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MUSTANG---MONTEZUMA Nercury Prospects

Esmeralda Co., Nevada

AN APPRAISAL

D. L. Evans 

June 19,1967

J<sub>u</sub>ne 20, 1967.

Mr. Glen Minney. 26 Cheyney Street. Reno. Nevede.

Dear Mr. Kinney:

Attached, please find three copies of our report on the Mustang-Monteguma properties, Esmerelda County, Savada, emanined recentley at your request.

The original and one copy are being air-sailed today to the Mesors. Osb orn in Portland, Orogon.

Aware as I have been of the faith you have had in these properties, my conclusions and negative recommendations have been reached with genuine regret.

Thanking you for the assistance provided on the 7th and 8th. I am,

Sincerely.

6830 ME Breadway. Fortland. Oregon. David LeCount Svens.

#### MUSTARC -- MONTEZUMA Mercury Prospects

### Montezuma District Esmeralda Co., Nevada

#### AN APPRAISAL

#### FOREWORD:

These properties were examined on June 7 and 8, 1967. As noted on sections, this was a reconnaissance survey, with considerable area covered in a short time. Reference is urged to the five plats which accompany this written text.

#### PURFOSE OF STUDY

To appraise the Mustang property was the initial purpose of this investigation. The Mustang property represents the easterly portion of a five mile trend, and had been offered to clients.

Having been advised that Mustang "shows" were without attraction. Mr. Kinny then assured Mr. Marc Osborn and the writer that a deal could probably be made on the westerly portion, the Montesuma property.

Mineralization at the latter was of sufficient interest to justify the cutting of representative samples and the rough mapping of pit area and underlying tunnel.

Our purpose at the Montezuma was to, not only, estimate the size of the mineralized body, but also, to check assertions that the mass would average between 4 and 6 pounds per ton in mercury, with bivalues as high as one ounce of gold.

#### PROGREDURES:

Transportation was available to within one and one half miles of the Mustang property. On the basis of a rough description for the location of the Mustang block, provided by Mr. Pete Mosier (Goldfield miner and prospector). Mustang claims were located. Brunton controlled pacing and intersection developed the partial class-distribution map of Plat II, and the Long-Section Z-Z\*.

Cur approach on foot from the south, from below the opalite bed and then through this mineralized horizon; an examination of discovery pits, along the trend from east to west; and, finally, our return to lower elevations, down slope and east along section Z-Z\*, were the bases for Mustang conclusions and recommendations.

Concerning the M ntesuma Pit and Tunnel area, after an initial study of exposures in pit, samples were cut, as much across mineral-ized dips as possible, with locations chosen on the basis of the three categories, (1) better appearing opalite mineralization, (2) massive opalite without exceptional 'shows', and (3) a soft, gougy, fault-zone, carrying fragments of (1) and (2) in the gouge.

A pecing-Brunton compass traverse was then employed to tie-in sampling and geology, as well as the underlying tunnel, shown on Plats III and IV. The tunnel survey has been supplemented by a survey provided by Mrs. leonora Mullenax, owner.

## CONCLUSIONS:

This analysis concludes that:

- (1) The Mustang property is on the same opalite-replaced horison as the Montesuma deposit. But thinness of opalite, everaging about 37 feet, and weakness of mercury 'shows' (dominantly "paint" where observed) offer little, if any, possibility.
- (2) The same opalite bed at Montesuma has a thickness of 25 feet; red cinnabar occurs in minor amounts throughout, as "paint", with no crystalline cinnabar observed. Qualite also carries persistent, dark-gray, opaque mineralization, a part of which may be the dark-gray mercuric sulphide, meta-cinnabar.
- (3) Our samples indicate an average of 0.47 pounds per ton for the opelized bed at Monteguma. Remaining tonnage should not exceed 33.000 tons, above the tunnel level. Despite claims, opalite carries no gold values.

### RESOLUTION / MELSON

Neither the Mustang nor Monteguma is recommended.

Considering both as representative of the five mile trend, further interest is not advised.

#### LOCATIONS

With reference to our attached Index Map. Plat I. Monteguma claims lie in sections 16 and 15. Township 3 South. Range 41 East. and Mustang claims fall. approximately. in section 6. Township 3 Suth. Range 42 East. Monteguma is the mining district. Length of trend from Monteguma to Mustang amounts to five miles. Air-line distance. Goldfield to Monteguma, is fine miles.

## GENERAL AND MEDICAN CONDUCTORS

#### Access

Road distance from Goldfield to Monteguma is 19 miles; seven miles are paved highway and twelve miles excellent desert road. Goldfield to Mastang, after three miles of desert, graded road, presents difficulties; four-wheel drive is a requirement for the last two miles from the Nevada Eagle.

#### Natural Conditions:

Tear-round operation would be assured. Properties are at 6800 feet. Winter snews do occur, but snow-cover does not remain.

The area enjoys desett climate with hot days and cold nights. Summer flash-floods present the to-be-expected hazards.

#### Water:

Water supply was not investigated. A spring was reported for the Montesuma area, but problems would be anticipated.

#### POWER'S

No power services the mine areas. Nearest supply seems to be at Goldfield, nine miles, straight-line distance.

#### Lab ors

W, ners and mill men are undoubtedly available in the Tonopah-Goldfield area.

#### LEDAL STORIES

Properties are held by Mrs. Leonora Mullenax, of Carson City, Nevada and, probably, associates. The Mustang group of 17 claims has been offered by Mr. Glen Kinney, 26 Cheney's Street, Reno, Nevada.

The Montesuma block, reputedly 20 claims, shares like ownership. It has been reported that the two blocks are centiquous.

However, lack of claim maps prevents a discussion of block details, or the submission of a full claim plat with this report.

#### HISTORY OF PROPERTY AND DISTRICT:

The Montesuma was discovered in 1928 by Hessre. Sweeney and Memillan of Goldfield, according to Nevada Bureau of Mines Bulletin No. 41 (1944). This property, to that date, had no recorded production. The Bureau reported "not enough ore had been found to justify the erection of reduction equipment".

Sweeney and McMillan completed the "180 feet of adit and 175 feet of connecting drifts and crosscuts" (Refer to our Flat IV)

Date of Mullenax claims was not ascertained. Mrs. Mullenax reports that circa-1965 she shipped a few hundred tons to a retort at the Red Rock mine, in the Fish Lake Valley district, results from which were unsatisfactory; and, finally, 2500 tons to the Kollsman furnace at the old B and B property. Flasks of recovery were not specific, although from one source 17 flasks have been reported. If true, such represents a recovery of 0.5 pounds per ton.

The Mustang area was first covered by Pete Mosier, of Goldfield, with his "Spot" group, located on April 22, 1955. Mustang claims are dated July 10, 1965. The Mustang block has no production record.

#### GEOLOGY

One and gne half days of surface reconneissance are inadequate as a bais for detailed description.

Suffice it to say that the two areas have characteristics in common, namely:

- (1) a mineralized horizon, originally a white, soft bed of volcanic ash (called 'tuff), replaced by silica (so called 'opalite'), carrying the red cinnabar and, possibly, the black metacinnabar (both mercuric sulphides), in varying, minor amounts; and,
- (2) a hard. impervious cap rock, above the oplaite member. consisting of silicified, volcanic, fragmental material (called 'silicified volcanic breccia')

Concerning the two properties, the merit per property would depend on the thickness of the original tuff bed (under the cap-rock) that has been spalized, and the amounts of cinnabar or metacinnabar, accompanying the opalization,

In line with the conclusions, listed above, note that:

- (1) The Mustang is considered to have about 3 feet of opalised tuff and the Monteguma a minimum of 25 feet; and,
- (2) the Mustang has scattered cinnabar, mostly "paint" and not the real, crystalline, red, mercury sulphide; and the Montesuma is described as having "paint"-type cinnabar in miner ascunts, and dark-gray mineralization, in part metacinnabar, and a great part not metacinnabar.

Both areas, under the tuff, go to 4ron-stained beds. In the case of the Mustang, these have been classified as soft, bedded volcanic beeccles, without values. At the Montesume, the Navada Bureau of Mines in the 1984 report refers to the red zone as Cambrian 14mestone. This amalysis is in no position to question the Bureau's classification.

Concerning structure, the writer concurs with Eureau conclusions that mineralization is in an area of faulting, much of it post-mineral. Reference is made to our Plats III. IV. and V. and especially the last, a "working premise" to explian the lack of mineralization in the tunnel level. The cross-sections are presented for what thought they may provoke.

In conclusion, note that this analysis considers the owner's assertion that the epalised some, throughout the five miles, is the same unit, justified.

#### DEVILUENMENT

Except for bull-josed discovery pits, properties are without serious development; with the exception, of course, of work shown on Plats III and IV, at the Montesume property.

#### SAMPLES:

Seven samples were cut during the course of examination, all on the Montesuma. None were taken from the Mustang. As for the latter, thinness of opalite and weakness of cinnabar appeared to not justify sampling. This was a matter of opinion, based on past experience with deposits of this type.

Samples, and assay results, in the Montegume pit area are listed below. Locations are shown on both P'ats III and V. Values have been placed, only, on Pat V. the cross-sections.

### Sample and Assay List

Sample Number	Thickness Represented	Pounds/Ton Moreury	Cances/T Gold	Ounces/T Silver
1448	6 feet	0.14	MAL	141
1449	10 feet	0.04	14.1	MIL
1450	10 feet	0.08	101.1	0.04
1451	6 feet	0.04	<b>11.1</b>	0.03
1452	10 feet	0.18	Trace	Traco
1453	10 feet	0.40	15000	Trace
1454	Dump; Sel- ected mat- erial.	1.60	Trace	Trace

Sample Descriptions are as follows: (See Plats III and V)

Grown All	Better appearing Opalite mineralizations
1448:	Main pit; north face; series of cuts across apparent banding, for 6° of depth from top of exposure.
1451:	Main pit; north face; same proceedure for 6° of exposure at bottom of some.
Group (2)	Massive opalite without exceptional shows:
14521	Main pit; east face; series of cuts across opalite for upper ten feet of exposure.
1453:	Main pit; east face; same proceedure for bottom ten feet of exposure.
Group #31	Gouge or Fault senes

top ten feet of fault zone.

Northeast corner of pit; series of cuts for

1449:

1450: Northeast corner of pit; same proceedure for bottom ten feet of fault zone.

## Miscellaneous (Refer to Plat III)

1454: Grab sample of mineralized material from dump. south of south trench; mineralization apparently from bottom of trench (now covered) and not from walls of trench.

### KONNAGE POSSIBILITIES:

Values (exclusive of 1449 and 1450 in the fault some) provide an arithmetic average of 0.47 pounds per ton. This does not indicate "Ore", since "Ore" in fers material that can be mined at a profit. There are no ore reserves.

Original tennage of opalite of low-tenor amounted to about 37,000 tons. This is based on (1) the structural interpretation of Plat V. (2) the square area of opalite on section X-X\* for 200 feet of possible strike extent, and (3) the square area of opalite on section Y-X\*, for 100 feet of strike extent; and, finally, (4) a factor of 11 cubic feet per ton. About 4000 tons having been mined from pit leaves, therefore, 33,000 tons.

### TREATMENT COSTS PROFIT OR LOSS METAL PRICES

In view of the low tenor and limited volume of this material, and lack of economic possibilities, these major headings are not considered.

## RECAPINGLATION

- 1. Samples are considered truly representative, and the 0.47 pound estimate a fair value for the Montesuma mineralization. The closeness of the estimate of 0.5 pounds, based on a reported tennage treated and recovery, is considered a rank coincidence. We cannot attest to the accuracy of these production figures.
- 2. The 37.000 ton figure is that reserve which might have been available for cheap open-pit mining, above the lower tunnel level, had grade w rranted mining. It is believed that additional mineralization exists below tunnel level, but no improvement in grade would be expected, and increased costs would be anticipated, because of underground mining requirements.
- 3. Montesuma samples have been assayed by Metallurgical Laboratories of San Francisco, headed by Mr. Hartin Quist. Mr. Quist, former Chief Chemist for Abbot A. Hanks. Custom Assayers of San Francisco, has also been Chief Assayer for the New Idria Company, this country's leading mercury producer.

The writer has on occasion had identical pulps analyzed by Met-

allurgical Laboratories. Abbet Hanks and the Nevada Bureau of M nes. with the three in concurrence on mercury determinations.

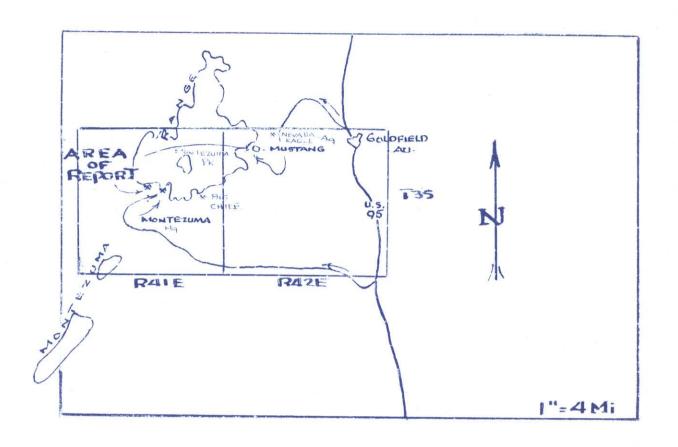
4. Reference is again made to conclusions and negative recommendations.

Respectfully sub .itted.

David LeCount Evans

June 19, 1967

1700 Royal Drive. Reno. Nevada 89503



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MONTEZLIMA DISTRICT ESMERALDA COUNTY NEVADA

# INDEX MAP

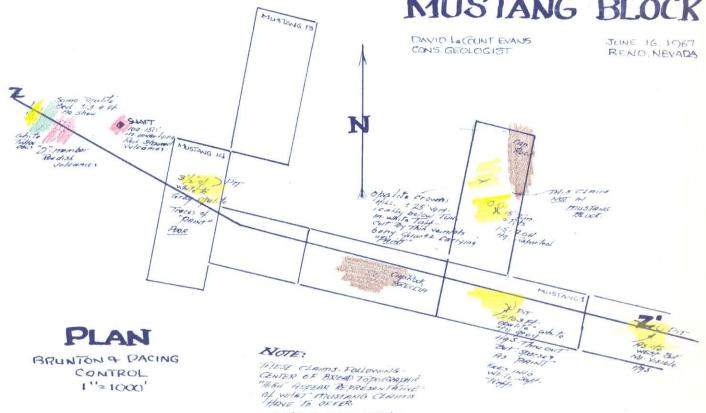
DAVID LECOUNT EVANS

JUNE 16,1967

# MONTEZUMA DISTRICT

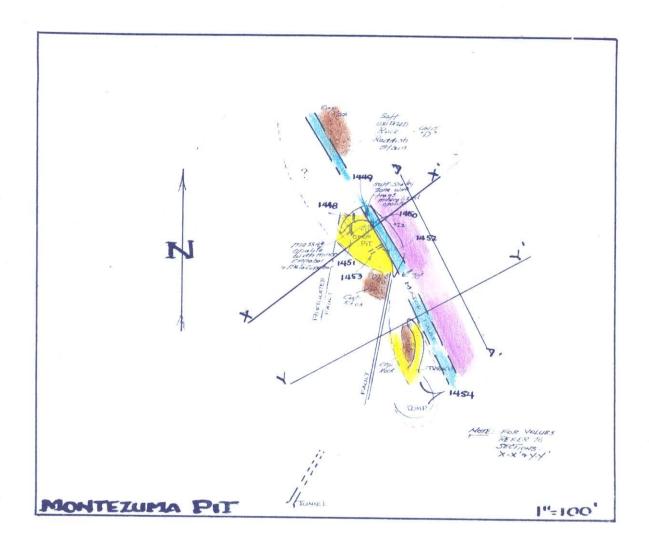
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# MUSTANG BLOCK



17 CLAIMS MAKE UP THE MUSTANG BLOCK.

Ap Rock Volume Brosera Short Spark Soft Brown Soft Brown Took SECTION 2-Z' 1" = 1000



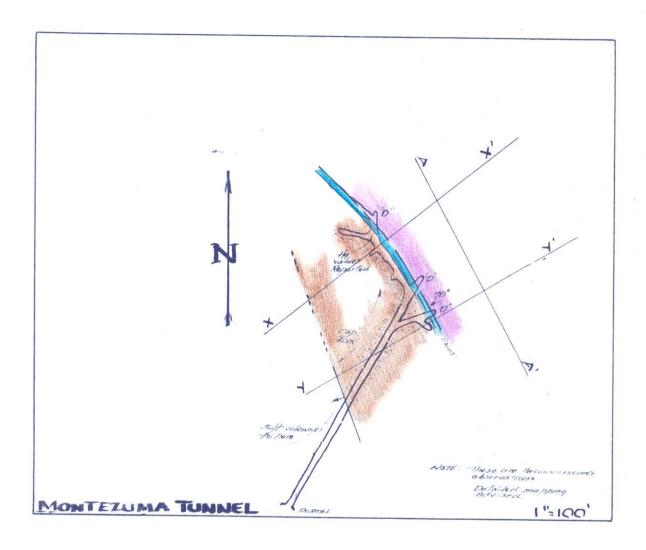
MONTEZUMA DISTRICT
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# MONTEZUMA MINE

DAVID LECOUNT EVANS CONS. GEOLOGIST.

JUNE 16. 1967 RENO. NEVADA

NOTE: RAPID RECONNAISSANCE USING BRUNTON COMPASS & PACING; SUB -JECT TO ADJUSTMENT.



MONTEZUMA DISTRICT ESMERALDA COUNTY NEVADA

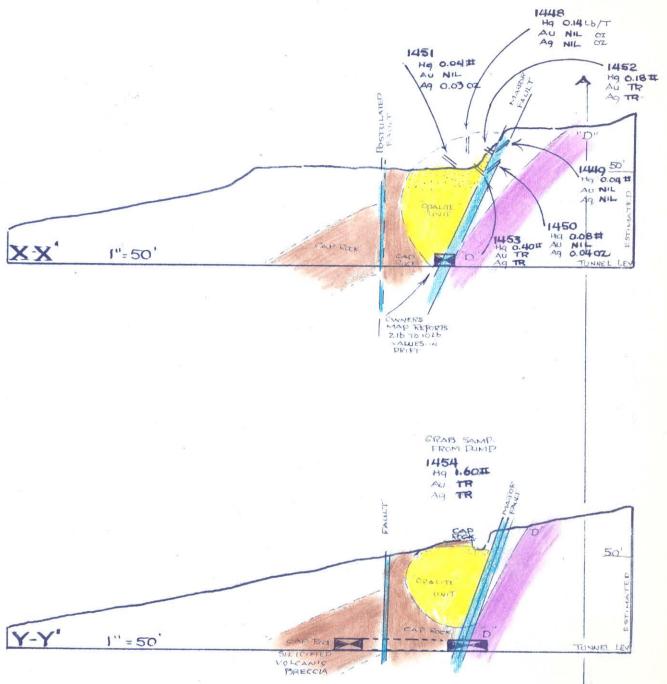
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MONTEZUMA COUNTY
ESMERALDA COUNTY
NEVADA

## MONTEZUMA MINE

DAVID LECOUNT EVANS

JUNE 18, 1967 RENO. NEVADA

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