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THE
GOLD FIELDS
of the
INLAND EMPIRE



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IN
OREGON MINES
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AND READ IT

HENDRYX SYSTEM SAVES 83 PER CENT

Brilliant Success of His Cyanide Agitation Pro- cess at Republic Mill.

By saving 83.3 per cent of the total gold and silver values in the ores from the Mountain Lion mine at Republic, Washington, Dr. Wilbur A. Hendryx, has apparently proven the complete technical success of his Hendryx agitator and cyanide process in saving the low grade gold values of the camp.

The doctor has been experimenting with the Mountain Lion ores in his fifty ton tank at Republic for over a fortnight and he had refused to make any statement as to the results until he could satisfy himself. The following statement, however, given by him yesterday to The Spokesman-Review correspondent at Republic, tells the story:

"Republic, Washington, March 5.—I promised the president of the Mountain Lion Gold Mining company under the following conditions to give an extraction of 80 per cent or better of the total value of gold and silver. The conditions were: He was to furnish an average grade of ore, ground to eighty mesh or finer. The tests of the ore have been on an ore much lower than the mine's average value, and only 80 per cent has been ground to eighty mesh, while 11 per cent has been coarser than 80 per cent. The extraction has been 83.3 per cent.

"(Signed)

WILBUR A. HENDRYX."

The question of saving the values in Republic ores has been a most puzzling one. The great Republic mill, costing \$300,000, was unable to cope with the problem, and the Mountain Lion's old mill failed completely. When Mr. Hendryx, therefore, promised to save 80 per cent of the values at a cost of \$1.50 a ton, there was intense interest among mining men. The Republic ores are of low grade, running around \$10 a ton. The smelters pay about \$9.40 for the gold and silver in ore assaying \$10, and deduct \$6 for freight and treatment. That leaves the mine owner only \$3.40 out of which he must pay costs and get a profit.

By saving 83 per cent of the values, Dr. Hendryx recovers bullion worth \$8.30 from \$10 ore, and if the costs of milling it by his system are only \$1.50, as promised, there is a net profit of \$6.80 instead of \$3.40 to the mine owner. Such a margin means the difference between success and failure in the case of Republic mines. The only problem now apparently to be demonstrated is the cost of milling the ore. Mining men, however, do not believe that it

will run much above the Hendryx estimates. The method is so simple that the chief uncertainty has been with regard to the extraction.

In brief, the process consists in agitating the ore in a tank, by means of a propeller, and recovering the gold and silver on electric plates.—Spokesman-Review.

CLIMATE IS Milder SNOWSHEDS REMOVED.

The La Grande correspondent of the Spokesman-Review says:

All the snowsheds that have done service on the La Grande-Huntington division of the O. R. & N., have been removed within the past year, owing to the decrease of the severity of the weather during the winter months in eastern Oregon, causing less expense.

When these sheds were built twenty years ago the road through Pyle canyon was blockaded every winter with snow, and the sheds were built to protect the worst points. It has been noticed by the track department for the past ten years that the snowfall, wind and drifts are less and less severe each year.

During the winter just passed no trouble has been occasioned at the points at which the sheds stood, although it has been the worst winter in five years in the mountains.

Even if the snowfall was as heavy now as when the sheds were built, the rotary snowplow could be used to clear the tracks, and at the time the sheds were erected the rotary was unknown.

The heavier engines of today can also wade through much deeper snow without interference than could the former class of smaller engines.

HOW A GAMBLER MADE THE CONGREGATION PUNGE.

"We have a certain parson," Dean Hart of Denver writes, giving his name, "whom we keep on the frontier. He is a rough diamond, and has a kussak with the miners. Not long ago he went to a camp called Rico, borrowed the dance hall over the saloon for his service, 'rounded up' his boys, and the hall was filled.

"After the sermon came the collection—a very important feature. The preacher ran his eye over his audience, and seeing a certain gambler known as 'Billy the Kid,' 'Billy,' he said, 'take up the collection.' Very much honored, Billy took his big sombrero, and with an important and dignified air, as was fitting for the occasion, he made his way to the front and held his hat for a young man on the foremost chair to 'donate.'

"The young man dropped in a quarter, Billy looked at it; then putting his hand under his coat-tails drew his revolver and said, with the utmost gravity, 'Young man, take that back; this here's a dollar show.' Then, with his hat and revolver, moving around the hall, he got as many dollars as there were people."

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