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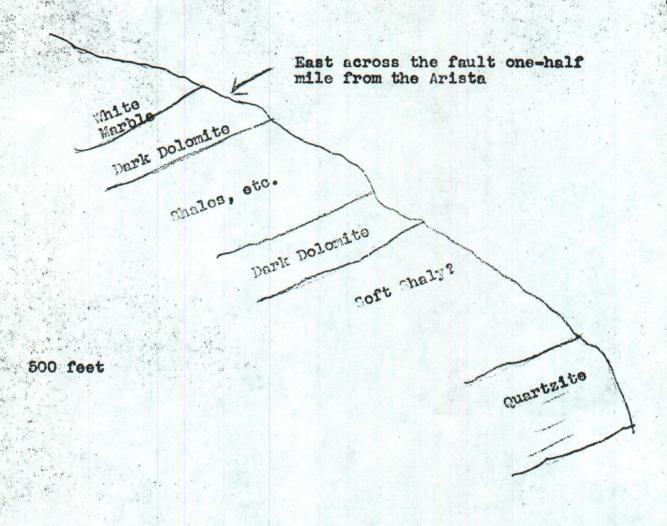
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- (15) Two main quartz veins taper southward. But they show strongly again further south.
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- (24) A little quartz in stringers over width of 30 feet.

 A few small colors, says Collecott.
- (25)-(26) A steep fault, shifting the west side northward, at least one mile; the section east of the fault is somewhat as follows:

(See page 4)



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- (28) Dark dolomite (in merble?).
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- (A) The known oxidized values are in soft, pulverulent
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 place would weather low. The natural trench (16) is
 therefore a good place to get into.
- (B) The quartzite shale contact near which the hole (23) is located has a good chance for a "spread". So also have some of the individual beds. The veins cut a variety of beds and rocks at rather flat intersections. The strongest parts of the veins have not been explored at their intersections with the top and bottom of the main quartzite.

Method of exploration

Trenching, costing \$5,000 to \$10,000.

Terms

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Now, 100,000 at 10 cents

In six months, 100,000 at 15 (?)

In one year, 100,000 at 20 (?)

In three years, 451,000 at ? " the proceeds to be used in evelopment and equipment.

The record of the district is not such as to encourage any sacrifice to get this property. Were it not in sediments and therefore, perhaps, as different affair from the Montgomery-Choshone etc., there would be a very hard prejudice against it.

East across the fault one-half mile from the Arista

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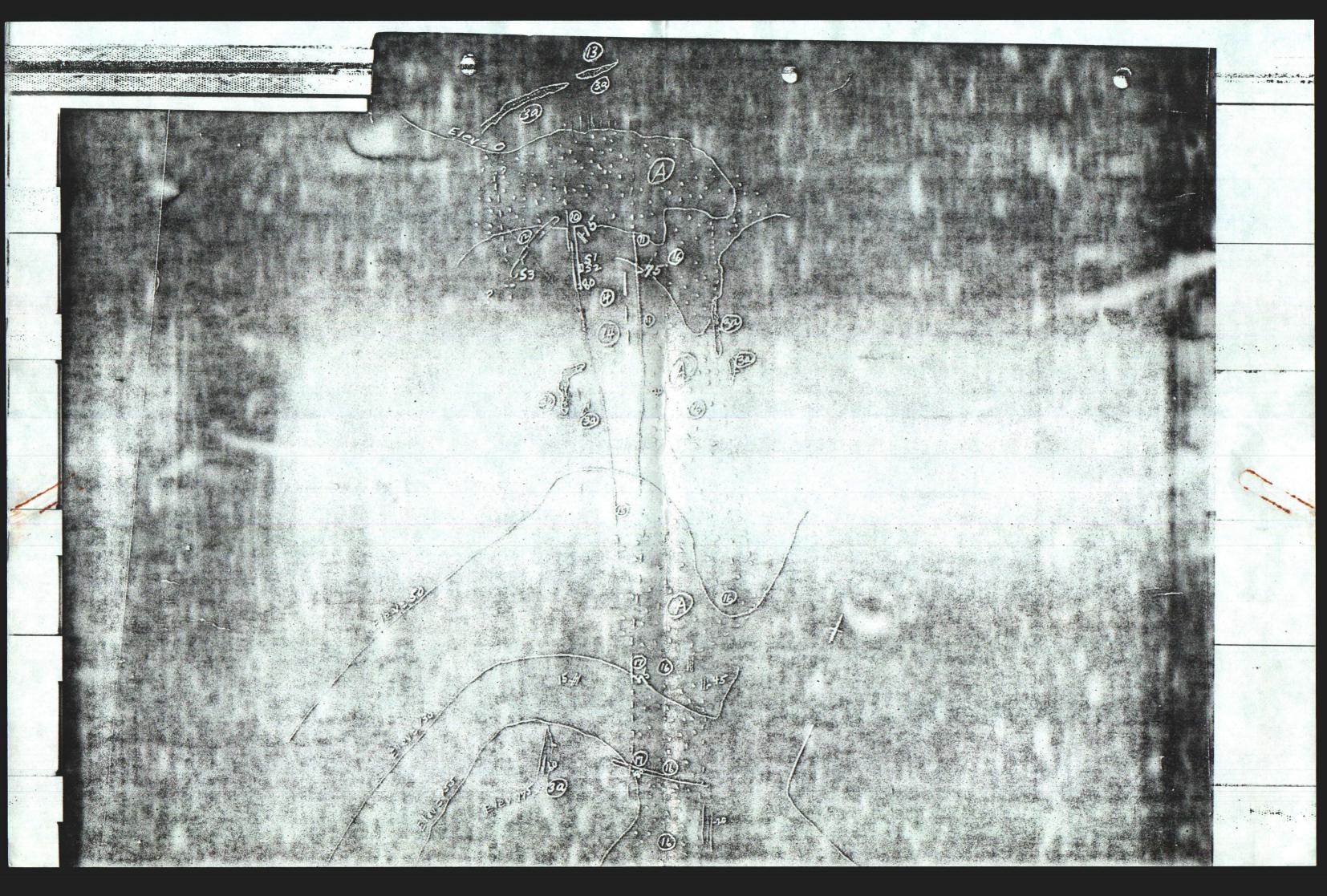
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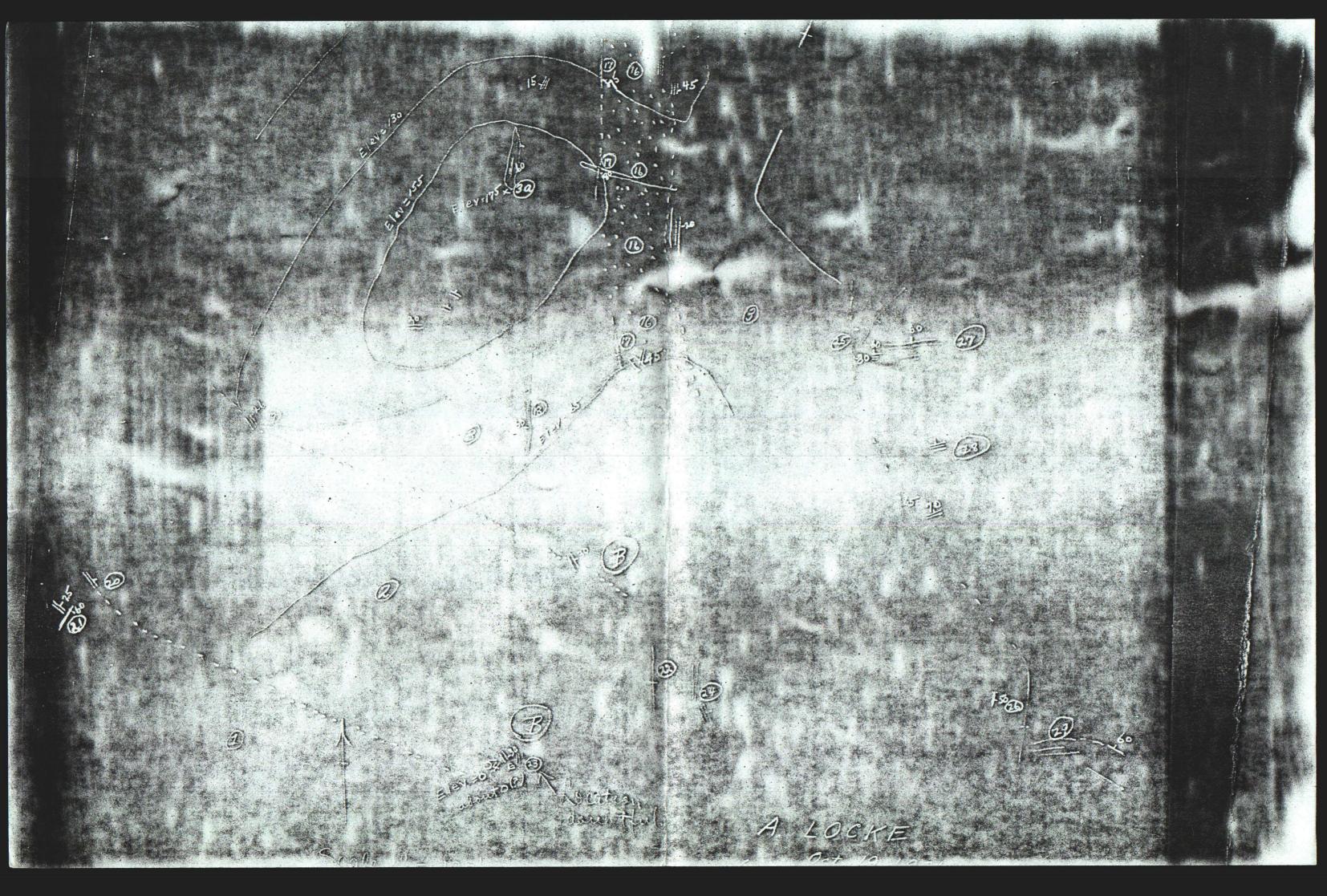
In six months, 100,000 at 15 (7)

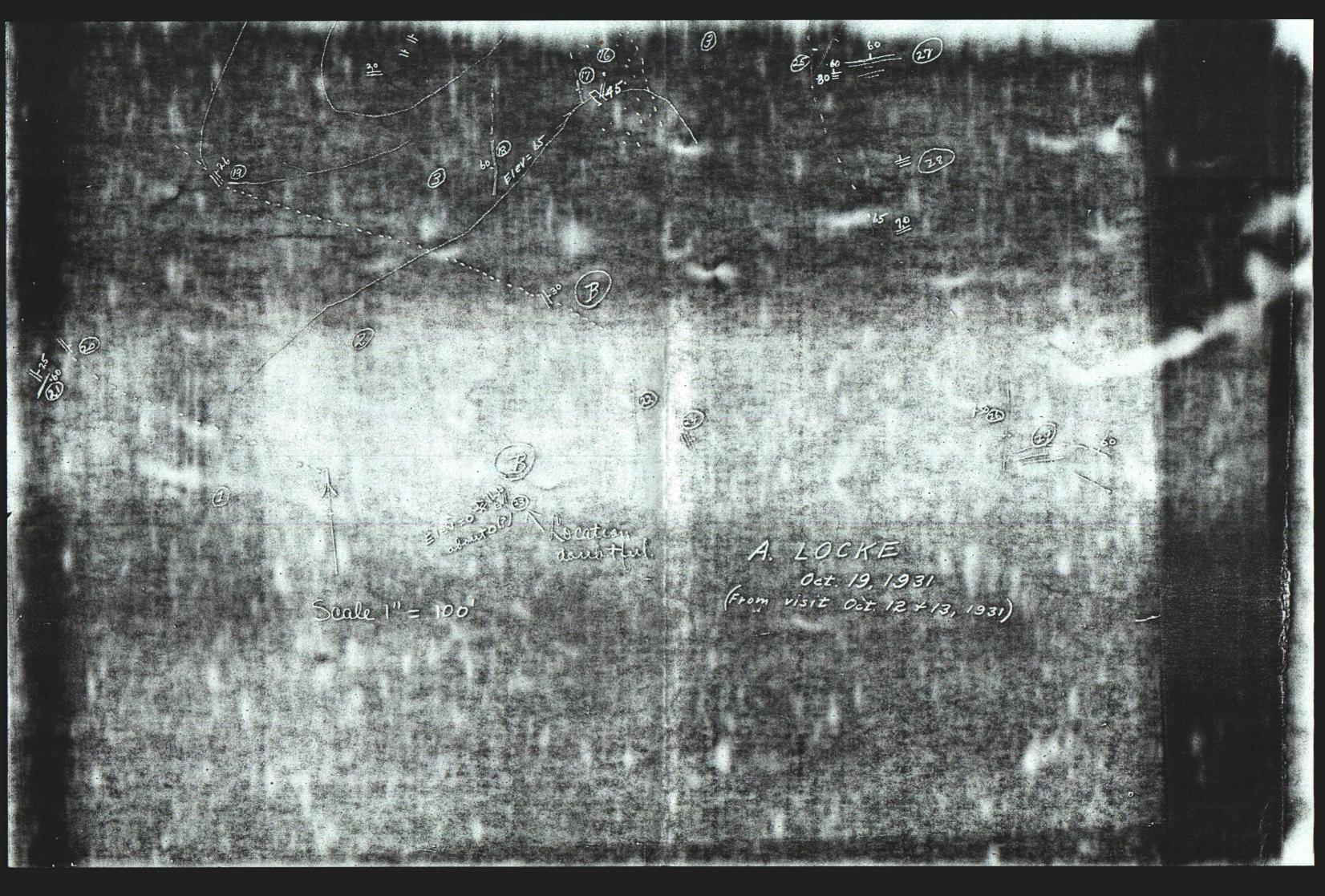
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REPORT

ON THE ARISTA GOLD MINING COMPANY

MADE BY BYRON N. JACKSON

FOR THE ARNOLD EXPLORATION COMPANY

INTRODUCTION

This property lies about eight miles south of
Beatty, Nye County, Nevada, in a spur of the southwest slope
of Bare Mountain, and consists of thirteen claims and two
fractions, unpatented.

GEOLOGY

A north-south fault, dipping easterly, lies almost
along the side of the Paymaster and Contact claims. West of

A north-south fault, dipping easterly, lies almost along the side of the Paymaster and Contact claims. West of the fault are interbedded limestones, limey shales and quartz-ites. The general dip, where undisturbed by the fault, is N. 17° E. 25°; but in the vicinity of the break these beds have been caught in the drag and bent, the combined effect of drag, dip of beds and contour of the country bringing the outcrops almost parallel with the main fault, as is shown by three beds of limestone, called locally "buckskin lime" which serve as markers. These beds are well defined just north of the property and the highest is faulted out in the canyon wash in the north end of the Paymaster claim.

An east-west fault zone determines the course of the main canyon in the northern section of the Paymaster and cuts across the Star and Fairweather claims.

A northeast-southwest series of faults is well defined, especially in the Gold Ace ground, which lies to the west of the Arista, and is represented by two faults in the northern part

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of the property. A weaker, rather poorly marked northwestsoutheast series is perhaps indicated by the gully at the
entrance of the Paymaster tunnel. At this point a fault of the
northeast-southwest series is occupied by a narrow vein. This
vein is cut off by a break more or less parallel to the main
fault and displaced about 25 feet down hill. No attempt was
made to work out these faults in detail.

The Arista vein is probably a stock work in a shear zone lying between a series of faults west of and in general parallel to the big fault at about 600 feet distant. This shattered zone is from 75 to perhaps 200 feet wide and is full of quartz veins varying in thickness from a knife-edge to 15 or 20 feet. The shales and quartzites lying within this area have been altered to a great extent, the shales in many cases being completely replaced by silica. The gold occurs in the quartz veins, the metamorphosed shales and quartzites, none being noted in the unaltered rock.

The silicification of the mineral-bearing zone causes it to outcrop strongly above the softer surrounding strata. At about the center of the common side line of the Link and Contact claims the zone appears to branch. The main zone keeps its general direction, the branch bearing westerly at a slight angle.

The most common minerals are calcite, magnetite, hematitie, limonite and pyrite with small amounts of aragonite and traces of copper minerals.

About 1500 feet to the west and 300 feet lower down are the mineral-bearing beds of the Gold Ace outcrop. These beds should encounter the sheared zone at a moderate depth and,

the mineralization being similar, the ore-bearing solutions that mineralize the Gold Ace probably filtered out along the soluble limestone beds from the same source where the main channel appears to be the shear zone on the Arista.

EXISTING WORKINGS

the zone sampled contains, besides a number of small cuts, two prospect holes about eight feet deep, a short tunnel, prospect shaft, and surface workings on the Paymaster claim and the "high grade shaft" on the southern part of the Link. All samples are either cropping samples or from shallow cuts a foot or two in depth with the exception of six as shown by the descriptions listed. Samples Nos. 1, 13 and 15 show sulphides. All samples were panned and the estimates checked against assay results as a basis for estimating the content of other samples which were panned but not assayed, the samples assayed being between one-third and one-fourth of the total. All of the panned samples are now shown on the assay map.

The ore in the high grade shaft follows a shale bed downward along a small fissure. The shale bed has been replaced in part by silica, and in this the ore occurs in small pockets and seams. Narrow, short stringers of quartz drop from the replaced bed. There is no ore left on the east side of the shaft except near the bottom. At the end is a slip cutting off the ore which is again coming in beyond and apparently in a lower bed. A surface cut in the same or a similar bed is further toward the west. The tunnel on the north side is driven partly in the replaced zone and at 65 feet is turned out of this area into the softer shales. At this point a 5-foot winze shows

the ore widening downward. The ore in the winze pans about the same as that taken at the tunnel level for assay. The shales, where not completely replaced, carry quartz stringers from a knife-edge to two feet thick.

Under the big fault on the crest of the ridge there is about 20 feet of quartzite.

SAMPLING

Due to the lack of systematic working sampling is very difficult, and no accurate estimate of the value per ton can be made. Any calculation of the proportion of the replaced and possible gold-bearing areas to the unaltered part is equally impossible. It seems reasonable to expect that the altered rock will contain from \$2.00 to \$3.00 per ton with enough of the richer seams to make about a \$4.00 or \$5.00 mill grade, and that large areas of the altered silicified material will be found.

EQUIPMENT

smith shop and a few tools on the Paymaster together with a mine car and about 100 feet of track in the tunnel. A compressor house with a compressor and West Coast gas engine, both probably in poor condition, and another small building are located on the south end of the Link. About 2000 feet of three-inch pipe have been laid from the compressor to the tunnel on the north side. The compressor might be made to serve, but the gas engine will probably have to be replaced.

DEVELOPMENT

The best way to carry on preliminary development work would be to let a contract to some one who had his own

equipment. Failing in this, a portable outfit should be rented and the work contracted on the basis of power and drills furnished by the company. A light truck for hauling water and supplies will be necessary.

Development work should be done by surface cuts crosscutting the shear zone, followed by tunnels driven as low down
as the nature of the ground will permit. Cross cuts would then
be made from the tunnels across the ore-bearing zone. The surface cuts should cost about \$5.00 per linear foot and the underground work \$10.00 per foot. Five hundred feet of surface cuts
together with 500 feet of tunnel and 800 feet of cross cuts
would be sufficient for the preliminary work.

The alternative methods of diamond drilling and churn drilling would not be satisfactory because of the alternate hard and soft layers and the presence of high grade seams and pockets, the extent of which could not be determined.

CONCLUSIONS

The general distribution of the values in the shear zone and its area of some 1700 feet long by 100 to 200 feet wide point to the possibility of a sufficiently large tonnage of mill ore to warrant the risk taken in developing the property. The high grade ore occurrences are interesting, but the speculative value of the prospect lies in the possibilities of a large tonnage of low grade ore.

The working plan should be as follows: Surface trenching for the selection of a tunnel site, the driving of 500 feet of tunnel and 800 feet of cross-cuts; further procedure to be

determined by results.

If the north side should be selected, advantage could be taken of the existing workings.

This work would be undertaken with the expectation of blocking out extensive areas of ore averaging \$2.00 per ton or better. Conditions on the property are such that opencut or glory-hole methods could be used permitting large scale operations at very low working costs.

Should it be found that the average gold content over large areas is insufficient to warrant such operations, there still remain the bunches, seams, and small veins of high grade ore known to exist on the ground; If a sufficient number of these were opened up to allow of selective mining, ore of a good milling grade could be secured for operation on a smaller scale.

Respectfully submitted,

Los Angeles, Calif.

July 21, 1933.

Byron N. Jackson

Associate Engineer
ARNOLD EXPLORATION COMPANY

ASSAYS

	Description	Value per	ton
No. 1,	Cropping sample just off Contact claim south end 5 ft. cut	\$3.20	
No. 2,	Cropping sample south end Contact, 5 ft.cut	44.00	
No. 3,	Cropping sample south end Contact, 5 ft.cut	2.40	
No. 4,	Small cut east of powder magazine, 4 ft.cut	2.40	
No. 5,	Surface cut east of shaft cropping sample 5' "	3.40	
No. 6,	High grade shaft half way down west side, 3211	78.00	
No. 7,	" " at end, east side 2' "	10.40.	
No. 8,	W 1/2 open cut north of shaft, half way up hill, 6' cut	2.20	
No. 9,	E 1/2 same cut, 6' cut	1.60	
No.10,	Cut just south of crest 5' face	2.20	
No.11,	Pit on crest cropping sample south side 10'cut	2.60	
No.12,	n n n n n north 41 n	3.20	
No.13,	Bottom 8 ft. pit on Paymster, 18" cut	53.60	
No.14,	Same pit south side 4' cut west of #13	2.20	
No.15,	Paymaster tunnel 65 ft. in 2-1/2 ft. cut	5.17	
No.16,	Same place as No. 13, 3 ft. higher up	4.55	, .
No.17,	20 ft. of quartz under fault in crest, cropping sample	.21	
No.18,	Cut just north of crest 50 ft. west of Nos. 11 and 13 -	5.17	

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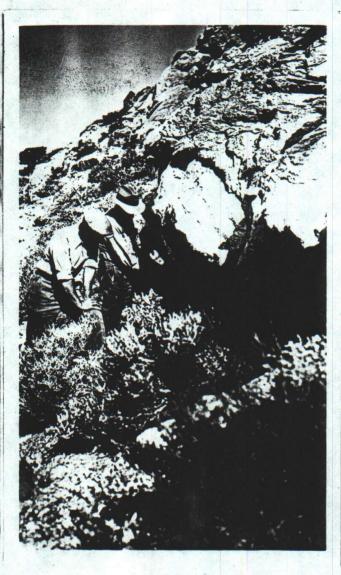
PAYMASTER CLAIM
Looking south at Callicott's
blacksmith shop, showing portal
tal of tunnel and air line
from compressor. High grade
ore has been taken from side
vein at portal of tunnel.
"A" Outcrop of Arista shear
zone. "B" Main fault.
"C" Cut on eastern limit of
Arista shear zone.





PAYMASTER CLAIM [2].

Looking south from hill just north of blacksmith shop, showing outcrop of Arista shear zone and its eastern limit. "A" Outcrop Arista shear zone. "B" Eastern limit. "C" Cut on eastern limit of shear zone.

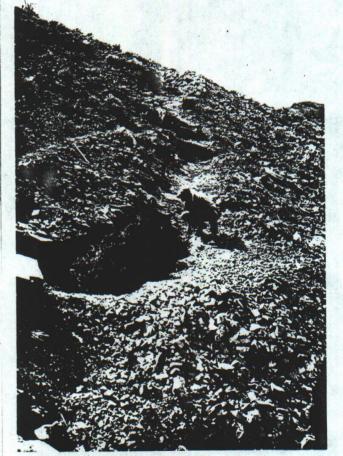


Look

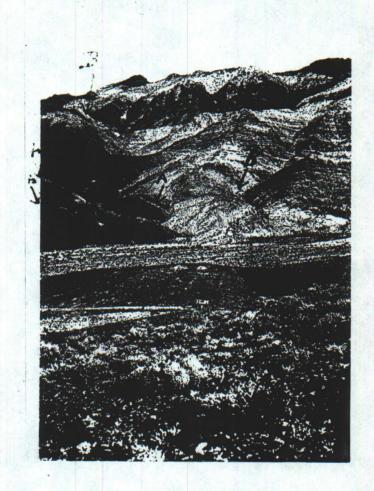
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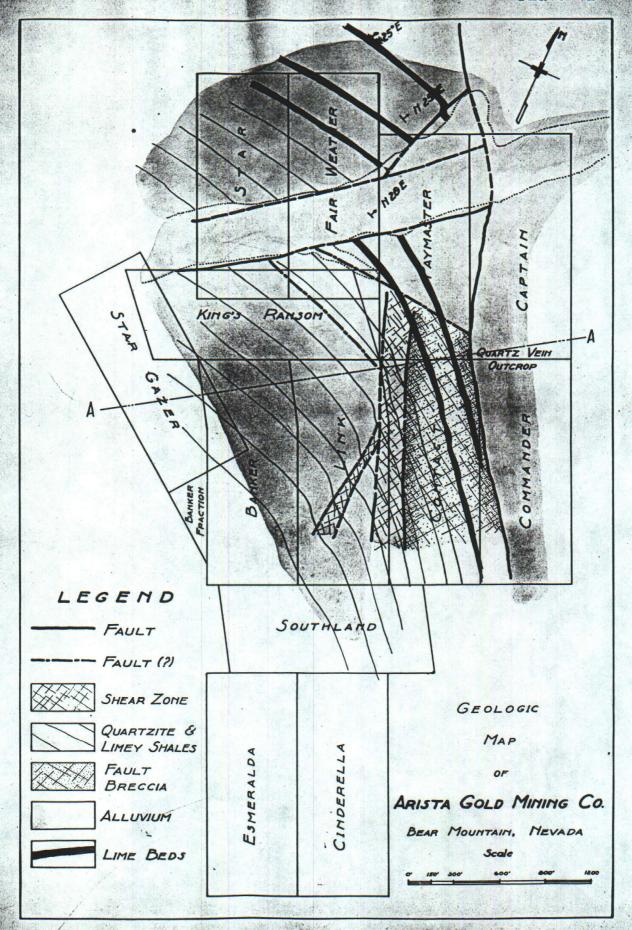
PAYMASTER CLAIM Side vein and prospect hole shown in photo 11 just west of portal of tunnel.



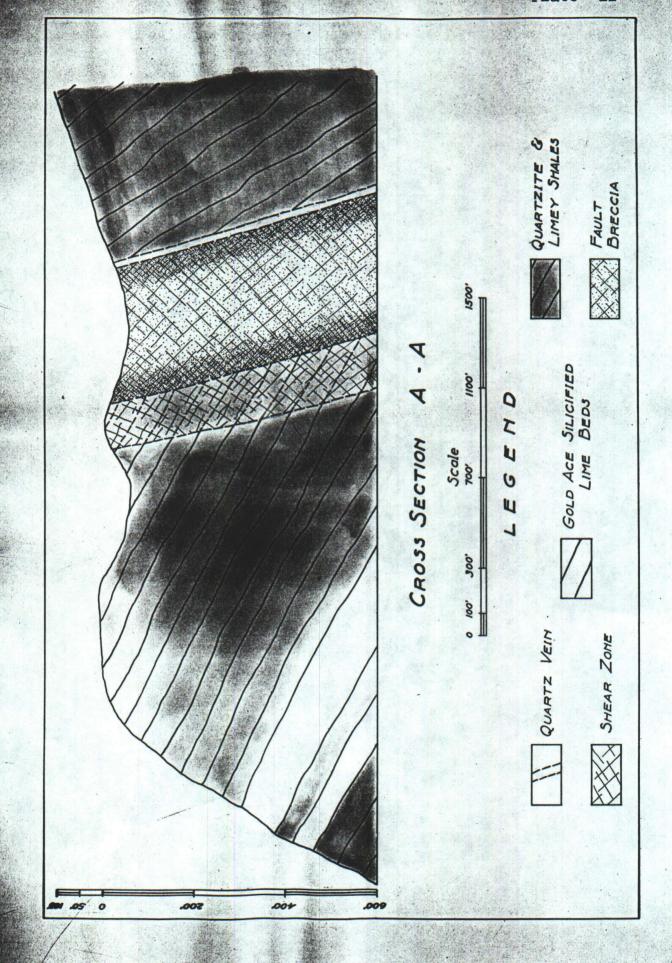
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PAYMASTER CLAIM
Looking north from near top of hill;
blacksmith shop on Paymaster claim in
foreground. "A-A-A" Beds of "buckskin
lime" markers. "B-B" Outcrop of main
fault.



The state of the s



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			Weather			
STAR	Kim	K K K N	15-\$547 15-\$547 14-\$ 22 P. \$1	Blacksmith Shop #16 \$ 4.55 0-4713 \$ 5.560 to \$2 Monument	CAPTAIN Hounment	
	Bunner Bunner Bazza D	BANKER	#9-\$160 #8-\$220-## P. #7-\$10.407 FP. #6-\$ 0.784 F. P\$1.	Pot bottom \$2.00 \$12.\$3.20 \$11.\$2.60 P.\$2 \$fP.\$2 \$fP.\$2 \$1 to \$2 \$2 \$3.40 \$4.\$2.40 \$4.\$2.40 \$4.\$2.40 \$4.\$2.40 \$4.\$2.40	COMMANDER	
LEGE	NO	50	#2.\$4.400 #2.\$4.4000 #1.\$3.2000	P. 11 to 12		
TUNNEL CUT SHAFT P. PAN SA Number FIRE A.		ESMERALDA	CINDERELLA	PAN S FIRE ARISTA GO BEAR MOUN	LODE CLAIMS HOWING AMPLES & ASSAYS OF OLD MINING CONTAIN, NEVADA Scole 600' 500' 1200	

MEMORANDUM REGARDING ARESTA GOLD MINING COMPANY

The geological structure of the ARISTA property is perfect for the formation of huge ore bodies. The existence of such bodies is confirmed by the development work carried on since 1928 by Mr. Wilfrid Callicott, a practical miner, with the concurrence of Mir. J. D. O'Brien, a mining engineer of high reputation and ability.

Extensive surface digging, tunneling, and shaft work have disclosed bodies of ore of FREE MILLING character assaying as high as \$55 gold per ton. In addition, very rich masses of HIGH GRADE gold ore have been uncovered.

It is believed that a cross-cut tunnel driven from a point on the hill beneath the high grade shaft will probably cut a number of parallel veins or deposits within the ore bearing zone, which will give the final proof on the investment value of the property.

It is believed that the initial work will extract considerable smelting ore.
Any ore indicating a value of #25 per ton or more should be sent directly to the smelter. Costs of producing, shipping and smelting smelter grade ore will be approximately \$15 per ton on material running from \$25 to around \$50 in gold.

A thirty ton mill (ten stamps) may be purchased for about \$2500 (good second hand), and set up on the property ready for operation for an additional \$2500. It is estimated that it will cost around \$15000 to place water at the property sufficient for a fifty stamp mill.

Mining and milling costs on a thirty ten (per day) mill basis will not exceed the per ten. About eighty per cent of the gold will be saved by amalgamation; the balance will go into the tailings which will later require a cyanide plant.

Mr. Wilfrid Callicott who staked this property of about 240 acres in 1928 and 1929 has a heritage of six hundred years of minign experience. His father, twenty-five years ago, studied this area and believed in its value. In the meantime other claims were entered. Five years ago it became possible for Mr. Callicott to locate this ground. He invited three other men to work within. Their interests were divided equally. Unified management proved important proved im

The key to the present situation is cohesive control. The door is now oped through a voting trust agreement, to place the affairs of the company in the hands of a competent, cooperative group of men whose sole purpose will be manage the property as a business institution.

June 2, 1935
H. W. Moorhouse/r
Approved:
J. D. O'Brien.

Observations Concerning the Property of THE ARISTA GOLD MINING COMPANY

Situated upon the Western slope of the Bare Mountains, Mye County, Nev.

The Arista Gold Mining Company includes within its boundaries fourteen lode mining claims embracing approximately 240 acres of territory. Those claims were located by Mr. Wilfrid Callicott in the latter part of 1928 and in the beginning of 1929. The claims are unpatented at the present time.

The gold bearing some upon this property was discovered and fully appreciated as to its possibilities by Mr. Samuel Callicott in the years 1905 and 1906.
Mr. Samuel Callicott was a gentleman who possessed great competence as a miner and prospector, having had a lifetime's experience, which involved extensive travel, work and development under varying conditions in many parts of the world. His acquaintence with, and knowledge of this particular area was based upon and involved his vast experience as a practical miner. He fully appreciated its magnitude but unfortunately did not live to realize its actual value.

Immediately after Mr. Samuel Callicott's demise a number of men who had some knowledge of Mr. Callicott's discoveries of gold bearing ore on this ground took up the claims and held them for a period of years: They however, were ossessed of little or no knowledge of mining geology or development. In consequence of which they found nothing worthy of note and were not sufficiently competent to understand the actual nature of the occurences or perform any effective development. They however continued to hold the property for a period of years thereby preventing any other person or persons from taking possession of it. Meanwhile an extensive period of mining inactivity followed and little or nothing from a development viewpoint was being initiated throughout the Nest.

His son, Mr. Wilfrid Callicott, in view of his knowledge of his father's concepts and his personal experience in the mining business devoted considerable time and energy to the discovery of the actual source of emanation of the enrichments

7

of various ore occurrences on this ground and after several years of hard work and preliminary development succeeded in demonstrating beyond contravertability the great importance of the cre bearing structure within the confines of these mining claims. In view of the mineral possibilities of this property it may be reasonably inquired why it has lain practically idles it was due to the fact that on or about the beginning of the year 1929 a corporation known as the Arista Gold Sining Company was formed which took over the property. Unfortunately, as in most corporations the institution was not sufficiently cohesive or cooperative to finance the property on a commendable or desirable basis. In view of the fact that the Corporation was formed upon a 1,500,000 share basis of which 750,000 shares were placed in the treasury and of which 750,000 shares were divided among the incorporators. The result of the division of the stock became more or less chaotic as is usually the case in companies where care had not been taken to preserve the stock or the interest of the parties concerned under business-like pooling agreements or voting trusts.

Motwithstanding the difficulties encountered by Mr. Callicott as a result of the inefficiency of the corporation he proceeded, with little or no essistence, to carry on the important surface development work which the property required.

The results speak for themselves.

As soon as the possibilities of legitimate gold mining became manifest in the year 1928, Mr. allicott perceived the great importance of staking this ground if it were open to location. Subsequent events proved that it was.

STRUCTURAL GEOLOGY

It is a notorious fact that many of the most permanent and most important ore bodies, or the greater majority of them throughout the West are found in the limestones, provided, however, and intrusive rock of some character is found in close proximity, or adjacent to, the fault structures or fissures in the limestone, created by the stresses emenating from the intrusive. Thereby hangs a tale concern-

int the Arista Property. At a point about 2550 feet immediately North of the Arista property a large mass of monsonite-perphyry intrudes the limestones thereby causing a major fault which traverses the limestone in a Northerly and Southerly direction.

The perphyry in its turn created a brecciated or crushed condition of the lime, and converted it to shale; the mineral-bearing silicious solutions readily found access to the crushed zone. Tortional stresses in turn created a number of stress or traveverse faults in the mineralized some on the Easterly side of this major fault: The country rock - the original limestone - has been converted into marmorized limestone or dolomite on the East side of the fault. This condition occurred in view of the affinity of limestone for the magnesian solutions which emanated from the eruptive rocks. The mineral bearing silicious solutions, which in all probability succeeded the magnesian solutions, contributed the mineralization new exposed upon the property to the shales and to the brecciated material. Replacement of the original limestone, of which the shale is composed, - by quartz, occurred as a consequence. In view of the number of contact faults, stress faults, fissures, and crevices existing in this great mineral bearing sone; and the fact that they occur in close proximity to each other and almost in parallel position; together with the additional fact that the circulation of mineral bearing solutions had ready access to the breccieted material: it may be reasonably inferred that replacement of west bodies of the shales by gold bearing warts may be expected with depth and development of the property.

Adjoining the shale and upon the West side of it, a mass of quartzite is found in ontact with the shale, and soluble limestone which lies on the West side of the quartzite. The shales, and the quartzite which comprise the filling of the great fault have been tilted to an angle of from 60 to 80 degrees, that is to say to an almost vertical position; and that condition prevails throughout the length of the property for a distance of approximately 4550 feet. In other words, the mineralized area is visible, prominently outstanding, and can not be mistaken.

The quartrite has also been brecciated and in places shows definite engionment and very important gold bearing masses of ore. The mineralized zone upon the property is several hundred feet in width and wit in which several important ore bodies have been disclosed by surface work. Perhaps one of the most important statements that may be legitimately made concerning this property is the fact that all of the ore discovered and exposed by Mr. Callicott to this date has been of a free milling character. In view of the mining history of such occurences as this: reasonable dependance can be clased upon the expectation of the ore bodies existing upon the arists ground descending to considerable depth, thereby assuring a great commercial future for the property.

DEVELOPMENT

All the development accomplished up to date upon the Arista property by Mr. Callicott justifies the statement that no more inviting gold bearing territory can be found in the Southern part of the state of Mevada. The various tunnels, cuts, trenches and shafts which were sunk by Mr. Callicott or under his direction and in accordance with his knowledge of the ground confirm the statements herein made.

The ore bodies exposed by him indicate continuity, permanence, great, size and give province of enormous capacity from a milling viewpoint. Incidentally, he has discovered, owened up and demonstrated the existence upon the ground of inconceivably rich gold one in a few places. Here it may be stated that while the occurances are essentially of milling character, it is nevertheless true, that very rich messes of high grade "gold one" have been found and opened by Ar. Callicott which will probably be treated as smelting one. And it is reasonable to infer in view of the extensive mineralization upon the property; and upon adjacent property, that important bodies of shipping or smelter one will be encountered during the course of development.

Mr. Callicott has driven a tunnel approximately 100 feet in length on the

solutions having had access to the shale through various channels were probably concentrated to greater and more advantageous effect in close proximity to the faults. Appreciating the mineral possibilities of a fault structure of this character; and in view of the amenability of the brecciated materials, within the crushed sone to replacement and enrichment; it may be reasonably inferred that a cross-cut tunnel driven from a point on the hill beneath the "high grade" shart (as suggested by Mr. Callicott) will probably out a number of parallel veins or deposits within the ore bearing zone and that sufficient depth can be obtained thereon to justify the the statements herein made; and the further prosecution of development work and investment on a large scale.

ECUIPMENT

The property at the present time is equipped with gasoline engine, compressor, a half mile compressed air line and considerable mining impediments. The necessary buildings, roads and various tools now upon the property can be used to advantage.

SUMMARY

After a period of over forty-five years technical and practical mining experience covering various parts of Western America and Mexico the writer believes that the property herein alluded to is one of the most desirable, one of the most advantageous and one of the most dependable gold sining properties I have ever seen. Personal study and observation over a period of years of the Arista property and opinions and statements hereinbefore made are largely based upon the observations made of mining properties throughout Mestern America by the U. S. Geological Survey. The deductions and conclusions of that learned organization with reference to similar mineral occurrences in the U. S. are analagous to my own; and therefore, I realize and appreciate the fact that the milling possibilities of this property may be classified as enormous.

Fairweather claim following a vein adjacent to the shale and in close preximity to the quartitie herein alluded to. Along the course of that tunnel and for some distance in the tunnel, upon the vein, some excellent ore has been encountered from which some assays running as high as \$55 in gold were obtained. At a point approximately 90 feet further than the present breast the tunnel will encounter an intersection of another vein with the tunnel vein, at which point it is quite possible that a very important ore body may be encountered. This statement is made in view of the fact that in. Callicott has obtained some exceedingly important values on the surface of the ground at or around the point of intersection of those veins; meanwhile cross-cutting the ore body from the breast of the tunnel may be prosecuted to advantage; inasmuch as the vein system at that point and in that vicinity is approximately 80 feet in width and also in view of the fact that sufficient depth can be obtained upon the occurrence to assertain the general character of the ore body and thus secure a practical and definite demonstration of the advisability of further procedure at this point.

In close proximity to a sontact fault between the shale and quartitie on the claim known as the Link Mr. Callicott sunk a shaft which has now attained a depth of approximately 50 feet upon what appeared to be a small stringer of very high grade gold ore upon the surface. At the present depth the ore shows many evidences of continuity, bu virtue of its silicious character, or the replacement of the original limestone or shale in the occurrence. This high grade ore in its turn is found in close proximity to a large mass of silicified shale which in many places by panning shows fair surface values in gold. At a short distance from this shaft in a Southerly direction the ore bearing some shows a small displacement by a by a cross fault, which was probably one of the agents which caused the great enrichment encountered in the shaft alluded to; and likewise had considerable effect in the enrichment of the adjoining masses of shale. In other words the mineral bearing