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845 North 2nd Avenue,
Phoenix, Arizona.

January 24th, 1929.

Report on the Osage Gold Mines.

- Location. These mines are situated about one and a half miles west of the Howard Post Office at Cave Creek, in the Cave Creek Mining District, Maricopa County, Arizona. Their distance from Phoenix about thirty one miles in a northerly direction is, but for the last mile and a half, over a very good highway. At a slight expense this last mile and a half can be overcome. At one time there was a good road over it, and this only needs some minor repairs to be made passable again.
- Topography. The local topography consists of a series of low lying hills, which attain an elevation of six hundred feet above Cave Creek. They are easily accessible at all points, and permit mining operations to be carried on without drawback of any kind.
- Transportation. Owing to the excellent condition that the highway is kept in, the cost of freighting to and from the mines will not exceed \$5.50 per ton.
- Water. Water can be developed on the east end of the property, in abundance for all camp and milling purposes.
- Geology. The vein upon which the locations are made is a well defined fissure averaging between four feet and nine feet in width. It stands perpendicularly between schist walls; the

schist lying on a granite batholith. This is the formation in which all the other ore deposits of the region occur, and which bear evidence of having been worked in the early days by Mexican miners. It is a favorable condition for the occurrence of gold, and from the appearance of the ledge in the bottom of a seventy foot shaft I examined it gives promise of permanency.

Development.

The development work consists of a shaft, started at the summit of the hill on which the claims are located, which has attained a depth of seventy feet; at the bottom of it a drift has been run for a distance of twenty five feet towards the southwest. At this point the width of the ore body is nine feet between walls. The material is a combination of quartz, jasperoid and spar, heavily impregnated with iron oxides. As an ore body the appearances at this point are good, and they fully justify the expenditure of money to further develop the ore body.

At a point one hundred and seventy five feet lower, a crosscut tunnel has been driven in order to intercept the vein. It has now reached a distance of three hundred feet from the portal, and if continued would attain its objective as the vein is persistent and there can be no doubt that it would go to a considerable depth before any change in its character took place.

Upon continuing the crosscut tunnel and striking the vein, the ore could be mined from it at a very low cost. Because of the perpendicular trend of the vein it would be easily mined and the ore coming down by gravity, little handling would be called for.

Ore Values and Treatment.

The gold is free to the extent of 80% of the value of the ore, with the balance of 20% being in the form of iron sulphides. The sulphides will doubtless increase from the crosscut tunnel level, but they will be amenable to the simplest forms of concentration, either table or flotation

In places there are values of \$15.00 per ton in gold found across widths of four feet, and again there are bunches of high grade gold rock coming into the vein to which little attention has been paid as it is desired to depend on a stable supply of good average milling grade for a reduction plant. From all appearances this expectation will be realized, and when it is there are no economic drawbacks to the operation of the property, which in all respects is worthy of favorable consideration.

Respectfully submitted,

(Signed)

Arthur C. Simkins,

Mining Engineer.

TO WHOM IT MAY CONCERN:

For your information concerning the property of the New Era Gold Mining Company, I am pleased to submit a sketch of the property as I view it, and this from the standpoint of a practical man or operator, having myself conducted development work on the property under contract with the original owners of the property.

The property in question consists of two claims, the Osage No. 1 and Osage No. 2, covering 3,000 feet of the exposed vein and a shaft has been sunk to a depth of 60 feet at a point where the end lines of the claims join, and aside from other workings of minor nature, there is also a crosscut tunnel about 300 feet in length which, if continued for probably 100 feet, will intersect the main ledge or vein. In driving this tunnel we encountered, about midway of its length, a blind vein or body of ore about twelve feet in width, which from indications would average from \$6.00 to \$10.00 per ton.

The main ledge, which is exposed for a distance of 3,000 feet, the general average width of which is easily ten feet, will, based upon the shaft samples, assay \$15.00 a ton.

The main vein runs in a northeast-southwest direction and lies between contacts of schist and pink shale, and is a continuation of the Bronco or Mother Lode of the state, which

in encountering the granite about six miles east faulted and its general course was diverted several degrees and the main Mother Lode from this point for possibly twenty miles appears in three projections, the property of the New Era Gold Mining Company being on the middle or center projection. The Bronco Ledge, I have been creditably informed by men who know, runs from the Continental Mountain a hundred and fifty miles through the country, crossing the east fork of the Verde close to Little Green Valley. In various places it shows gold, silver and copper.

I consider this property one of the most promising in the district, and if proper facilities for reducing its ores are installed, will amply reward its stockholders.

The property is situated in the Cave Creek Mining District, thirty miles north of Phoenix, and is reached by a well improved highway which runs within a mile and a half of the property. There is also an ample supply of water for reduction works of any size which may be imagined, and suitable for domestic use at all times, in the main creek one-half mile east of the property.

The New Era Gold Mining Company is capitalized for \$600,000.00, represented by 600,000 shares of the par value of \$1.00 each. For the purpose of further development a permit has been procured authorizing the sale of 30,000 shares at twenty-five cents a share.

Respectfully submitted,

W. H. Linville, President
New Era Gold Mining Company.

845 North 2nd Avenue,
Phoenix, Arizona.

January 24th, 1929.

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Mining Engineer

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