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3-21-10

J. J. Durek
Oakland, California

June 7, 1972

John E. Kinnison
Tucson, Arizona

File
Blue

Red Hills Copper Property,
Pinal County, Arizona

In regard to the Kaiser Cement and Gypsum files on the subject property, I contacted Tom O'Neill during your absence in San Bernadino County, regarding release to Asarco. At that time, he had already met with Dave Lowell and was reluctant to bring the matter up for discussion following the outcome of the Mina and Quartzite proposals by Lowell.

Tom suggested that if I could ascertain that Lowell was no longer active in the area through other sources, we could probably release the data on that basis. I have informed Kurtz that the material has been received, and determined that he is not aware of any current activity by Lowell. However, Kurtz's reply was somewhat qualified to the extent of Asarco's knowledge--which may not be complete since they are not continuously on the ground. The matter was left with the request for Kurtz to contact the operators at the Red Hills property, to determine what competition, if any, was current. Evidently, negotiations between Asarco and the Red Hills owners has been dragging at a rather slow pace, and Kurtz yet has not had a reply from the engineer in charge of the property.

Rather than letting the issue die of old age at this point without resolution, I would suggest we have two alternatives.

1. Make the assumption that there is no evident activity by Dave Lowell at this time, based upon the extent of Asarco's knowledge.

2. Make the data available for review by Lowell, and following this proceed to negotiate for exchange of data with Asarco.

I have reviewed the drill-hole data provided, and it does not appear to offer information which would necessarily lead us to a concealed target. The ground formerly held by Kaiser Cement has been sufficiently tested in itself that it is of no interest. Actually, the area drilled lies somewhat to the south east of the main zone of alteration at Red Hills, and is perhaps of questionable exploration value with regard to that property. It confirms, at least in part, the interpretation of mineralization along separate shear zones.

JEK/bl

3-11-10

DN

INTER-OFFICE MEMORANDUM

J. E. K.

TO John E. Kinnison
AT Tucson

DATE April 21, 1972

MAY 1 1972

FROM Joseph J. Durek
AT 2026 KB

COPIES TO

SUBJECT Miscellaneous Subjects

B. Robinson was advised of George's delayed claim settlement, and she will prod North American Van Lines. Ironically, the settlement exceeds insurance coverage, and KACC will be rebilled the difference. North American's performance on this claim therefore makes little sense.

I will mail the Red Hill data next week, but please retain it until I can check Dave Lowell next Thursday on Quintanas possible land position. If Lowell has some continuing involvement in this area, we would wish to avoid acting against his interest, especially since he was denied the information last year. You may know, or can determine from Asarco, the competitive picture. We might wish to not become involved.

JJD:la

RECEIVED
APR 24 1972
TUCSON
KAISER EXPLORATION & MINING CO.

Ken JEK

Gross Reference – JEK file
– Johnsons Florence Copper –

J. E. K.

MAY 5 1972

Pioneer (Red Hills)
por Cu Prospect

Bill Kurtz teleph comment.

Dave Lowell, ± 3 yrs ago, drilled a hole located 1/2 to 3/4 M.le SW of the area of Bedrock abutting, or flanked, by alluvium. This fair B.R. exposure is where the recent leaching operations have been conducted. The hole is reported 2000 feet deep in Qal. Thus a deep frontal fault is present. Recent Asarco gravity work confirms this picture, and indicates a deep trough. If the zone extends under alluvium, in that area, it is below I.P. limits, thus the Asarco IP work of the mid-60's is not definitive; it was negative in that area.

The suggestion – or surmise, is that Asarco is possibly interested in an extension under this deep basin

JEK

file 3-11-10
Johnson Florence

DN

J. E. K.

INTER-OFFICE MEMORANDUM

APR 3 1972

TO T. F. O'Neill
AT Oakland, 2023 KB

DATE March 28, 1972

FROM Joseph J. Durek
AT Oakland, 2026 KB

COPIES TO J. E. Kinnison
Tucson

SUBJECT Asarco Request for Exchange of Information

John Kinnison has been offered an exchange of information by Bill Kurtz, of Asarco's Southwestern Exploration Dept., for information about "Kaiser's" drilling at the Red Hills property, east of Florence, Arizona.

This was a Cement and Gypsum program in 1967-68, and a similar inquiry was made last year by Dave Lowell. At that time, Don Towse questioned his former affiliates, stressing a third-party interest, and they declined to give information other than state that their interest was terminated and the drilling results were extremely poor.

We do not have any crucial trading objective, but John has suggested that a review of some of Asarco's old mapping south of Wickenburg could be beneficial.

I do not know if the relationship between the companies permits that this information be sought, but Cement & Gypsum has apparently terminated their metal exploration in the Southwest and should place no competitive value on these data. The program had been under the direction of Jack Walker, now Vice President for Manufacturing.

bcc: (Your memo arrived just after my two-week departure for Nevada. Retirement or release has ended my informal contacts with Kaiser Cement & Gypsum, and any hope for full disclosure must be through formal channels.)

JJD:la

RECEIVED
MAR 1972
TUCSON
KAISER EXPLORATION & MINING CO.

J. J. Durek
Oakland, California

March 24, 1972

J. E. Kinnison
Tucson, Arizona

File
Blue

Red Hills Poprhyry Copper,
Pinal County, Arizona

I had previously written regarding possible drilling information by another Kaiser company on the subject property.

Bill Kurtz called again this week, and from him I ascertained that Asarco is--as I had suspected--attempting to obtain a property position for themselves with regard to the property.

Although Kurtz was noncommittal on their objective, his statement suggests that they hold some sort of geological theory which they wish to test by drilling. This could be either a deep target beneath the exposed pyritic zone or a potential projection beneath alluvial cover.

Evidently, Kaiser Cement and Gypsum was the company which is reported to have done some drilling in the area, but the location of the holes is not known. Unless information provided by this drilling puts the deposit in an entirely new perspective, I would not recommend that KEM take an active position with regard to the property. On the other hand, Asarco holds field sheets by Barry Watson, who did considerable mapping in the southern part of the Wickenburg district, I will suggest a trade of information be based on that mapping data.

JEK/bl

J. J. Durek
Oakland, California

March 9, 1972

John E. Kinnison
Tucson, Arizona

File
Blue

Pioneer (Red Hills) Porphyry Copper Deposit, Pinal County, Arizona

The subject deposit is a zone of porhyry-copper type alteration and mineralization about a mile in diameter, largely in pre-Cambrian granite, but with a few dactite dikes. It is flanked nearby on the west by alluvium, but does not appear to actually project beneath alluvium--there being a thin strip of unmineralized rocks between the alluvial plain and the deposit. The above description, however, is based on a very casual traverse of the ground about two-and-a-half years ago, at which time in the capacity of a consultant I rejected it for a client. The deposit has been known by various companies, including Asarco, for many years, and AS&R did rather extensive IP work on the alluvial plain to the west of this area in the early sixties. The deposit has been recently the site of a small leaching operation, which I am informed has now folded up.

Although there is abundant copper stain along narrow sheer zones in the western portion of the deposit, there are also many essentially unaltered patches within the general zone of alteration, giving the deposit a spotty characteristic. The interpretation of a leached capping suggests low-grade primary sulphides without significant enrichment by chalcocite.

In regard to this deposit, Bill Kurtz--supervisor of the Southwestern exploration department for Asarco--placed a call with a request to possibly trade information which he thought Kaiser had regarding the property. Kurtz had been informed by the current operators that "Kaiser" drilled a few holes to the west in the alluvial area within the last two or three years. He was also advised that they had relinquished such claims as they may have had and that the ground is now held by the Red Hills Copper Company, who are the current operators.

I informed Bill that I had no knowledge of such work, and suspected that perhaps one or the other Kaiser organizations--either Steel or Gypsum and Cement--were responsible for this activity. He thereupon inquired if there was some simple method for an inquiry to be placed through KEM in Oakland, and I replied that I would present the question.

If a Kaiser company headquarted in Oakland has indeed done some drilling, and rejected the claims for whatever reason, perhaps it would be possible to have an informal look at the information. If it appears that there would be no interest by KEM in light of any drilling information, which might be so obtained, we would then be in a position to negotiate an exchange for data in an area of current interest.

I do not really know what the chances are of obtaining information of this type from one of the other Kaiser groups, but I bring it to your attention as something which might be worth a small amount of effort.

JEK/bl

File

GEO-COMP EXPLORATION, INC.
SUBSIDIARY OF G.F.I. COMPUTER INDUSTRIES, INC.
1019 WEST PRINCE ROAD • TUCSON, ARIZONA 85705 • AREA CODE 602 887-6212
297-1124

EXPLORATION FOR NATURAL RESOURCES

November 25, 1969

Mr. Jack Fraser
Glen Explorations
1204 Pretorian Building
Dallas, Texas

RE: JOHNSON FLORENCE COPPER

Dear Jack:

This letter is for your records in reference to the subject property. We have fully discussed by telephone the proposal by Jim Johnson, President of Rocky Mountain Geo-Chemical Co., to offer mining claims of his on the subject property, and his terms. You authorized me to make a field examination to determine the value of the property. This was done on Friday afternoon, November 21.

The deposit is a porphyry copper deposit, about 12 miles due east of Florence, Arizona, in Pinal County. Despite rather profuse copper staining on the surface, the evidence of the leached capping - evidence such as the color, texture, and distribution of the limonite derived from oxidized sulphides - suggest that the copper mineralization in the sulphide zone at depth will be very low grade. I would guess that it would be only about 0.1% copper, more or less, with no chalcocite enrichment. Thus, based on the geologic observations which I made during my examination, the property does not merit further work.

I have already described the land situation to you on the telephone. The entire area is covered with old claims, and numerous diggings and roads, and I believe it would be impossible to prove these claims invalid on the technical grounds of lack of annual assessment work. The Bell Western Oil Co. out of Denver, currently staking claims in the vicinity, reportedly

already has an agreement with some of these property owners. Therefore, I conclude that another claimant would almost surely face litigation over the property.

I thanked Mr. Johnson for bringing the property to our attention, and told him Friday afternoon that we would not be interested in pursuing the matter further. Subsequently I so informed you.

Yours very truly,

John E. Kinnison,
Chief Geologist

JEK:kp

cc: Dr. Charles L. Fair

3-11-33 JEK - fk under Johnson Florence Co Cross under to Red Hills

November 25, 1969 Tape Recorder notes JEK Johnson Florence Copper ✓ file

Field Examination Notes

Friday afternoon, November 21, I examined the subject property in company with Jim Johnson, President of Rocky Mountain Geo-Chem, who had brought the properties to our attention. Examination was made for Jack Fraser of Glen Exploration. Details of Johnsons proposal to bring in another partner, in staking of claims and other matters, have already been covered by my handwritten notes on other pages and will not be repeated here. The only new information is that the other company staking claims in the area is an oil company, Bell Western, operating out of Denver. No other information regarding them is known at this time. Johnson says that their field representative on the ground states that Bell Western has made agreements for options, or some such, with owners of the old claims already in existence in this area.

The property is located due east of Florence about 10 miles, approximately in section 33 of township 4S, Range 11 east. The Arizona Geologic Map of Pinal County shows a laramide granite intrusive at this point with a mine symbol. Property is reached by taking the dirt road which leads from Florence to ~~Gallaman~~ Kelvin southeasterly for about 12 miles, thence taking a ranch road northerly.

The property is a prophyry copper deposit, the limits of alteration was observed on this date being about a mile in diameter. The ground is very conspiciously red due to rather heavy hematite staining throughout the rock. The host rock is precambrian granite. It is sheared and fractured with transported hematite along some of these fractures. The ~~bolt~~ bulk of the limonite and hematite, however, is flooded throughout the rock giving the typical brick-red color of a pyritic deposit. Copper staining is profuse.

Prospect diggings are literally all over the place, and the property is criss-crossed by a network of roads of all ages. There are a few deeper shafts and numberous road cuts and shallow trenches in addition to the small prospect pits. Monuments in all state of repair are seen scattered about.

Alluvial cover is rather sparse, and the zone is open for ready inspection. The rock is only slightly altered, in the general sense. Along a few of the veins alittle sericite was observed, and some possibly secondary biotite. Chloritization is common. Large portions of the granite show no evidence of disseminated sulfide at all, and only alittle kaolinization. Certain portions are virtually fresh of mineralization. The above description is valid for the bulk of the western half of this deposit. This area, which is obviously the most vigirously propsected, and on which Jim Johnson thinks the old claims to be valid. Certainly it would be absolutely impossible, in a court of law, to prove the invalidity of the claims due to lack of acessment work.

Farther to the east, in the area where Johnson has staked his seven claims so far, the rock is somewhat less copper-stained, and has been less intensely prospected by diggings. The rock in this vicinity is granite, probably pre-cambrian, in places totally barren of mineralization. It is transversed by quartz monzonite porphyry or dacite porphyry - which is slightly altered in places, with much specularite showing in it seems. ~~One~~ Cavities appeared to be after

pyrite. In this vicinity old workings are less conspicious, and there are fewer roads and fewer claim posts. Johnson believes this area could be shown to be invalid due to lack of acessment work. I still doubt that this could be proven in a court of law.

My conclusions are as follows.

The area is a pervasively altered porphyry copper deposit, the host rock of which is largely precambrian granite, intruded by narrow dikes of dacite. Despite the profuse copper staining the evidence is shown by the voids from sulphides, and the distribution of the limonite (hematite) flooded principally in the rock ~~metries~~ matrix, points to a pyritic enviorment with a high ratio of pyrite to copper sulfides. Overall, the sulfide content appears to have been low, and is restricted largely to shear zones. Rock with little or no sulfide having ever been present, separated these shear zones one from the other. Thus I would expect in the sulfide zone at depth to find something on the order of 0.1% copper as primary chalcopyrite, and little or no secondary enrichment ~~vein~~ values. The shear zones themselves might be alittle bit higher in copper values in the sulfide zone. However, they are not close enough together to constitute a mineable body by themselves. In conclusion, then,

I rejected the property on geological grounds, and also on the bases of the conflicting land situation which most surely would result in litigation. I so informed Johnson that afternoon. These notes will be retained for reference in our files.

Letter to Fraser outlining only the fact that we examined it, and my findings. I fully informed Fraser of the facts of the situation by telephone, Tuesday, November 25, and advised him that no report would be written to him as such, only a letter.

John E Kinnison

Letter to Jack Fraser followed:

J. E. K.

NOV 25 1969

Called Fraser

Johnson Florence Cu

Told him simplified details of geology. Much Cu stain but low anal. & dist suggest sulphide only about .1% Cu and no enrichment. Geologically not a good target. Also barren areas — spotty.

Land status complete run down — old claims, unpossibilty of proving them invalid because of so many old prospect pits and roads. That the Denver oil Co apparently is on the ground and that they reportedly have agreements with some of the old claim owners.

Will not give report — just a letter for his records showing I saw it and general findings.

Nov 19

Jim Johnson Pres Rocky Md
Geo B Chen

he has 7 claim in Ariz

has geochem and some data

Says cut is a porphy prospect. - he thinks good.

approx $<1000 in it plus 10% Net profit.

will continue staking claims on hourly basis.

Another Co has surveyors right now.

Call Fraser tomorrow AM

and ask does he want to spec.

Nov 20 - Fraser says does not really like the 10% Net profit - whatever that is. But wants me to follow up and see the property and advise him

J. E. K.
NOV 20 1969

J. E. K.
NOV 18 1969

Bell Western oil Co - Denver

Pinal Florence. - east

NE 10 ~~T11S~~ Florence
S side of Gila River

old Claims - 40-55 legal.

next Abandoned - no work.
location legal claims not plotted
11:00

622-7560 - office
Jim Johnson