with mineral development to be of more assistance to the average prospector and small mine operator is due primarily to one essential factor.

The organic arts creating both the Geogical Survey and the Bureau of Mines contain inhibitions designed to prevent the use of these government agencies to promote private or corporate gain.

These very inhibitions, designed to protect the public interest, have often operated to prevent the highest usefulness of the government bureaus concerned, especially when applied to the vast areas of public domain in Nevada.

There are two distinct theories relating to development of our mineral resources. The one generally adhered to in the west was admirably stated by Abraham Lincoln in one of his messages to con-

gress. He said: "The immense mineral resources of the country ought to be developed as rapidly as possible. Every step in that direction improves the resources of the government and lessens the tax burdens of the Extraordinary measures should be adopted to promote such development."

by a large number of influential people. They hold to the theory that insofar as possible the mineral requirements of the nation should be obtained from abroad in exchange for surplus agricultural crops and manufactured products, improving the markets for such and preserving our own undeveloped plies of low grade manganese ore mineral resources for uses of posterity.

This school of thought seeks rigorously to discourage new prospectopment of any new ore which may be discovered.

For this reason, nearly every move to improve the position of bearing material in the form of present-day western prospectors brucite, near Luning, and of maghas been more or less vigorously nesite in the Moapa Valley and opposed by representatives of old other places, will soon be investisettled areas and conservative pop- gated by the Bureau of Mines exulations of the nation.

complished. An annual increase of metal magnesium and magnesia re-\$38,000 has been provided during fractories in this state. the past three years for development of geophysical methods of lo- air conditioning and cooling decating hidden mineral bodies :

appropriation of \$10,000 per year known as vermiculite, a micaceous has been made to provide for a material that expands greatly on study of possible extensions of being heated. The largest now demineralized areas on the Comstock veloped deposits of vermiculite are lode and in other favorable dis-located in Montana. tricts in Nevada.

currences of underground water at expansion. Samples from ledges comparatively shallow depth has recently discovered in southern Nedefinitely been demonstrated in vada weigh only 31/2 pounds per places where no surface water cubic foot when similarly treated supplies were available.

and thorough work of Dr. F. W. opened to a commercial size, an-Lee of the U. S. Geological Survey, other new industry seems possible the science of geophysics, as applied of development. to prospecting, has made great ad- Lack of space prevents further vances in recent years.

ments developed by Dr. Lee was gation in the state. made in the Groom district, on the Through appropriations inserted Nye-Lincoln county line, two years in the fiscal measures of the inago, which clearly showed the lo- terior department by the writer, cation of a strong vein of galena most of the above mentioned reore which had been lost by the sults have been accomplished and mine operators through faulting of a number of experimental efforts the earth structure.

opened by prospectors who largely locate and determine the extent mineral producer of some magni- ences in Nevada.

Ruth Copper Pit A World Wonder

Second in volume of ore production among American porphyry copper mines, the properties of the Nevada Consolidated Copper Corporation at Ruth and Copper Flat, together with its 18,000-ton mill and smelter at McGill, in White Pine county, typify the progress that has been made in economic metal recovery from low grade ore.

Prospectors were led to an outcrop of a gold-bearing vein in the district by Indian John in 1867 and

tude may be the result.

There are two promising occurences of tin-bearing ore known to exist in northern Nevada, one in Lander and one in Pershing county. In Clark county there are indications of an extensive belt of nickel bearing ore.

Both tin and nickel have become of increasing importance as strategic war minerals, in view of the threatening war situation abroad, and a geophysical exploration of A contrary point of view is held the above mentioned areas might well result in the development of supplies most valuable to this country in case of international conflict.

> Another valuable undeveloped industry for Nevada lies in the manufacture of the two metals, manganese and magnesium. Large suphave long been known to exist in many parts of the state.

The recent development by the U. S. Bureau of Mines in the Nevada ing for minerals on the public do experiment stations of a successful main and to prevent any material and cheap method of beneficiating governmental assistance to devel-these low grade ores into a high bodies grade product is one of the real achievements of that organization.

Very large deposits of magnesium periment stations, looking to the Nevertheless, much has been ac-future industrial production of the

The rapid increase in the use of vices has created a market for one For a similar period an annual of the best of heat insulators,

This material weighs an average The existence of numerous oc- of six pounds per cubic foot after and are a correspondingly better Largely through the painstaking insulator. If these deposits can be

discussion of numerous other in-A trial of some of the instru-teresting lines of mineral investi-

are now contemplated, or are being This ore body was recently made by governmental agencies to acted on the evidence given by the and industrial possibilities of other geophysical instruments. A new even less known mineral occur-

thereafter only small scale work was conducted on gold, silver and lead prospects. It terest was attracted to the copper belt, eight miles in length and a potentialities of the Copper Flat mile to nearly two miles wide. and Ruth areas.

Whereas mining of copper ore from the world's largest copper porphyry deposit to be developed, that of the Utah Copper Co., Bingham Canyon, Utah, involved the grading-down of a mountain, the reverse problem was presented in mining low grade ore in the Ely area.

This has involved excavation by a series of benches, making the world's largest man-made pit or open cut, now over 800 feet deep at the lowest point, a mile long and a half-mile wide.

This great pit is said to produced considerably more 175,000,000 tons of material,

cluding nearly 80,000,000 tons of porphyry copper ore, as early estimates of a total of 26,was not until around 1905 that in- |000,000 tons in the entire copper

> Although the ore contains little gold and silver, the enormous tonnage treated has made the Nevada Cons. one of Nevada's largest producers of precious metals. Nevada Cons. Copper Corporation is a subsidiary of the Kennecott Copper Corporation. Daniel C. Jackling is president and J. C. Kinnear is general manager, with offices at McGill.

Counterfeit paper money is more than 800 years old. and samples of the first "phonies" will be on display at the 1939 Golden Gate Interthan national Exposition at San Fran in- cisco.

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