXPECT STEADY ORE  
SHIPMENTS FROM FRIDAY**

Although re-timbering a major portion of the 200-foot incline shaft on the old Friday mine on Virtue flat is taking up a good deal of their time, present operators on August 19 shipped their first carload of crude ore to the smelter.

Shipments will continue periodically in the near future and when the re-construction is complete will go forward more rapidly. Anderson, Grabner, Fellows, Whittle and others are operating the property.

The Hidden Treasure mine on the same hill has shipped several carloads of ore since its equipment was burned a month ago. Reconstruction has been worked in between mining.

*Friday Mine Inc* *Virtue Flat* *Baker Co*  
Baker Record Courier Sept. 8 1938

Eastern Oregon News Baker  
Sept. 9 1938

#### INCORPORATE MINE

Courthouse—One of the county's operating gold producers, the Friday mine is now an incorporated concern. Walter C. Fellows, Sam Anderson and Kenneth E. Grabner are the incorporators and the name is Friday Mine, Inc. The office of the corporation, which has a capital stock of \$25,000, is in Baker. The mine, recently reopened, re-equipped and put into the shipping column, is located on Virtue flat.

### Friday Mine, Inc., Is New Company

Articles of incorporation were filed Tuesday at the county clerk's office organizing the Friday Mine, Inc., with a capital stock of \$25,000, with 250 shares with a par value of \$100 per share. The incorporators are Walter Fellows, Sam Anderson and Kenneth E. Grabner, all of Baker.

The incorporators purchased the Friday mine, a patented mining claim about 10 miles east of Baker, near the Baker-Homestead highway several months ago. The claim had been developed to a depth of a 100 feet more than 30 years ago and work for a time, but has been idle since until it was recently reopened by the present owners.

A 50-ton car of Friday ore was shipped to the Tacoma smelter and it is in carrying out the plan of operation that the new company has been formed.

The Mining Journal September 15, 1938

The first carload of gold ore was recently sent by the new operators of the **Friday** mine in the Virtue district near Baker, Oregon, to the Tacoma smelter. W. C. Fellows and Sam Anderson, both of Baker, and associates recently acquired the property and expect to be making weekly shipments to the smelter soon.

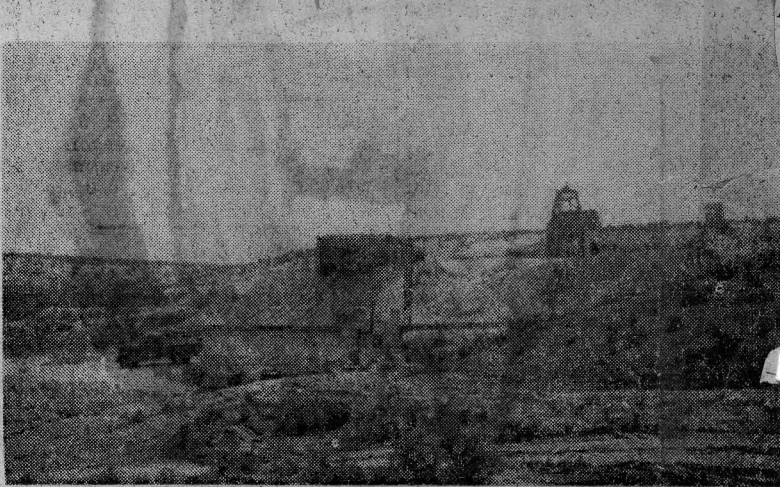
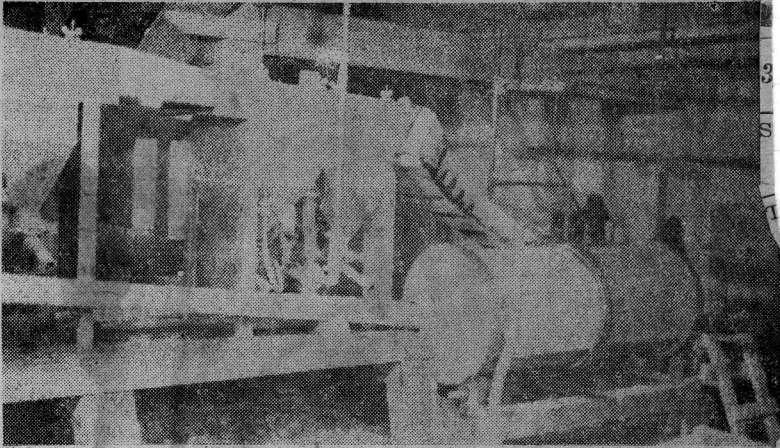


BAKER DEMOCRAT

HERALD

FEB 24 1940

## Pictures Taken at Friday Mine



Top picture shows interior of Double-Day Mining company plant showing Titan Jigs and Titan rotary amalgamator. The lower picture is an outside view of the property.

Arizona Mining Journal  
Oct. 4 - 1941

## Oregon

The Double-Day Mining Company is carrying development of the Friday mine at Baker, Oregon, to new depths, the new bottom level being run at a distance of 300 feet from the surface. E. E. Birchfield of Baker is manager. Operations are on a three-shift basis and the company expects to start its 50-ton mill on the ground in the near future.

Virtue Area  
Baker Co.

# Double-Day Company Starting Production

**New Producing Gold Mine in Operation 10 Miles East of Baker; Company Re-Opens Former Workings, Cleans Shafts and Tunnels and Re-Timbers**

**BY H. E. HENDRYX**

## **In Oregon Mining Review**

A new producing gold mine for eastern Oregon is the Friday mine about 10 miles east of Baker. The property is being operated by the Double-Day Mining company, with Mr. E. E. Birchfield, at the mine in charge of the operation. The principals of the company reside at Tacoma, Washington.

Mr. Birchfield took over the management of the mine last July and since that time has re-opened much of the former workings, cleaning out the shaft and tunnels and re-timbering where necessary. And by the way, to see the timbering is to realize that this work has been done in a first-class manner.

He has also completed the construction of a new 50-ton mill which is operating on a one shift basis. During this time adjustments have been made and experiments carried on to secure the best results in saving the values in the ore.

It was the privilege of the writer to spend several hours at the mine recently, the guest of Mr. Birchfield, the manager. I was given opportu-

ity to observe the operation of the new milling plant which has just been completed and running on a one shift basis for several days.

The mill is unique in the eastern Oregon mining districts. The recovery of free gold and concentrates are made in a series of jigs and an amalgamator of a new type to this area.

Ore is stored in a 150-tin bin near the shaft from which it passes through a jaw crusher to the mill bin—capacity 75 tons—from which the crushed ore is fed to a Forrester-Rexman rod mill manufactured by the Joshua Hendy Iron Works of San Francisco. The discharge from the mill ground to 30-mesh passes to a sump from where it is elevated to a battery of three Titan improved twin diaphragm jigs, two of these are 12x24 inches and the third 18-24 inches.

The hutch product from these jigs is passed to a Titan rotary amalgamator, where the free gold is extracted.

The tailings from the amalgama-

tor pass over the fourth Titan jig which catches the sulphide concentrates. The percentage of recovery so far has been 80% to 82%, and while the percentage of sulphides from the present level is low, the concentrates are said to carry in excess of \$100 per ton.

This is the first plant in eastern Oregon to be equipped with Titan jigs and Titan amalgamator, however, such equipment is hardly to be considered as an experiment. These machines are manufactured by Mill and Mine Supply, Inc., of Seattle, Washington, and are being successfully used in many western mining states and in several foreign countries. They are made for use on gold dredges and in quartz mills. H. W. Moir, representative of the manufacturers has been at the mine conducting test runs and making adjustments of the equipment. The tests have been most gratifying to Mr. Birchfield. Mr. R. V. Wees, who until recently has been operating the same type of equipment on a dredge at Delemar, Idaho, is the mill man, with Charles Williams, of Baker, assistant.

A noticeable feature of the plant is the compact nature of the set-up, the simplicity of the flow sheet, the surprisingly little space required for the machinery. Everything operates automatically and little attention is required on the part of the mill men, in other words the mill job seems to the observer to be what most workmen would call "a snap."

After seeing the machinery in operation and following the ore through and through the jigs and amalgamator and finally over the fourth jig, the rod mill, (figuratively in this case) came the climax. This was the actual proof that gold is being recovered by the mill.

The machinery was shut down and in a matter of five minutes the end of the Titan amalgamator was opened and the core taken out. The core has six flanges, fins or whatever they are called, which are really amalgamating plates. They are made of copper and prepared the same as the plates in a stamp mill for catching the free gold. There is the difference

that both sides of the plates are "dressed" for catching the gold in the material which slushes through the amalgamator. Here, when the core was brought out, was the evidence of the success of the amalgamator, and of the fact that there is gold in the Friday mine. The amalgam was ridged on the plates in a manner to please the most exacting mill man. Here was the "proof of the pudding."

The mill building which is placed just below the dump at the collar of the mine shaft covers but 25x45 feet, and yet there is ample room to get around all machinery, including the parts mentioned and a 40-horsepower Fairbanks Morse diesel engine, a generator and electric plant for lights, and the motors for the jigs and amalgamator. A one-third horsepower motor for each of these. The rod mill is run direct from the diesel engine.

Tailings water from the mill is impounded by a dam a short distance below the mill to permit the water to clear before being released. This dam has been one of Mr. Birchfield's bug bears since the mill started, as about the time he gets it repaired and things look like it will hold, there is another dam break, and repairs start over again. After a few minutes with a shovel to stop the gap, he says, little troubles grow bigger and the next time he will "plug that dam."

In the mine Mr. Birchfield is making good progress in getting shaped up for continuous operation of the mill on a full time schedule. For the mine he has a 12x10 Ingersoll-Rand compressor driven by a 65-horsepower Holt gas engine. This is in a building at the collar of the shaft, with the hoist in a small building on a rise of the hill nearby. Compressed air is used in hoisting and pumping as well as drilling.

The shaft is an incline, 30 degrees from the vertical, and the shaft is 200 feet deep. Underground work is now being confined to the 200-level. At present Mr. Birchfield is confining his work largely to cleaning out the old drift to the east and extending the drift. He is also starting drifting to the west. The east drift is being extended to the apex of the vein.

The vicinity of the Friday mine

has generally been known as a dry area and Mr. Birchfield's success in securing ample water for a 100-ton mill if necessary, has been one of the gratifying developments along with the showings that have been made in the mine. Water has been encountered in the bottom of the shaft and by sinking further an increased flow should be encountered. The water pumped from the shaft is held in a small reservoir from where it is piped to the mill.

Mr. Birchfield has been greatly pleased by recent developments in the mine. He states he is finding the ore bodies promise to develop more tonnage than was expected at first, and that values are also encouraging. Sampling has shown the mill ore value ranging from about \$10 per ton up to a little over \$20.



# DOUBLE-DAY MINING COMPANY STARTS PRODUCTION AT FRIDAY MINE

any Mine

(H. E. HENDRYX)

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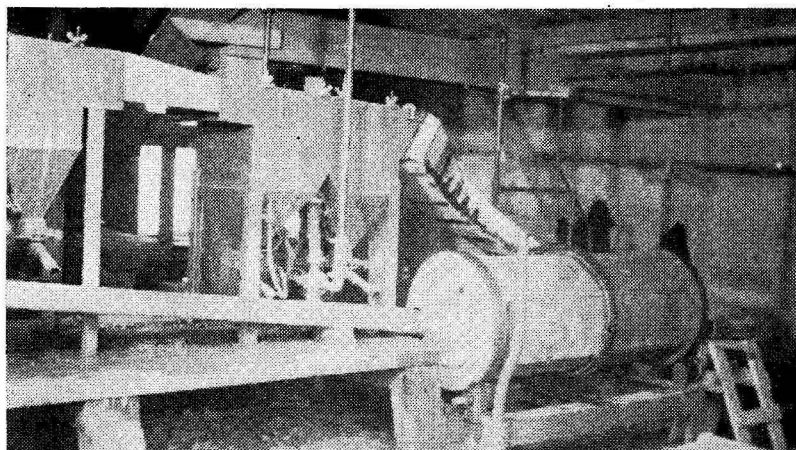
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(Turn to page 11)



# Double-Day Mining Company Starts Production at Friday Mine

(Continued from page 3)

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FRIDAY MINE INC. (Gold)

Virtue District

(East portion of Columbia-Friday ground)

Walter Fellows, Sam Anderson, and Kenneth E. Grabner of Baker, incorporators. Capitalization, \$25,000. Consists of one patented mine claim located 10 miles east of Baker just east of Hidden Treasure near the Baker-Cornucopia Highway. The property was explored to 200 feet depth 30 years ago but has been idle since until recently opened by the corporation. One 50-ton car of ore was shipped to the smelter. Closed Sept., 1938.

Informant: Press report, Aug.-Sept., 1938.

Ref. Lindgren, 01:725  
Gilluly, 37:100

Pg 106-141

*one June 29*  
**Friday Mine**—W. R. Christensen, is in charge of the work at the Friday mine east of Baker. This mine which had been idle for many years until 1938, was taken over last January by Tacoma parties. Shipments of ore were made from the mine to the Tacoma smelter in 1938. A mill is under construction at the present time.

*one June 1940*  
**Friday Mine**—The new 35-ton mill at the Friday mine will soon be in commission. The plant has been completed and trial runs are being made. E. E. Birchfield, Baker, Oregon, is manager of the property. Harry Moir of Seattle, has been at the property for a time in charge of the final installation of the machinery.

The **Double Day Mining Company** expects to be on a regular milling schedule in the near future. Trial runs are being completed in the 50-ton amalgamation mill at its **Friday mine in the Virtue district** east of Baker, Oregon. The company, headed by C. W. Hall, 4328 South East Ash Street, Portland, took over the mine last July and has reopened and retimbered old workings, started new ones, and installed the mill since that time. E. E. Birchfield of Baker is manager. R. V. Wees is mill superintendent and Charles Williams is assistant, both of Baker. Water for milling operations is obtained by pumping the water from the shaft to a small reservoir from where it is piped to the mill. The main shaft is 200 feet deep, inclined 30 degrees. Present underground development is being confined to the 200 level where the east drift is being cleaned out and extended and a drift started to the west. *E.O.M.J. 5/30/40*

**Double Day Mining Company**—E. E. Birchfield, manager of this company operating the Friday mine in the Virtue district east of Baker, has completed installation of flotation equipment at the mine. He states the mine and mill will soon be in full operation. *one July 1941*