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

January 28, 1971

Mr. Lloyd G. Frost
President
A. W. Schunk Company
2550 North 16th Street
Suite 104
Phoenix, Arizona 85006

Dear Mr. Frost:

I note that Dr. Durek has replied to Mr. Moore regarding the "Quintenite" samples, which were examined in Oakland. As he indicates, I will take no further action in this matter.

However, I am returning to you two samples of bonded metals, which you left with me and which were returned from Oakland. Thank you for bringing this matter to our attention.

Very truly yours,

John E. Kinnison
Regional Geologist

JEK/bl

c.c. Mr. Frank E. Moore

KAISER
EXPLORATION & MINING
COMPANY

RECEIVED
JAN 28 1971

TUCSON
KAISER EXPLORATION & MINING CO.

J. E. K.

JAN 27 1971

January 26, 1971

Mr. Frank E. Moore
P. O. Drawer 1200
Douglas
Arizona 85607

Subject: "Quintenite" Deposit
in Arizona

Dear Mr. Moore:

The samples described as "Quintenite" were forwarded from our Tucson office for identification and testing.

Our laboratory has reported that it consists of calcite, minor quartz and montmorillonite, and traces of unidentified constituents.

This is therefore not an unusual material, and the fluxing properties attributed to it are difficult to explain. Its cleansing value is due to clay absorption and scouring. Borates, which could have some of the properties cited, were not found.

Thank you for providing samples; I shall advise Mr. Kinnison to take no further action.

Sincerely yours,

Joseph J. Durek
Joseph J. Durek
Senior Geologist, North America

JJD:mr

cc: Mr. J. E. Kinnison
P. O. Box 3605 College Station
Tucson, Arizona 85722

Dr. T. F. O'Neil
Oakland

October 9, 1970

J. E. Kinnison
Tucson, Arizona

Mr. J. Peter Davies
Dr. T. F. O'Neil (extra)
b. c. c. File
Blue

"Quintenite"

I believe I mentioned to you on the telephone recently that a property in Central Arizona allegedly offers a remarkable substance with various fluxing properties. Samples have been submitted for Kaiser's attention.

The actual composition of the material, evidently natural "earth" of some sort, is unknown to me and to the owners of the property. They make several claims for this substance, which they have termed "Quintenite," which I will enumerate below. Since I have no way of knowing whether or not their statements are true and if so, whether or not there would be an industrial application, I pass this to your attention for processing in Oakland.

As you suggested, I am sending samples of the substance "Quintenite," and also of certain alloys formed by the use of "Quintenite" as a flux, for examination by an appropriate division at Oakland.

The deposit occurs in the Tonto Basin, about fifteen miles south of Payson, Arizona, in Gila County. I would imagine that it is a layer in the series of lake beds exposed in that valley, and as such could have appreciable tonnage potential, dependent on the thickness of the bed.

The samples are being sent by United Van Lines (Refer to Attachment A). Attachment B is a copy of a letter from Mr. Frank Moore, representing Mr. Lloyd Frost and his group. On Attachment C I summarize a few of the uses claimed for this substance.

JEK/bl
Attachs.

SAMPLES

- "A" Natural "Quintenite" and some "processed" material.
- "B" Processed (crushed and sized) "Quintenite".
- "C" An alloy, derived from 90 % Cu, 5 % Al, and 5 % "Quintenite" "flux. "
- "D" An alloy of lead and cast iron, fused with the aid of "Quintenite" "flux. "
- "E" A bond or "weld" of copper with lead, using "Quintenite" or the fluxing agent during heating.



FRANK E.
Moore

INSURANCE & REAL ESTATE, INC.
519 TENTH ST. P. O. DRAWER 1200
DOUGLAS, ARIZONA
85607

KEM "Quintenite"
J. E. K

OCT 07 1970

October 1, 1970

Mr. John E. Kinnison
Kaiser Exploration & Mining Company
903 East University Blvd., P. O. Box 3605
Tucson, Arizona

Dear Mr. Kinnison:

This letter is to verify the meeting that Mr. Lloyd Frost and I had with you yesterday, regarding his "Quintenite" claims, located approximately 15 miles South of Payson, Arizona.

Mr. Lloyd Frost and his people are interested in selling all or possibly part of this property. My interest is as a Broker for the property. In this group there are 84 un patented mining claims.

I will be pleased to obtain any further information on this property, that you may wish.

Sincerely yours,
Frank E. Moore
Frank E. Moore

FEM:a

cc: Mr. Lloyd Frost

Received: 10-5-70

USES OF "QUINTENITE"

Mr. Frost and his associates have staked lode claims on the outcrop area of "Quintenite" material. It is a soft, light-colored, porous substance of unknown composition.

1. By using "Quintenite" as a flux, they have "welded" or otherwise joined copper with cast iron.
2. They have welded, by ordinary acetylene torch, cracked cast iron by using "Quintenite" flux.
3. They have alloyed lead with cast iron, fluxing with "Quintenite."
4. They have alloyed copper with aluminum, and the resulting substance is allegedly acid-resistant and will not oxidize.
5. "Quintenite" is soluble in water, and used as a quenching medium performs excellent case hardening of steel.
6. A solution of "Quintenite" will dissolve grease. They are producing a small amount of sized product and are selling it to local gasoline stations in Payson for cleanup.

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

October 9, 1970

Mr. Frank E. Moore
INSURANCE & REAL ESTATE, INC.
P. O. Drawer 1200
Douglas, Arizona 85607

Subject: "Quintenite,"
Arizona

Dear Mr. Moore:

This acknowledges your letter of October 1st, regarding Mr. Frost and his "Quintenite" claims.

I cannot say what interest, if any, Kaiser will have in this property at this time. However, I have forwarded the samples left here by Mr. Frost to Oakland, where they may be studied by our research department. I have briefly described the probable geological occurrence and possible uses to our exploration manager in Oakland, Dr. T. F. O'Neil.

I wish to thank you and Mr. Frost for bringing this interesting occurrence to our attention, and we will advise you of our possible interest as soon as possible.

Yours very truly,

John E. Kinnison
Regional Geologist

JEK/bl

c. c. Mr. Lloyd Frost
b. c. c. Dr. T. F. O'Neil
File
Blue

A. W. SCHUNK CO.

MINING AND MILLING
PRODUCERS OF QUINTENITE

LLOYD G. FROST
P R E S I D E N T

2550 N. 16 ST., SUITE 104
PHOENIX, ARIZ. 85006
TEL. 253-0424

Home 737-3318

OFFICE: EM 4-3232

RESIDENCE: EM 4-2560

FRANK E. MOORE

GENERAL INSURANCE
REAL ESTATE

DRAWER 1200

P. O. ~~BOX 954~~

519 TENTH STREET
DOUGLAS, ARIZONA

Frank Moore

residence Em 4 2560
519 10th St.
Douglas

J.E.K.
SEP 30 1970

Lloyd Frost } owner
Phoenix, Ariz }

Dr Fisher (Retired)
Tally Industries
Armor Plating Cont.
Mesa Ariz

Miser Group

spot tests

Si, Magnesium
rare earths?

Tonfo Borica

15 South of Payson

Sort of like a bed - in the lowlands
Natural Material is white - porous - looks like ash

~~For~~ Joined Cu and Cast iron

Alloyed Pb and Cast iron

Acid resistant -
won't oxidize

Alloy Cu and Al

570 + 90% Cu

5% flux

soluble - used as quench makes
core harder steel.

Solution will dissolve grease.