

PLACER MINING IN THE DESERT DESCRIBED BY U. S. SURVEY

To one unacquainted with local conditions a semi-arid region, entirely lacking flowing streams, would not seem to be a promising field for placer mining, yet the gold produced from the placer mines of the Manhattan district, in central Nevada, has nearly equaled in value the gold taken from the lode mines.

Manhattan Gulch, which during the last decade has produced nearly \$1,000,000 in placer gold, is a dry, gravel-filled valley extending westward from the center of the Toiyabe range to Big Smoky valley. The bedrock on which the pay gravel rests lies from 40 to more than 100 feet below the surface, and water is scarce, so the gold must be recovered by underground mining. An underground stream flowing along the bottom of this gravel-filled gulch supplies sufficient water for sluicing the gold-bearing gravel. In places this gravel is extremely rich. Material carrying as much as \$50 a cubic yard has been mined from the best ground, and throughout the productive portion of the gulch the pay gravel has generally yielded over \$2 to the cubic yard.

Many unusual and interesting features are presented in these deposits, which are described in detail in bulletin 640-J of the United States geological survey, department of the interior, by H. G. Ferguson, Elephants, deer and native wild horses were once inhabitants of this part of Nevada, and when the gold was first deposited in an old stream bed, a large lake occupied the dusty desert which gave Smoky valley its name. The later history of the region, with its successive changes of climate, has been traced by interpreting the record left by the different types of gravel beds that have so deeply buried the rich gravel.

A peculiarity of the gold of the placer gravels is that downstream from its source the gold itself shows a marked increase in purity. At the upper end of the gulch the bullion contains 700 parts gold per 1000, but at the westernmost mine, two miles downstream, its fineness has increased to 740 parts per 1000.

A copy of bulletin 640-J may be obtained from the director* of the geological survey, Washington, D. C.

VATICAN URGES CHURCH UNION

REUNION OF THE ENTENTE AND WESTERN CHURCHES FAVORED BY POPE BENEDICT

(By Associated Press.) WASHINGTON, Jan. 5.—Private letters from the Vatican received by Dr. A. Palmieri of the library of congress announce that Pope Benedict XIV is about to appoint a commission of four cardinals to renew a movement begun by Pope Leo XIII and abandoned by Pope Pius XV, looking to a reunion of Christianity and the cultivation of friendly relations with the Anglican church. A public announcement from Rome on the subject is expected soon.

Dr. Palmieri said that the new movement will be directed particularly towards the establishment of a reunion of the Russian and Latin churches and to a thorough re-examination into the validity of Anglican or Episcopal ordinations, which was settled in the negative in a papal bulletin "Apostolica Sedes," by Pope Leo XI.

The honor of presiding over the commission of cardinals, Dr. Palmieri has been informed, will be bestowed on Cardinal Nicola Marini, who has devoted many years to scientific research and to the cause of a reunion of Christianity. The interest of the pope in the problem of Christian unity is said to have been intensified by the recent progress of the world congress initiated by the American Episcopal church.

BUREAU CHIEFS SLATED TO GO

CONSOLIDATION OF IMPROVEMENT WORK TO BE ADVOCATED

(By Associated Press.) WASHINGTON, Jan. 5.—President Wilson indicated definitely that the administration will favor the creation during the present session of congress of a commission to investigate plans for co-ordinating as far as possible all governmental work connected with the inland waterways of the nation, including river improvements, drainage, irrigation and flood control.

The proposal is to have the commission composed of the secretaries of war, commerce, agriculture and interior and three civilian engineers appointed by the president.

THE BIRD WAS THERE.

A Surprise For the Man Who Investigated the News "Fakes." Some years ago strange, weird stories used to float into Washington from Kitty Hawk, N. C., describing a great bird, seen only at night, hovering over the sand dunes and brushwood of the locality.

It was so preposterous that Kitty Hawk was soon eliminated as a news source in every metropolitan newspaper office. Washington would not accept such stories under any circumstances. The boys on Newspaper row were too experienced to be caught by North Carolina fakers.

Kitty Hawk was wiped off the news map.

And yet the reports of the "great bird seen only after nightfall" were absolutely true. After some of us had exhausted our fund of oriental lore about the roc—that gigantic bird that was of such use to anxious Schaherazade of the "Thousand and One Nights" in rescuing Sinbad and other un lucky travelers from danger—and others had gone so far as to suggest a return of the fabled dodo in stuporous proportions, it was finally suggested that somebody go to Kitty Hawk and expose the faker.

"Not on your life!" said I. "There are as many fakes right here in Washington every twenty-four hours as I care to expose."

The one man who finally went with deep reluctance fathomed the mystery and literally "discovered" that two young Ohio boys, the Wright brothers of Dayton, had solved the "impossible" problem of aerial flight.—Julius Chambers, in the Brooklyn Eagle.

COPS FORMING A NEW DIET SQUAD

(By Associated Press.) NEW YORK, Jan. 5.—An experiment intended to prove that a normal man can exist on an expenditure of 25 cents a day for food will be undertaken next week by a "diet squad" of twelve young policemen. It was announced today by three members of the hygiene board, of which William H. Taft is chairman.

Police Commissioner Arthur Woods said that his department hoped, through the experiment, to give housewives "the message of today on economic and healthful food."

SOTHERN MAY HAVE SERIOUS OPERATION

WIFE HASTENS FROM NEW YORK TO HER HUSBAND'S BEDSIDE

(By Associated Press.) CHICAGO, Jan. 5.—E. H. Sothern, the actor, who is confined to his bed in a local hotel suffering with a stone in his kidneys, was resting easier last night, according to Dr. J. A. Wolfer, attending physician. Doctor Wolfer said it probably will be determined today whether or not he will be obliged to undergo a major operation. Mrs. Sothern, who was Julia Marlowe, arrived from New York today.

the tension vibrates along the common slanting connection and records the energy expended.

At one test Michael Penha at times raised the point to a distance equalling three pounds in weight, that being the record of the forefinger. The pressure alone required to produce the characteristically Maclean tons of a simple Bach aria averaged two and three-quarter pounds per note. The total energy expended amounted to 9,434 pounds, or more than four tons.

This same amount of energy would be sufficient to carry a laborer through his entire day's work. Yet it took but five minutes for the artist to exert the same amount of force.

In view of present price quotations it looks as if this country needed a good deal less advice on salesmanship and a good deal more on buying.—Cleveland Plain Dealer.

Application No. 4172 Notice of Application for Permission to appropriate the Public Waters of the State of Nevada

Notice is hereby given that on the 3rd day of October, 1916, in accordance with Section 49, Chapter 140, of the Statutes of 1912, one P. Kimball, of Springdale, County of Nye, and State of Nevada, made application to the State Engineer of Nevada for permission to appropriate the public waters of the State of Nevada. Such appropriation is to be made from West of the Stingers Well, on Grays Spring, at a point on an unurveyed land. Prominent white tufa hill rock monument apex located 300 feet S. 19 deg. E. from Transval shaft, Transval Mining District, bears S. 85 deg. W. 4 miles. Approximately in T. 16 S. R. 10 E. M. D. B. & M., by means of wind mill and tanks, and one cubic foot per second to be conveyed to tanks located at the above mentioned point of diversion, by means of pipes, and there used for stock watering purposes. Water not to be returned to stream.

(Signed) W. M. KEARNEY, State Engineer.

Date of first publication, Dec. 8, 1916. Date of last publication, Jan. 5, 1917.

DELINQUENT SALE NOTICE

TONOPAH GIPSY QUEEN MINING COMPANY

Location of principal place of business and location of works: Tonopah, Nye County, Nevada.

NOTICE—There are delinquent upon the following described stock, on account of assessment No. 19, levied on the 23rd day of November, 1916, the several amounts set opposite the names of the respective shareholders, as follows:

Name	No. Shares	Assessment
R. R. Armstrong	1553	\$12.00
R. R. Armstrong	1559	15.00
R. R. Armstrong	2021	15.00
R. R. Armstrong	2061	4.50
Albert D. Ayres	1259	15.00
E. C. Bailey	2232	15.00
F. W. Baker	2836	15.00
F. W. Baker	2837	15.00
F. W. Baker	2838	15.00
J. K. Bawden	1953	15.00
Caroline Q. Beers	322	3.00
P. M. Binzel	974	15.00
P. M. Binzel	984	15.00
P. M. Binzel	984	15.00
P. M. Binzel	1007	15.00
E. Bonlight	2983	5.00
F. L. Bonn	1992	15.00
R. H. Bouton	122	3.00
David Boyce	5974	7.50
Martin Caffera	769	15.00
W. J. Dinsmore	2782	3.00
O. B. Dunham	34	15.00
Epstein & Gartland	2563	5.00
Epstein & Gartland	2564	5.00
Epstein & Gartland	2574	15.00
C. B. Epstine	753	15.00
Geo. S. Faust	392	15.00
Finninger & Co.	2814	5.00
S. Galvin	1095	15.00
Albert Gibson	1948	5.00
Moses Gotlob	2187	15.00
Ben Green	2172	15.00
J. L. Hicks	617	15.00
Herman Hiltensparger	1790	7.50
Joe Hopp	655	15.00
L. W. Horton	773	5.00
John & Baker	8122	5.00
Frank Kay	94	7.50
Frank Kay	95	15.00
Frank Kay	96	15.00
Frank Kay	97	15.00
H. D. King	171	15.00
H. D. King	1718	15.00
H. D. King	1738	15.00
H. A. Kraft	1918	15.00
L. L. Mueshet	547	4.50
William T. R. Miller	2168	5.00
U. E. McQuay	169	15.00
George M. Newmyer	59	7.50

E. H. Norwood	3070	5.00
Maurice Ober	2251	15.00
Anne Caldwell O'Connell	3819	4.50
W. A. O'Grady	250	5.00
Charles D. Olney	87	15.00
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