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AMERICAN SMELTING AND REFINING COMPANY
Tucson Arizona

J. E. K.

NOV 2 1 1968

November 20, 1968

FILE MEMORANDUM

Newsboy Group,
Silver-Manganese claims

Information supplied by Mr. Ralph Godfrey, 2122 W. Earl Drive, Phoenix, phone 265-1546:

The prospect is located about 10 miles south of Wickenburg on the east side of the Hassayampa River, about 3 miles west of Morris Town. Sampling indicates around 5 ounces of silver and 2% manganese over widths of to 40 feet in a small open pit. There are several crosscuts and shafts which were put in to mine manganese ore in the past.

Since Mr. Godfrey describes the area as being largely covered by "rhyolite capping" or gravels, there might be a tonnage potential of some importance and at least a preliminary examination should be made.

I advised Mr. Godfrey that the earliest possible date for the examination would be the latter part of next week and that we would be in touch with him by phone.

J.H. Courtright

JHC:lzb

cc: WESaegart
JEKinnison

Morristown Kaolin	~~Maricopa Co~~ Arizona
	Maricopa Co
Pending	Wickenburg

Morristown Kaolin
JEIC File

Applied Research & Technology, Inc.

June 19, 1968

The Kaolin sample; from the Morristown, Arizona area; which was delivered to us by Mr. W. H. Charboneau has the following characteristics.

The flame of a propane torch did not effect the surface appearance of the sample physically or in color. A polished surface showed under the Metallograph, in dark field illumination, the characteristics of colloid glass shims.

The sample seems to be very pure. Only a few red colored spots, probably caused by iron, and dark bowl shaped particles, having a diameter of about 10-15 microns could be detected. Since the darker particles are surrounded by red colored Kaolin, it must be concluded that these particles also contain iron.

Under the microscope small nuggets of pure gold were detected. The total amount of gold is estimated below .1% in weight ratio. Other impurities which were detected are iron, compounds having a brown yellow and black color, red, blue and green crystals, probably Al_2O_3 and titanium compounds and small quartz crystals. The total amounts of impurities is considered not to exceed 1%.

LABORATORY TEST RESULTS:
(Semiquantitive, Spectrum analysis and X-Rays)

$Si\ O_2$	$>$	10% up to 50%
$Al_2\ O_3$	$>$	10% up to 50%
Mg O	$<$	1%
Ca O	$<$	.1%
Ti	$<$	.1%
$Fe_2\ O_3$	$<$	.1%
Au	$<$	.1%
$Cr\ O_2$	$\ll$	.1%
$Na_2\ O$	$\ll$	.1%

Estimated Analysis:
Quartz about 50% to 55%
Kaolinite about 45% to 50%

ARC LABORATORIES

Division of Arizona Research Consultants Inc.
917 W. HATCHER ROAD PHOENIX, ARIZONA WINDSOR 3-3573

FOR: Mr. W. H. Charbonneau
1814 N. Laurel
Phoenix, Arizona

DATE January 23, 1956
LAB No. 1418

RESULTS

Sample: White crude kaolin fairly well consolidated.

Laboratory tests:

Chemical analysis

54.48% Silica SiO_2

41.60% Alumina Al_2O_3

Water immersion

In the raw state no slaking was observed over a period of ten days. This would indicate no Bentonite or Montmorillonite was present. A cube was formed from the pulverized material, dried, and then immersed in water. It disintegrated immediately.

Plasticity

The water of plasticity was very low; 15cc per 100 gs of sample. Plasticity poor.

Shrinkage

Drying shrinkage 1/16" in 15/16"
Firing shrinkage (2300°F) 1/16" in 15/16"
Total shrinkage from fabricated to fired condition was 2/16" in 15/16"

Firing

Maximum firing temperature was 2300° F
A sample of the pulverized material was formed into a small cone and a flat disk. The surface of the disk was marked with a scribe and shrinkage measurements were

made between marks. After firing the material was very friable indicating that the material could stand a higher firing temperature. The cone formed of this material did not melt when the Standard Cone # 7 melted (2300° F)

Firing at 2300° F

Strength poor
Color very white
Sample showed no spalling or pop-outs.

Miscellaneous tests

Crude shows no effervescence when hydrochloric acid was used.

Microscopic examination showed practically no particles of free silica.

The material was easily pulverized to a 200 mesh product on a Braun laboratory pulverizer.

Recommendations:

The sample appears to be a very fine grade of a nonplastic kaolin or china clay. These kaolins are residual white-burning clays consisting of hydrous aluminum silicates and generally possessing little or no plasticity. They are used in the manufacture of porcelain, china, whiteware, pottery, tile and in paper manufacture. The fact that this material burns to a very white color should make it valuable on the present market.

Most consumers of clay use their own particular tests to evaluate clay samples. It is our recommendation that samples of this material be submitted to the following firms:

A. P. Green Co.
Mexico, Mo.

International Minerals & Chemical Co.
Industrial Minerals Div.
2807 So. Fairfax Blvd.
Los Angeles, California

Gladding-McBean & Co.
1348 E. Camelback Rd.
Phoenix, Arizona (Request address of San Francisco Office)

J. M. Huber Co.
100 Park Ave.
New York 17, N. Y.

Respectfully submitted,
ARC Laboratories

George G. Olson

Dr. T. F. O'Neil
Oakland, California

October 13, 1970

J. E. Kinnison
Tucson Office

Morristown, Kaolin, Maricopa County, Arizona

Enclosed is a copy of a letter to Mr. Charboneau, who has submitted a kaolin deposit north of Phoenix to our attention. He verbally claims to have about one-million tons indicated. Laboratory tests indicate 41% Al_2O_3 and 55% SiO_2. ARC Laboratories of Phoenix concludes that the samples they tested were "a very fine grade of a non-plastic kaolin or china clay."

Would you inquire into Kaiser's possible interest in such a deposit. Mr. Charboneau also has submitted a Newsboy Silver property, apparently a vein, which I was going to examine while with Asarco on the basis of verbal data--but never got to it.

Since both of these deposits are adjacent to the highway leading to Wickenburg, I will take an hour or two to have a preliminary look at the Newsboy property, and if there is any interest in a possible kaolin occurrence I will investigate this also.

JEK/bl
Encl.

b. c. c. File
Blue

P. O. Box 3605
903 University Boulevard
Tucson, Arizona 85722

October 13, 1970

Mr. W. H. Charboneau
1814 North Laurel
Phoenix, Arizona

Blind Subject: Morristown Kaolin, Maricopa County, Arizona

Dear Mr. Charboneau:

I have received the data you sent, regarding your kaolin deposit near Morristown. I will inquire internally within this company to determine what our interest in kaolin is at this time.

You also mentioned the Newsboy group, an old silver deposit. From a prior source I have sufficient data to suggest that I should examine this deposit.

Accordingly, as soon as it can conveniently be arranged to coincide with some other trip to Wickenburg, I will stop off at your Newsboy property, and also have a quick look at the kaolin deposit. The location is well marked on the map which you sent and I do not feel it necessary that you accompany me on this initial examination. I presume I have your permission to enter on the property for the purpose of a preliminary inspection. You will be advised of our intention following this examination.

Very truly yours,

John E. Kinnison
Regional Geologist

JEK/bl

P.S. I have copied the data you have sent and I am returning the original to you with this letter.

b. c. c. Dr. T. F. O'Neil
File
Blue

F. b Morristown Kaolin

Telephone Call —
1 Mi. N of town Kaolin —

Chabonnaau

2 Miles SW of Morristown

Cross RR and County Rd runs thru it

We'll send map and analysis

J. E. K.

OCT 09 1970

JEK 3-7-4

3

AR12 Republic
Sep 15 1971

The state's business

[redacted]