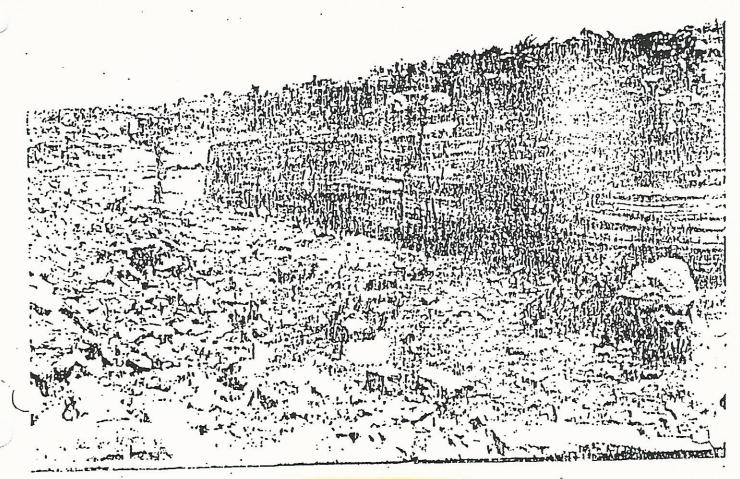
Onyx Quarry At Mayer



There Were Exquisite Stones —

In As Many Colors And Shadings As The Rainbow

Reading the old news stories about the only mines near Mayer is really enjoyable. The stories are like all the other news about mining, except there's something that makes them seem lighter. There's a touch of joy in the only stories.

IN ANALYZING the difference between onex stories and gold or silver mining stories, one becomes avere of the descriptions in the onex stories. All the old miners knew what gold and silver looked like, and the names themselves described the color. Dut not everybody know what tyx looked like, and there are many tooked like, and there are many acquiring descriptions.

lere's a March, 1900 newspaper article: "Within talking (sich distance of Mayer lays one of the greatest and most heautiful deposits of onyx in all the known world. So much prominence in the past has been given

By Claudette Simpson

this particular industry in so far as the magnificence of its fieds go, and the sale thereof a few years ago for a vast sum, that the future of the same will be mentioned again, and likewise will the uncovering of additional and new ground be lightly spoken of.

"IT IS stated on teliable authority that the Arizona Onyx company has lately decided to resumb work at once, and for the purpose of successfully operating and carrying out the object of the work outlined some months ago, will erect new buildings equipped with modern machinery to handle the product, in sawing and polishing the same.

"The cost of the plant is said to be over \$50,000. When under headway a large force will be maintained, and in consequence will Mayer correspondingly prosper. The ground covered by this company is of great area, some 300 acres, and averages in depth of anyx over thirty feet.

IN LINE with this industry may also be mentioned the recent discovory in adjoining ground of another onyx deposit of some 120 acres in extent, by Daniel Llowen, that is creating a great deal of interest in the variety and quality of the deposits uncovered. On claim No. 1, which adjoins the original location, and laying below, down the hill, concealed under the grass roots and soft loam, some of the most beautiful and variegated stone ever placed holore the eyo is being quarried. Exports pronounce to product here to be the linest on . e mesa, and samples on exhibition stainly bear cout this assertion.

"On claim No. 2 another specie of onyx has also been recently uncovered of an African or handit grain, as it is called. Nothing but this variety has been uncovered on this claim. On claim No. 4 another surprise ments one in one's rambles in beholding a distinctive type of the wonderful doings of nature, in the shape of block onyx, that is as howildering as it is beautiful. Many who have seen this particular stone seem to have a decided preference for it over all others.

"...THE GROUND under which the onyx lies can be diven over in a buggy, and if not familiar with the formation, and the fact that under the soft dirt lays the onyx in gigantic states, a stronger would certainly be in ignorance of the existence of the product, so smooth and soft is the soil."



Experts On Onyx Were Astonished

· Continued from Page 3

It's difficult to tell just reading old newspaper clippings, who owned the mine when. Each clipping seems to be telling about the sell and the new owner of the Rig Rug onyx mine. One article is dated August, 1890 and tells how a Mr. Smith of Los Angeles purchased "220 acres of the most beautiful onyx that every pleased the eye of man. Red, green. blue, old gold, pink, white, black, translucent, variegated in every vari ation, the onyx is found covering this area to an unknown depth, and while the owners of the only other onyx quarry in existence - the one in the State of Puebla, Mexico - were growing rich by selling their stone at from \$8 to \$20 a cubic foot, hundreds of persons passed over this deposit to admire for a moment the wonderful beauty of the rock and then cast it away as worthless, until last February, when Al. and George McCann, William O. O'lleill and John W. Dougherty located it in a vague, speculative sort of way,

trusting that the future would develop some way in which its products could be utilized. A few samples sent to Chicago astonished the experts of that city, where \$100,000 of Mexican stone had been used in the interior decorations of the just their completed auditorium.

"NOTHING of the kind used in that building, in color or texture, could compare with the Arizona stone, while the flaws that made the Mexican stone so defective were totally missing. Both Chicago and New York experts on anyx were sent to the Territory, and all were astonished not only at the extent of the quarry, but also at the fact that the onyx was in regular quarry formation, something never belore known, as in Maxico it is only found in boulders.

"The long accepted theory that the stone was primarily formed in the shape of stalogmites and staloctites was upset, and the only explanation that could be advanced to account for the Arizona freak of a regular

quarry of onyx — just like sandstone or granite — was that the valley in which it was located had at one time been the basin of a lake formed by a spring whose waters were strongly impregnated with lime to form the body of the stone, and with iron, gold, copper and other minerals to color it, and then centuries evaporation under the burning sums of Arizona did the rest, and as a result gave a quarry that rivals in its beauties of colors the glories of the oral."

AND THE article concluded with the statement that the present owners expect to make a fortune from the mine. That sentiment, in one way or another, was expressed in every article that told about the mine being sold. When local people think of the onyx mine, they think of Buckey O'Neill and Joe Mayer and Joe Dougherty. Back when the onyx quarry was in operation, there were many who told the story of how they

almost got in on onex deals, but didn't quite make it.

Here's a clipping from the September, 1903 Prescott Courier: "Onyx is being shipped from the quarries near Mayer to London, England. The late "Buckey" O'Heil was the first man who brought these quarries into prominence, and the Courier man came very near making a sale of them at one time for "Buckey;" a knocker knocked us out."

SHARLOT HALL traveled by train from Prescott to Mayer to see the onyx quarries. She wrote a delightful account of her trip in the July 10, 1899 Journal Miner. She described the scenery on the way there, the town of Mayer and the onyx cliffs. Then she wrote: "An engine and luge derrick for lifting the giant blocks was in place at the largest claim but no stone was being mined so we could not quess at the

Please turn to Page 5

Mayer Onyx

Continued from Page 4 methods.

"Down under the trees one of the original locators, Dan Bowen by name, had a polishing factory all his own and with the aid of the most primitive tools was turning out small but exquisite specimens in as many colors and shadings as the rainbow. We were shown onyx, black, white, green, dappled, satin onyx, crystal onyx, pebbled onyx, surely every combination that nature could dovise and all beautiful."

ANOTHER newspaer article written in 1894 described polished onyx from a quarry on Sycamore Creek, 55 miles from Prescott, as being "many colors — chocolate, slate, cream, lavender, red — in fact, no two pieces are alike, though all are broautfully mottled and show an induste variety of curious designs,"

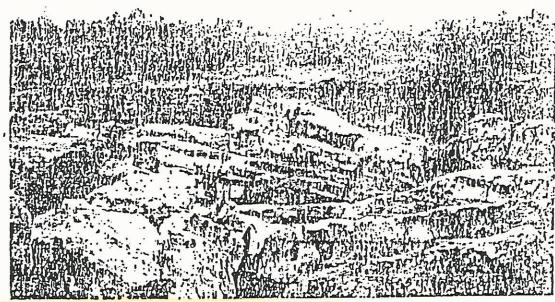
One actule told about the largest slab of onex taken out in one piece. It was from the O'Heil ledge and used 23 by 10 feet, and 26 is thick. "The stone from this claim is very fine grain and takes a much higher polish than the celebrated may at Mexico, and it contains colors that were exhausted many years ago in the Mexican times."

There are many more articles about the onyx quarry near Mayer. And meanly all of them mention the beauty and the many colors of the precious stone.

It's almost like reading about a rambow.



John Dougherty pictured at Onyx mine, discovered about 1889.



Onyx Mine at Mayer, once owned by Buckey O'Heill, Joe Mayer and Joe Dougherty.

Recora ci Progress n the Mines and on! he Ranges and tanches of Yavapai

The Yavapai Magazine

Vol. XII

Prescott, Arizona, January, 1925

No. 10

DUY SOMETRING MADE OF COPPER

GENUINE YAVAPAI COUNTY ONVY

Mayer, Arisona

just about one year ago the wapsi Cnyx Mining Corporation mmenced operations. All of the posit on Big Bug Creek, aprumately 320 acres, is now ned by the Corporation. A num-- of new openings have been one and the last two car loads of ene airped to Dubuque, the adquarters of the company, came TIM an opening on the extreme rosite side of the original quar-.x. The company maintains a re of men at Mayer and decomment work is carried on conmaily. According to the state-ing of the company, they have crisified themselves that there is remendons quantity of high rade onyx in the acreage.

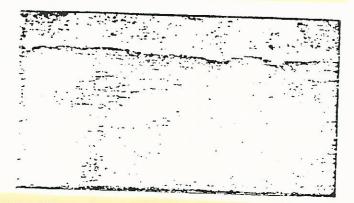
hisaing Plants at Dubuque, Iowa The onyx is not sold in the with state and what is taken om the properties is brought to e finishing plants in Dubuque. are it is made into lamps, can-*: ricks, bowls, table tops, bookfire places, lamp bases. ornaments of different and gear shift balls for biles.

rroducts Sold Throughout the World

a he onyx gear shift ball has beme tremendously popular, and is being sold in all parts of the orid. It has found favor in soon, Portugal, Cuba, Sweden, -ylon. The Argentina, Hawaii mands and even in the far away wing humidity of the Straits Milements.

The Yavapai Onyx Mining Cor-

A FLOURISHING INDUSTRY AT MAYER, ARIZONA



Quarry at Mayer, Arizona, from which Onyx is shipped to Dubuque. Iowa, where it is manufactured into various articles. Ninety-four million tons in quarry by government estimate. _____

poration markets the stone under emphasized. The officers of the users of onyx prefer the Genuine to the things of loveliness and use. Yavapai Onyx to that coming from Mexico and Brazil.

Ore large manufacturer has if fered to contract for Lid, with morth of onyx during 1925, provided the company gives him the exclusive use in his field. He has never used more than a few hundred dollars worth of onyx per year in the past.

Easily Worked

The company has found the Genuine Yavapai Onyx singularly pleasant and interesting material to work. Each new carload of stone brings colors and markings | Company of Chicago, manufactur- ticularly fortunate in the e even more beautiful than preced- ers of the Almco Lamps, and per- perienced men who are the office ing ones, and the workers take haps the largest lamp manufact of the company. Joseph A. As. great pride in finishing the stone turer in the world, has contracted is the president; J. H. Devane so that every detail of its beauty is to use the Genuine Yavapai Onyx

the trade name of GENUINE YA- company state that they consider VAPAI ONYX Already, some of it a privilege and a pleasure to the larger and more discriminating fashion Genuine Yavapai Onyx in-

Now Manufacturing Church Goods

'n admitted to the uses mentioned, the Yavapai Onyx Mining Corporation is supplying some of the church goods manufacturers than carload quantities. with columns of varying lengths and diameters for aitars, rails.

Almoo Lamps to Use Yavapai Onyx During 1925

The Art Lamp Manufacturing Prescott, the county seat, is pa

Finishing Plant, Dubuque, To

on their plated lamps for the e tire year of 1925.

National Advertising for Us

These lamps retail as high \$500.00 each. This company at agrees to mention Genuine Yavan Onyx in all their national advetising for 1925. Their ads will a pear in the following magazine Vogue, House and Garden, Libert Good Housekeeping, as weil' their full page ads running in suc papers as the Chicago Tribune.

New Crushing Plant to Be Erected at Mayer

The Yavapai Onyx Mining Co poration now intends to erect crushing plant at the mines Mayer for the purpose of grushir onyx for stucco dash and terrax. flooring. This plant will be in o eration within the next ninety day

Will Make Stucto Dash and Terrazzo Flooring

Samples of the Genuine Yarap Onys seemed dash have been at mitted to the unde in Sen Fra cisco, Los Angeles and San Diez and the company have now man inquiries for carlcad lots and le

Personnel of Company

The Yavapai Onyx Mining Co baptismal fonts and candie sticks. poration, whose main plant is Dubuque, Iowa, with the mines ? cated at Mayer, Yavapai Coun: Arizona, about thirty miles from



Factory of the Yava-Onyx Mining Corporat at Dubuque, Icva



MAYER ONYX QUARRY BEING ACTIVELY DEVELOPED BY THE YAVAPAI ONYX CORPORATION

Extellence of Mayer Onyx Attracting National Attention-

BY JOHN L SULLIVAN

aful strides are being the in the development of the area Onyx quarry, in Yavapai entry, through the splendid terry of the Yavapai Onyx Mingrey Corporation, with John A. By as the president and active mager. It is interesting to note so that it was through an interesting to note that it was through an interest and immigration companies and immigration companies, that brought about the runnation of this company in

A trip to Dyersville, Iowa, and a importion of the factory for a finishing of this semi-precious are from Yavapai county, would prove than a surprise to the average person.

Approximately one hundred men remployed in the plant and the miding is equipped with the very yount and most modern grade of actionery for shaping only into mous novelties and articles of

t is shipped to Dyerst from the mines at
all sizes and quantities,
in Onyx company has
come rackage, and the onyx is
rackage and the onyx is
rackage in the factory.
The by various processes which
we been created and are used extively by the Yavapai Onyx
pany, the onyx is cut, shaped,
inticd and inspected and shipped
manual parts of the world.

The fundery is equipped to fill a noder, no matter how complitud, from a ball used as an ornext on the gear shift or motorter of an automobile, to large hy, which are now being used the more exclusive and higher as buildings.

The most interesting thing it the whole developments is a since the market for Yavapai it since the market for Yavapai it since the market for Yavapai it says been created, various in are attempting to imitate tempets with the Yavapai it imports with the Yavapai it imports with the Yavapai it is can be at all favorably available at all favorably available in the various colorings of Yavapai onyx.

The Property of the Yavapai z Corporation, the Fanter

spent two days in that city, where contracts were closed for the year with various concerns, in excess of \$125,000.

The success of the Yavapai Onyx Corporation is entirely due to the untiring efforts and real of Mr. Kelley, who foresaw the possibilities of this stone. From present indications, the business for the year 1927 will reach \$1,-000,000. Seven automobile concerns are using Yavapai Juyx either as specifications for their car, or as optional equipment The product is found in many churches throughout the world, because of its ornamental value. The Art Metal Lamp company and Kaplan & Company, two of the largest

the company itself manufactures various novelties, including lamps office novelties, church goods candle sticks, jewel cases and the like.

Up to the present time the company has been unable to branch out with additional novelties, because of the limited capacity of the plant, and the fact that: orders began coming in as room: as the material was shown to the public. However, plans are under way now for additional articles, both of utility and art. Among other things, it is contemplated to place a door knob, of unique design, on the market.

Yavapai onyx has attracted the attention of at least two of Amer-

Finished products from the Mayer Onyx Quarry.

lamp makers of exclusive lamps in the United States, are using Yavapar onyx in floor, bridge and table lamps. Two of the largest pen manufacturers of the country are recruiting for the exclusive use if the onyx as the basis for desk sets. In addition to these,

ica's greatest architects. Mr. Jarvis Hunt, who designed the Union Depot at Kansas City, is interested in the Mayer poya to such an extent that he has incinded it in the specifications of ma construction of several office buildings and theaters. Rapper

Rapp, well known architects of Chicago, who are now constructing a beautiful and unique both at Jersey City, and also a largetheater in Brooklyn have specified Yavapai onyx. Mr. Hunt is using the Yavapai onyx in the proposer Scattle theater, which will be the largest and most beautiful theater in the city of Scattle.

Probably the most impressive and magnificent building in Chi cago today is the building known as the Nine Hundred, North Mich igan. This structure, of consider able height, is located on Michi gan avenue, directly opposite th-Drake Hotel, and the facing on th entire ground floor is of Yavata onyz. It has attracted wide-sprea. attention and numerous inquirie have already been made concern ing the source of this beautifu stone. The stone used in thi building is entirely of the red TE riety, with its natural design which looks similar to the calor ing in a Paisley shawl.

Recently, at the Mayer quarry where steam shovel operations are being used and additional davel opment being pushed, more beau tiful onyx has been uncovere than any heretofore disclosed. The predominating color and back ground is green, with a muiticolored combination throughout.

Yavapai onyx is conceded to be the most beautiful of all stone of a semi-precious nature yet directored. And this is largely due to the many and varied colors the each piece of it, no matter he small, contains. The prevailing colors, however, are pink, regreen, brown and a greenic white.

The Yavapai Onyx Corporatio owns approximately 400 acres . Mayer, about thirty miles from Prescott, nearly all of which patented. This mining propert has had an interesting past from the stand-point of mining, prom ; tion and prospecting and it a. changed hands several times T claims were originally located -Joseph Mayer. A snort time them after, Bucky O'Nell of Rear Rider fame, became interesten the property, and be, in turn, terested a group of capitally from New York. At one time . property was bonged in the .

Dags murble.—Near Mayer, on the test bank of Gigoug Creek, is a considerable deposit of onyx marke mall portions of which are of a quality hat remiers it suitable for a decorative stone.

from a thin layer on the crown of the hill to a U.S. Nat. Mus., 1893, pp. 539-585), whose analyses maximum of about 25 feet on the bank of the lof the unoxidized, green onyx and of the oxidized, creek. The geologic nature of this deposit has brown material are here reproduced. been described above. Many prospecting pits have been sunk on it in all parts of the area, and a quarry was opened in one of the thicker portions, but very little has been shipped and no work was being done when it was visited. 1365 Folio 126 P. 11

The onyx is extremely variable in color and texture. Most of it is white or pale green when fresh, but weathering has produced variations of color which give it most of its decomptive value. The structure is distinctly bunded, the individual bands varying in thickness from a inches to a fraction of an inch. The broadest bands are conrecty porous, are transverse to the hedding, and commist of sragonite. Many large blocks cut in the quarry !!

are almost wholly of material of this character. The cater part of the onyx is in thin bands of wavy in section, not distinctly fibrous, and composed calcite. The calcite has been shown by analysis contain a small amount of ferrous carbonate, and this tends to give the onyx a pale sea-green color when fresh. Oxidation of the iron, however, sets free either brown limonite or deep-red hematite, and this powder remains suspended as a coloring matter in the calcite, giving brilliant color contrasts against the white or green original material. Pale-pink and salmon tones are also occasionally developed, and rarely the whole mass of the onyx is in alternating layers of black and white.

The more massive portions of the deposit are chiefly white, and while large blocks may be obtained, the lack of color variety makes it less decorative. The most valued variety is the green with red and yellow banding, and large blocks of this color are difficult to obtain.

The chemical change by which the iron con-The deposit, which covers an oval area about rained in the carbonate has been set free without me-juarters of a mile long by less than half a breaking down the texture of the calcite as a whole calle broad, is superficial and varies in thickness has been studied particularly by Merrill (Report

Analyses of onyx marble from Mayer.

	I.	п.	tu.
CaCO,	98.93	23.50	98.82
МgCO,	56		.33
FeCO	. 5.50	5.31	4.06
Fe,0,			1.78
SiO,	0.5		08
H, U	not det.	.40	not det
Toptai.	100.04	99.41	100.19

I and II. Ouyz marble, green, Mayer, Ariz. III. Onyx marble, brown. Mayer, Ariz.

The axidation process, as shown by these analyses, has been accompanied by little or no accession of iron oxide, and the calcite is still present in the original form. The process takes place from the surner, along flaws, which permit freer movement of the oxidizing solutions, and along individual bands which may be slightly less dense than others. The illustrations in Herrill's description cited above show this process admirably. Where complete oxidation of the iron has taken place and the whole mass has been changed to red or brown calcite it becomes quite opaque, and while the stone then has a new and very unusual color effect, it is not in demand by workers of this material. Probably it is the prevalence of these limonitic bands, which make it difficult to obtain large pieces of light-colored material, that has led to the practical abandonneat of this property.