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MEMORANDUM OF INTENT

Between WALLACE N. CLARK and E. GROVER HEINRICHS & ASSOCIATES.

PURPOSE: The purpose of this Memorandum is to define certain actions to be undertaken by WALLACE N. CLARK and E. GROVER HEINRICHS & ASSOCIATES in connection with the exploration, development and operation of a mining property known as the MT. GAINES GOLD MINE, in the mining district of Hornitos, Mariposa County, California, and hereinafter referred to as the "Property".

CONDITIONS: The undertakings defined in this Memorandum are contingent upon:

1. E. Grover Heinrichs & Associates being able to acquire the Property on a reasonable basis with clear title.

2. E. Grover Heinrichs & Associates' evaluation of the economics of the Property is indicative of a profitable mining operation.

3. E. Grover Heinrichs & Associates or their assigns commence profitable operations on the Property.

UNDERSTANDINGS: To enable achievement of the above purpose under the herein stated conditions, Wallace N. Clark and E. Grover Heinrichs & Associates agree to the following:

1. Wallace N. Clark will assist E. Grover Heinrichs & Associates in contacting the owners in order to obtain data on the Property.

2. E. Grover Heinrichs & Associates or its assigns will pay to Wallace N. Clark a total sum of $250,000.00, to be paid on a quarterly basis out of production at the rate of 10% of the net profit of amounts received by E. Grover Heinrichs & Associates or its assigns from the proceeds of the production of the Property. The balance due Wallace N. Clark may be paid in full at any time during the life of the Agreement.

Wallace N. Clark	E. Grover Heinrichs
7722 E. Hampton Street	E. Grover Heinrichs & Associates
Tucson, Arizona 85715	1802 W. Grant Road, Suite 110-4
	Tucson, Arizona 85745
March 1, 1983	March 1, 1983
Date	Date

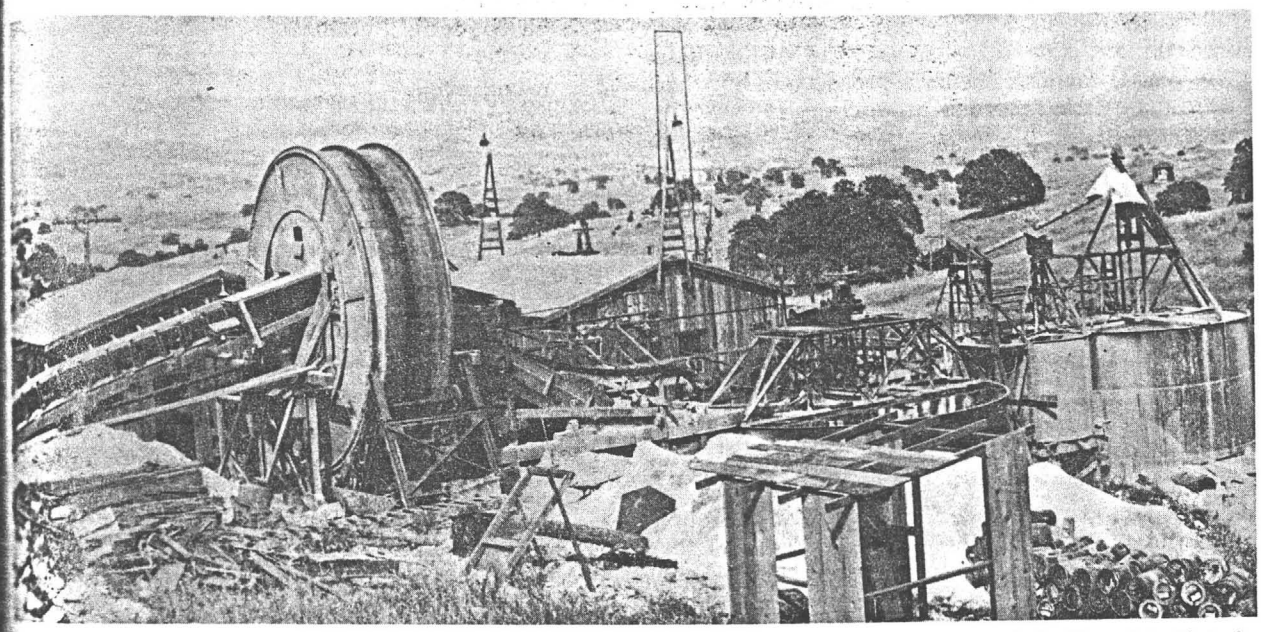

Photo 29. Doss (Ginaca) Mine, Hornitos District. This 1934 view of the Mariposa County mine shows a Hadsel mill, at left. *Photo by Ralph Baverstock, from collection of Dr. Horace Parker.*

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...ing, H. A., 1888, Homer mining district: California Min. Bur. ... pp. 367–371.

Honcut

...ation and History. This is a gold-dredging dis... in southwest Butte County along Honcut and ...n Creeks northeast of the town of Honcut. The ... comes from Hoankut, an Indian village once ...ed on the Yuba River just below the mouth of ...ut Creek. The Bangor district is just to the east. ... creeks were first worked by hand methods in the ... days. Bucket-line dredging began in 1909 and ...ued until around 1920. There was some dragline ...ing in the district during the 1930s.

...ology. Pleistocene gravels and Recent creek ...s overlie bedrock of greenstone and green schist. ...ng depths averaged about 20 feet. The dredged ...vers about 1000 acres.

...iography

..., C. A., 1919, Butte County, gold dredging: California Min. ... 15, pp. 187–198.
..., W. B., 1910, Honcut Creek dredging district: California ... Bull. 57, pp. 158–159.

Honey Lake

...ere are a few small lode-gold mines and prospects ... miles south of Honey Lake in southeast Lassen ...y and eastern Plumas County. These include the ... and Honey Lake mines. The Honey Lake or ... mine was discovered in 1900 and worked during the 1920s and 1930s. The deposits consist of narrow and shallow quartz veins in granitic rock, which in places contain free gold and pyrite.

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Hope Valley

This is a small gold- and tungsten-mining district in northwestern Alpine County about 10 miles west of Markleeville. The area was first prospected during the early 1860s, followed by minor intermittent prospecting and development since. Some tungsten was produced during World War II and the Korean War.

The ore deposits are associated with two north-trending roof pendants of hornfels, quartzite, and schist that are surrounded by granodiorite. The deposits consist of narrow gold-quartz veins and pyrite and tungsten-bearing garnetiferous tactite. Small amounts of copper also are present.

Hornitos

Location. The Hornitos district is in the Sierra Nevada west gold belt in western Mariposa County about 15 miles west of the town of Mariposa (see fig. 4). The district contains a several-mile wide belt of lode-gold mines that extends from the vicinity of the Exchequer Reservoir south-southeast through Hornitos to the Indian Gulch area.

History. The streams in the area were first worked in 1849, and lode mining began in 1850 at the Washington mine. The town was first settled by Mexicans who had been driven out of nearby Quartzburg. The name Hornitos is a diminutive of "horno" or small bake oven, from the Spanish. Mining activity was great from the 1860s through the 1880s, lesser from

Maurice Brady & Bill Swain worked on property.

the 1890s to the 1920s. The Mt. Gaines mine was worked on a major scale during the 1930s. Since World War II the area has been prospected, but there has been very little recorded production. Historically, this is the most productive district of the Sierra Nevada west gold belt.

Geology. The district is underlain by greenstone and green schist in the west portion and slate in the east. Also present are smaller amounts of amphibolite, mica schist, and hornfels. A number of small granodiorite intrusions are exposed, along the margins of which chiastolite-mica schist has developed.

Ore Deposits. A number of north-trending quartz veins and stringers containing free gold and varying amounts of sulfides, chiefly pyrite, are present, as well as several large bodies of mineralized greenstone or "gray ore". Some of the veins have very flat dips. The ore shoots vary considerably in size with stoping lengths ranging from a few to as much as 400 feet. Some of the veins have been mined to inclined depths of more than 1500 feet. Milling-grade ore commonly contains from ⅕ to more than ½ ounce per ton in gold.

Mines. Badger $80,000+, Doss $100,000, Duncan, Lost Douglas, Martinez, Mt. Gaines $3.59 million, Numbers 1, 5, 8, and 9, Ruth Pierce $600,000, Washington $2,377,000.

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Hunter Valley

Location and History. This district is in the northwest corner of Mariposa County, in the general area of Hunter Valley, the Don Pedro Reservoir and Lake McClure. It was named for William W. Hunter, a well-known engineer. There was extensive placer gold-mining here during the 1850s and some copper mining in the 1860s. The lode gold mines were active until the early 1900s. Some mining was done again during the 1930s, and the Pyramid mine has been prospected recently.

Geology. The district is underlain by northwest-trending belts of slate of the Mariposa Formation (Upper Jurassic) and greenstones, chert and slate of the Amador Group (Middle to Upper Jurassic). Several small diorite and granodiorite intrusions are mapped.

Ore Deposits. A number of northwest-striking systems of gold-quartz veins are in the slate, chert and greenstone. Numerous stringers and cross veins are present. A number of high-grade pockets have been found. The ore contains free gold and often abundant sulfides, and milling ore commonly averaged one ounce per ton in gold. None of the veins have been mined to depths of more than a few hundred feet.

Mines. Blue Cloud, Cotton Creek, Iron Duke, Morning Star, Oak and Reese $500,000–$600,000, Orange Blossom, Pyramid $200,000, Schoolhouse, Yellowstone.

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Indian Diggings

Location. This district is in south-central El Dorado County about 30 miles southeast of Placerville. It includes the Indian Diggings, Henry Diggings, Omo Ranch and Brownsville areas. Indian Diggings is best known as a placer-mining district, but there are a number of lode deposits. The Fairplay district lies to the west.

Geology. The district is underlain by quartz-mica schist, graphitic slate, green schist, quartzite, and limestone. The central part of the area has been intruded by a round quartz-diorite stock. Portions of the bedrock are overlain by patches of Tertiary auriferous gravel and extensive andesite flows.

Ore Deposits. The channel gravels are part of the Tertiary Mokelumne River, which extends south into this area from the Grizzly Flat district. The channel then extended west and southwest toward Fiddletown in Amador County. Indian Diggings was on a branch of this channel. Large amounts of gold came from these channel deposits, especially those at Indian Diggings, where the bedrock is limestone that contained numerous rich potholes. Mining was done by both hydraulicking and drifting. A number of narrow north-striking quartz veins in quartz diorite contain small but often rich ore shoots. The ore contains free gold and abundant pyrite, galena, and smaller amounts of other sulfides.

Mines. Placer: April Fool, Armstrong, Carrie Hale, Chic, Christion, Deep Channel, Dorsey, Drusy, Hayward, Hidden Treasure, Irish Slide, Last Chance, Little Bill, Lucky Jack, Old Chink, Omo, Patterson, Payne, Peacock, Richmond, Syracuse, Telegraph, Tomcat, Yellow Aster, Yellowjacket. Lode: Black Oak, Gold Note, Independence, Polar Bear, Potosi, Stillwagon

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Indian Hill

Indian Hill is in western Sierra County about [illegible] miles west of Downieville and just south of the Brandy City district. Much of the production here has come from the Indian Hill and Depot Hill hydraulic mines. These mines were extensively worked from the 1850s to the 1880s, and intermittent development work [illegible]

Wally Clark 1/14/83

1.4 oz Au / T.
Qtz. Vein Flat Lake
Single ore shoot
5' wide
Amalgamation & Flotation
1947 data
V.P. P.D. Bob Swain