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James Doyle Sell Mining Collection

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HOG CANYON PROPERTY

Gila County
Arizona
(Fact Sheet Summary)

ASARCO Incorporated

JUN 17 1991

SW Exploration

1. LOCATION

- * Located approximately 10 miles south of Payson, Arizona, and 1/2 mile east of the community of Rye.
- * Situated in T9N, R11E, sections 16, 17, 20, and 21
- * Access is excellent via U.S. Highway 87 and a short segment of unpaved road.
- * Much of the Property is covered with Quaternary gravels and a scattering of light brush; thus, exposures of mineralization and basement rocks are confined to predominantly washes and ravines.

2. PROPERTY

- * Comprises 18 unpatented mining claims by location
- * Workings include two past production shafts, one exploration shaft, one exploration adit, one production drift now caved; dozer cuts within the West Bros. working area, and scattered hand dug pits.
- * Production history is minimal; a 1933 report by a J.M. Shiner, E.M., clearly indicates that production from the West Bros. area was significant, consisting of selectively mined hi-grade gold ore.

3. GEOLOGIC SETTING

- * A PreCambrian volcanic pile, predominantly andesite, hosts the mineralized areas. A younger intrusive stock lies adjacent and east of the Property, resulting in complex structural geology in the Hog Canyon area and in proximity to the contact zone.
- * The volcanic host is markedly affected by intense structural activity, including low-angle faulting, associated brecciation, shearing, and intense alteration. A large mafic dike cuts the volcanic host in the Hog Canyon area with apparent brecciation on either side of the dike; the dike is several hundred feet wide

- * Mineralization and alteration, simply put, include quartz veining in the West Bros. shaft area, together with an illite-kaolinite alteration envelope overlying the silicified zone, extensive brecciation in the Hog Canyon area, including both chalcedonic and tectonic breccia. The tectonic breccia has been cemented with calcite and silica. Mineralization of significance includes wide chalcedonic ribs that parallel Hog Canyon on the north side of the wash. These ribs are roughly 20' to 30' thick and in places are sheared and brecciated. East of the Hog Canyon wash lies chacedonic breccia and a jasperoid quartz which is fractured and filled with secondary silica and limonite.
- * Scattered throughout the Property within the many washes are partial exposures of the illite-kaolinite alteration zones.
- * Most previous mining activity has occurred in the quartz veins, and in Hog Canyon at structural intersections.
- * At the Hog Canyon shaft a flat-lying silicified shear zone is intersected by a near-vertical quartz-filled fault zone, and at nearly right angles. It is apparent that the better gold values were found at this intersection. Such structural phenomena may be useful as a guide in future exploration programs.

4. POTENTIAL

- * No proven reserves are known at this time
- * The complexity of the geology, in particular the structural occurrences, together with limited sample data and previous mining activity, indicates that several areas within the Property should be targeted for detailed exploration. The following points to consider are worthy of mention:
 1. Previous gold mining suggests that gold is present within the "system"
 2. Extensive "plumbing" is indicated by the presence of large breccia/stockwork zones, wide ribs of chalcedonic quartz, crosscutting veins and faults, and the occurrence of widespread illite-kaolinite alteration zones.
 3. The presence of an intrusive stock in proximity to the mineralized areas
 4. Dikes intruded into the volcanic host

5. Large areas of bedrock covered by alluvium
6. Excellent access and year-round location
7. Year-round availability of water, and proximity to power and supplies

* A significant aspect of the sampling completed to date lies in the fact that every sample taken has shown detectable gold. Not all samples are ore grade; nevertheless, the detectable presence of gold in all samples provides further indication that the Hog Canyon "system" is gold bearing. Samples collected thus far are tabulated as follows:

<u>Sample #</u>	<u>Description</u>	<u>Assay (Au opt)</u>
WB-1	(1st split) 12' chip channel	.007
WB-1	(2nd split) " " "	.01
WB-2	18' chip channel @ West Bros. cut	.073
HG-1	70' chip channel @ Hog Canyon shaft area	.041
HG-2	15' chip channel	.002
HG-3	upper shaft, qtz. breccia	.005
HG-4	50' zone, chalcedonic qtz.	.005
HG-5	mafic dike, 250' chip	.001
HG-6	breccia/stockwork zone along wash, includes alteration	.002
HG-7	siliceous breccia zone, 300'	.04
HG-8	200' stockwork zone in wash	.007
HG-9	100' chip channel in shear zone near Hog Canyon shaft	.047
R-1	600' bulk sample of upper Hog Canyon area in altered andesite and breccia	.002

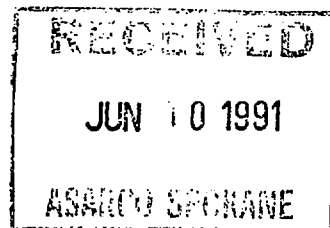


GOLD RIVER EXPLORATION CO.

June 7, 1991

ASARCO
East 920 Wolverton Court
Spokane, WA 99207

J. C. B.
JUN 12 1991



ATTENTION: Exploration Department

In the event your Company is actively seeking mineral properties of merit, in particular gold, oxide copper, or massive sulfide deposits, I have taken the liberty of submitting a random selection of a few of those properties that we currently have available for sale or lease. Data packages for most properties are available upon request by seriously interested parties.

We have been exploring, developing, and providing quality mineral properties to the Industry for many years----a number of our discoveries have been placed into production, are being permitted for production, have drill defined reserves, and others are actively being explored. I am confident that our continuing efforts will result in still more discoveries and additional production. We are working very closely with our "technical arm"----GoldTech Engineering Co. in the discovery-evaluation-acquisition phase to provide accurate technical data for company review. We hope that one or more of our many projects will be of interest to your Company.

We are in the process of relocating our offices to the Reno/Lake Tahoe area, and to North Central Arizona; nevertheless, we can be reached until further notice at our Idaho office below. I look forward to hearing from you at your convenience.

Sincerely,

Don L. Jenkins, Pres.
CPG#3341, ME #1594874

Phone: (208) 687-1752

ASARCO Incorporated

JUN 17 1991

SW Exploration

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AND
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GOLD LECH ENGINEERING CO.

From: John C. Balla *June 12*

To: *Jim Tell*

*Enclosed are a few
unsolicited prospects for
your files.*

John

ASARCO Incorporated

JUN 17 1991

SW Exploration