UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION
WASHINGTON 25, D. C.

JAN 12 1965

Western Equities, Inc.
1629 Guaranty Bank Bldg.
3550 North Central Avenue
Phoenix, Arizona 85012

Re: OME-6378 (Molybdenum)
Western Equities, Inc.
Yellow Basin Area
Mohave County, Arizona

Gentlemen:

Your application for assistance in an exploration project and other information available to us in Washington concerning the above-named property have been reviewed.

A careful study of this information leads us to the conclusion that the geologic probability of making a significant discovery of molybdenum by your proposed exploration is unlikely. Under these circumstances, we regret to advise that your application for exploration assistance is denied. However, this denial is made without prejudice to the property. If, later on, you do additional work in the altered areas on the property which would supply information showing greater molybdenum potential than presently indicated, you should feel free to reapply for exploration assistance.

If a new application is submitted, you should refer to OME-6378 and need not duplicate information which has already been submitted, except for new letters to two banks and their replies. In addition, you should advise if the ownership status of the claims presently in conflict with the D & G Mining Company's claims has been settled.

Sincerely yours,

Acting Director

FMMurphy/mm (1/12/65)
cc: Director's Reading File
✓Region III
Review Committee
Docket
Code 120M

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
Area V

Office of
Area Director

224 New Customhouse
Denver, Colorado 80202

December 10, 1964

Memorandum

To: The Files

From: Area Director, Area V Mineral Resource Office

Subject: Trip Report--December 1, 2, and 3, 1964 (Part 2)

Summit Mine--December 1, 1964

At this mine two men are driving a drift opened by an adit. The face was in what seemed to be a 3-1/2-foot vein of copper-lead ore. Farther back some ore could be seen, but it would be necessary to sample or wash down to get an idea of the grade. The dump had considerable ore of what seemed to be milling-grade. Mr. Ralph Langley has the OME contract. He has mined (World War II) ore from an upper level.

Langley said the original work was done by U.S. Smelting & Refining Company and that they told him about the mine prior to his first lease there.

The miners now working the OME project are having a hard time with missed holes which they blame on poor fuse and wet ground. This sounds odd.

Photos of Langley and Connors, and Langley and Geehan.

This OME contract will probably lead to production if prices of base metals and silver stay up. The company has obtained many samples but have not yet had those covering recent work tested.

The Summit can be reached by a road extending easterly from a point on the Duval road below the Duval tailings pond, then north to the mine. This road extends past a mine being fussed with now. Langley thinks this is a "promotion." The upper Summit workings can not be seen from the OME adit. One must drive around the hill to get to them. All these upper workings seem in need of much rehabilitation if they are to be reopened.

cc: Paul Zinner (2)
J.N. Van Sant
J.E. Soule'
H.M. Connors

The Yearbook mentions production in the early fifties. I did not check our record card.

The only problem seems to be missed holes. If this is still a problem at the time of the next inspection, it should be called to the attention of safety inspectors. Also, Connors demanded assays and suggested sampling over and above that called for in the contract.

Yellow Basin - Leviathan Area--December 2, 1964

M. L. Pate, chief engineer, exploration department of Western Equities, Inc., Connors, and I went to the area where the company hopes to use an OME loan. They call it the Yellow Basin project.

To get to the Leviathan, drive 51.5 miles southeast on U.S.93 from Kingman; turn right onto a dirt road; go 21.7 miles, much in low gear. We drove the GSA car out 10 miles on the dirt road and went the last 11 miles with Pate in his station wagon (2-wheel drive).

The Leviathan shaft is on a group of patented claims. The shaft is probably open for 300± feet. The workings below the 60-foot level are said to be full of water. An old mill operated near the shaft--all that remains of it is a delapidated wooden tank. The most recent work from the shaft was post-mill as the rock is on top of the mill tailings. There are nice specimens of copper minerals and of molybdenite on the dump.

Some of the old work was by Molybdenum Corporation of America. The most recent work was the diamond drilling of five (??) holes by Inspiration Consolidated Copper Company. Much of the Inspiration drill core (BX) was scattered around near the Leviathan shaft. According to a letter from Inspiration to Pate, they were disappointed with the thickness of the Leviathan vein.

Photos from road high above the Leviathan and at the Leviathan shaft show the area. A shack near the shaft is called the "Leviathan Hotel" by Pate.

Just before we got there, Harold Downey of the D & G Company came up behind us in a Jeep. Downey has had an OME application turned down without a look--by Washington--so Connors was embarrassed. Some D & G claims (not where they had the OME) overlap those of Western Equities at the Yellow Basin.

We drove to the top of a ridge. From this vantage point, much of the ground held by Western Equities could be seen. At the same point, there was much copper mineralization showing in the road cut. We walked along an old trail and looked at one of the proposed drill areas. The altered (favorable??) rock stands out, particularly as

contrasted to adjacent pre-Cambrian. There are many quartz veins, most with copper-moly minerals. We photographed the drill area, ridge area, and the road end to second drill area. (One from quartz "mine" looking southwest to car on ridge.)

There is a second group of patented claims--we did not go there.

The altered areas indicated on the maps are present, and they do show some mineralization. The Inspiration drill core contains pyrite and chalcopyrite from country rock near the Leviathan vein. However, my instincts tell me this project is a long shot. All help from the detailed geological survey now in progress and from geophysics will be needed.

There are many old mines and one old mill on or near the road to the project. An old stamp mill is about 12 miles from the highway. The Cedar Mine, with quite a dump, is in about 16 miles (4 miles± from the mill). A series of adits, some only about 50 feet apart, appear to have explored or developed a structure at the pre-Cambrian contact. From the stamp mill, the zone seems much the same as the one proposed for drilling. The only record of recent production near the project is from the Antler and Copper World Mines in the Cedar Valley district "near Yucca." We did not see these mines. The Yearbook mentions 100-ton mills at both mines.

Western Equities' claims are the property of Dalton Robinett who was one of our tungsten producers during the Korean War. (The Boriana Mine is in the Cedar Valley District.) He lives at the project.

At the Yellow Basin project there are quartz stringers with a mica mineral on both sides. I sent one in to find out what mica mineral this is.

King Midas--December 3, 1964

Mr. and Mrs. Leland Wiscombe, Connors, and I drove to the King Midas shaft near Oatman. The mine is about two miles from town (32.1 miles from our court, Walapi, in Kingman).

The Wiscombe group did not have the mine pumped out and could not get their pump to run, so this trip was not productive. On the surface, the King Midas vein is largely calcite (dolomite?). The rock near it may also be in the vein--this is chlorite, I think.

Photos (2) of the King Midas from dump.

Mrs. Wiscombe told me that they tried to re-mill the Tom Reed dump. Everything went wrong--pachuchas plugged up, rakes broke, firm broke! She knows a lot about Oatman--perhaps she should run the firm.

Old U.S. Smelting works are nearly all gone, but mine and tailings still can be seen. I do not know where the "Mudds" worked. (Look up Oatman in U.S.G.S. 397, 743, and Arizona 131.)

General

M. L. Pate of Western Equities reported that Union Carbide and Bear Creek have conducted extensive drilling projects near Kingman. I think he said the work was in Cane Springs Wash; however, I may have misunderstood the location.

The IMC feldspar and silica plant at Kingman was being operated.

A review of the literature indicates the Mohave County mines produced much silver. A Bureau project may be in order.

Robert W. Geehan

Rec'd 12/10

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
Area V

Office of
Area Director

224 New Customhouse
Denver, Colorado 80202

December 9, 1964

Memorandum

To: The Files

From: Area Director, Area V Mineral Resource Office

Subject: Trip Report--December 1, 2, and 3, 1964

Duval Corporation's Mineral Park Mine (December 1, 1964)

H. M. Connors, Ralph Langley, and I visited this mine prior to a trip to the nearby active OME Summit project. After a brief chat with I. B. Phillips, we were introduced to Mr. William Roper, supervising mining engineer, who took us to the mine and mill. (Langley runs the Summit.)

Both Phillips and Roper told us about the water supply. Five wells were drilled in the valley some 14 miles from the mine. The lift in the wells is 1,300 feet; the lift from wells to the mill is 2,000 feet. Well pumps are 500 (?) horsepower, and there are two (?) 500 h.p. boosters in the 16-inch line.

Drilling and blasting has become a real problem. The rock is abrasive--some contains quartz phenocrysts. It has a tendency to break into large, up to 25-ton, blocks. We saw one "big one" that took up one-quarter of a 70-ton truck being loaded. The large rocks handicap both mine and mill.

The actual mining and stripping is done by a contractor, the Isbell Construction Company.

Twenty-five-foot benches are being used primarily to obtain selectivity. One published report indicates that the shallow benches may also be related to the blasting problems. Both 6-1/2-inch and 9-inch blast holes are in use. Mr. Roper said that the 9-inch holes were easier to drill than the 6-1/2-inch holes, but that too much of the explosive in the larger holes is in the lower few feet. The 6-1/2-inch holes give a better distribution, but the drill being used is frequently shut down because parts break. This drill also was said to be costly to

cc: Paul Zinner (2)
C.W. Merrill
J.N. Van Sant
J.H. Soule'
H.M. Connors

run because of abrasion of the drill stem. In its original version the 6-1/2-inch drill was underpowered; a separate compressor engine has been added by the company. (The 6-1/2-inch drill is a Robbins; the 9-inch drills are the Bucyrus-Erie 40 R's.) The blast hole spacing is 16 feet in rows that are 18 feet apart.

Mr. Roper told us that the 11 Le Tourneau-Westinghouse trucks being used by the contractor have a capacity of 70 tons, and that the loading shovels use 8-yard buckets. A published report describes the same units as 65 tons and 7 yards. The haulage roads are as steep as 10 percent. The trucks have had a fair amount of brake troubles, and the contractor intends to modify the braking system.

Mr. Roper reported that the average grade of the ore that will be mined is expected to be 0.65 percent copper and 0.04 percent molybdenum. He said the ore body was in a zone 3,500 feet long and 1,800 feet wide, and that it extends from an elevation of 4,000 feet to 4,900 feet. The lower part of the ore body is said to be in the form of two large cones. There is about 60 million tons of ore in the area that has been drilled.

Power for the operation is generated at the site by a private power company. Duval pays 10.3 mills per kilowatt hour for the power. Mr. Phillips said that they might have done better to build their own power plant.

There is an interesting parallel between the Mineral Park Mine and the mineralized district near the proposed Buttes Dam. At both locations several churn drill holes were put down about 50 years ago. At both locations this was followed by fairly recent drilling by one of the large copper companies. This in turn was followed by a period when the ground was lying idle, and, of course, the Buttes' ground is still idle. At any rate it goes to show that one or two large companies will turn their backs on the same mineral deposit that will make a profitable mine for somebody else.

The Mineral Park Mine seems to be surrounded by a series of small mines that date back to the 19th Century. Mr. Langley said that he owns some equipment at the adjacent Keystone Mine and that at one time he had milled ore there from the Summit Mine. The first mill at the Keystone was built in 1876. Mr. Roper pointed out some present-day activity about three-fourths of a mile from their mine. He said this work was being conducted by "the Austins" who were working on a lead-zinc deposit.

I took about 12 photographs of the mine and mill. The first of these were looking down from the highest bench on a shovel loading in the "leach." These photos also show the 9-inch-type drill.

The geology of the deposit is a bit hard to grasp. The best ore was said to be in a schist that overlies the igneous portion of the ore

body; however, the ore apparently does not go very far out into the schist. The igneous rock we saw was a quartz porphyry with double-ended quartz crystals. The district was originally famous for its turquoise. We stopped and picked up some. Mr. Roper reports that the company has leased out turquoise-picking rights. He said the turquoise was not really gem-type caliber. Their turquoise picker hardens it with some sort of a chemical treatment.

The company has built a very large tailings disposal in the valley below the mill. Only one very small corner of the disposal unit has been filled yet. The tailings are sent down to the pond in concrete pipe set on a rather flat grade with about 20 vertical drops. The water return line has not yet been completed. I took photographs of the tailings area from the road to the Summit Mine.

A computer is used to calculate--from aerial photographs--the amount of rock that has been removed. No computer technology was used in calculating the ore reserves.

At the time of our visit (December 1), the mill was operating at half the rated capacity of 12,000 tons per day. Mr. Roper told us that they have some trouble at the primary crusher because blasting at the mine is generating a higher percentage of large rocks than had been expected. I think they also need more working faces at the mine.

The company hopes to use autogenous grinding but were using balls in their grinding units in order to get started. The mill is in four sections, two of which were operating. They will try different grinding methods after the rest of the flow sheet is firmed up. As of December 1 they were having trouble in the molybdenum circuits; however, on that day they made the first shipment of copper concentrates--to Hayden.

The company is working on a unit to recover copper from the leach on old cans. I promised to send Roper data on use of sponge iron.

From Mr. Pate of Western Equities, Inc. we heard more about the blasting problem. Pate, who has had many years of open pit experience, said that he could, he thought, solve the blasting problem in a week or so--"Better than the many consultants on blasting hired by Duval."

The existance of the trouble should be called to the attention of the experts on blasting in our Bureau.

Pay Dirt for November 20 has a reprint of an AMC paper on the mine by Thomas Jancic.

Robert W. Geehan

Robert W. Geehan

P.S. The OME portion of our trip will be covered separately.

Statistics

6-803
(January 1952)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

SUMMARY REPORT OF MINERALS EXAMINATION

State Arizona County Mohave Mineral Products Copper - Molybdenum

Name of property or deposit Yellow Horse Property

Date examined 12-2-44 Engineer Hugh M. Connors Date of this report 12-31-44

Reason for examination OMM docket 1378

Engineer accompanied by M. L. Yeto Address Box 95, Grand Canyon, Ariz.

Extent of property 12 patented and 41 unpatented mining claims

Owner Dalton Robinette Address ?

Leased or optioned to Western Equities, Inc. Address Box 95, Grand Canyon, Ariz.

Location of property (be specific) Sections 17, 18, 20, and 29, T 37 N, R 16 W
Cedar Mining District

Type of deposit and mineralogy (brief description) Primary disseminated molybdenum and copper mineralization within a quartz diorite stock. The patented claims at south end of property covered veins which are said to have contained chalcopyrite and molybdenite.

Known dimensions of the deposit Length 6,000' + ? Width 3,000' + ? Depth ?

Attitude of the deposit (strike, dip, etc.) There are three dominant structural trends, the most important of which strikes N 60° E.

Possible extensions; correlation of known showings Inspiration Consolidated Copper Company drilled five holes on the Leviathan vein and are said to have been disappointed with the thickness of the vein.

Mine workings (brief description or attach map or sketch) (indicate whether accessable) The patented claims covered veins which were mined through two shafts - now filled with water.

(over)

Mining and milling equipment on property None.

Past production (if any) Some production but the Bureau of Mines has no record of it.

Present rate of production (if any) None.

Sampling (describe briefly, or attach sketch) Samples of the disseminated Mo and Cu material from the surface averaged .12% total Mo and .17% Cu.

Tentative Estimate of Reserves
(Subject to revision when assays are received or after engineering calculations)

Measurable ..... tons ..... Grade .....

Indicated ..... tons ..... Grade .....

Inferred ..... tons ..... Grade .....

Mining method (actual or suggested) .....

Milling or processing method (actual or suggested) .....

Processing tests suggested .....

Tentative conclusion and decision A few diamond drill holes beginning at the north end of the property will be recommended.

To be accompanied by brief letter giving examining engineer's general impression of the deposit, his impression of the owner, and any other confidential information he may care to submit. Refer to any known prior examinations and reports. May be executed in pencil. Should be mailed within 24 hours after examination is completed.

Send original and one copy to Washington Office.

Interior—Duplicating Section, Washington, D. C.

76412

Bldg. 20, Denver Federal Center
Denver, Colo. 80225

December 29, 1964

Memorandum

To: George C. Selfridge, Chief
Division of Exploration Operations
Washington, D. C. 20240

From: Acting Field Officer, OME, Region III

Subject: OME-1378 (Molybdenum)
Western Equities, Inc.
Yellow Basin Property
Mohave County, Arizona

Attached is a copy of the assay returns on the sample taken along the trail to the proposed three north drill sites which are probably on the Big John No. 5, and Paco No. 4. The sample consisted of the altered (favorable??) rock which stands out, particularly as contrasted to adjacent pre-Cambrian.

The road to the property reaches the Leviathan claims first. The Leviathan shaft served a group of patented claims. The shaft is probably 300± feet deep and is filled with water to the 60-foot level. An old mill operated near the shaft -- all that remains is a dilapidated wooden tank. Some of the old work was by Molybdenum Corporation of America. The most recent work was the diamond drilling of five (??) holes by Inspiration Consolidated Copper Company. Much of the Inspiration drill core (EX) was scattered around near the Leviathan shaft. No molybdenum mineralization was noted in the scattered core and according to M. L. Fate, chief engineer of Western Equities, who accompanied me, Inspiration was disappointed with the thickness of the Leviathan vein. I am told that Climax Molybdenum Co. examined the Leviathan and turned it down. The U.S. Bureau of Mines has no record of production from either the Leviathan or American claims.

The American claims are at the lowest point and the ground rises rapidly to the north to the top of a ridge. Just below the top of the ridge the Applicant proposes to drill three holes.

The altered areas shown on the map are present, and they do show some mineralization. However, my instincts tell me this proposed exploration project is a long shot.

I concur in your thoughts regarding the induced potential survey and I told Mr. Pate that I believed the cost was too high and the results might be misleading. No agreement of any kind was reached with Mr. Pate regarding any possible exploration because it developed that a claim conflict existed, of which we had no prior knowledge. It came to light in this way.

Just before we arrived at the property, Harold Downey of the D. & G. Company (GMX 6367) came up behind us in a Jeep. I recognized him as a former GMX Applicant and I told Pate that I had met Mr. Downey. Pate replied, "Yes, the D. & G. Company have unpatented mining claims some of which are in conflict with ours." That made me wonder if the claims in conflict were the ones covered by GMX 6367. I asked Mr. Pate why he had not told of this conflict in his application and he said that he believed his locations were prior to the D. & G. locations. He indicated that the south end of the property was the area in conflict so I stayed away from there because Downey was in his Jeep up the hill watching us all the time. I kept wondering what he would think of a field examination of an adjacent property when his had been denied without a field examination. When I returned to my office I noted that the D. & G. application was on another property but in the same county.

Some exploration might be warranted and could be done in stages by diamond drilling in fences beginning at the north end of the property. Stage I could consist of the three XX holes on the Big John No. 5 and Free No. 4 as indicated on Plate III which accompanied the application. If results were satisfactory Stage II might include two more fences of holes to the southeast. Stage III could include some more fences if the results of Stage II drilling were good. This type of exploration would keep away from the area of conflicting claims.

The Applicant is hoping for another discovery similar to the Duval Corporation's Mineral Park Mine and may not be interested in such a direct approach to the exploration.

Hugh M. Connors

cc: File
Chron

Bldg. 20, Denver Federal Center
Denver, Colo. 80225

December 29, 1964

Memorandum

To: George C. Selfridge, Chief
Division of Exploration Operations
Washington, D. C. 20240

From: Acting Field Officer, OME, Region III

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Hugh M. Connors

cc: File
Caron

Bldg. 20 - Denver Federal Center
Denver, Colo. 80225

AIR MAIL

November 19, 1964

Mr. Henry H. Leigh
Western Equities, Inc.
1689 Guaranty Bank Bldg.
3550 North Central Ave.
Phoenix, Ariz. 85012

Re: OMM-6378 (Molybdenum)
Yellow Basin Property
Mohave County, Ariz.

Dear Mr. Leigh:

I would like to schedule the field examination of the captioned property for December 2, 1964. Would this date be satisfactory for you or your representative to meet me at the Wallapai Motor Court in Kingman and accompany me to your property?

I have other business in the area and plan to check in at the Wallapai Motor Court the evening of November 30.

Yours very truly,

ORIGINAL SIGNED BY

Hugh M. Connors
Acting Field Officer
OME, Region III

cc: G. C. Selfridge
6378
Chron

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION
WASHINGTON 25, D. C.

NOV 2 1964

Western Equities, Inc.
1629 Guaranty Bank Bldg.
3550 North Central Avenue
Phoenix, Arizona, 85012

Re: OME-6378 (Molybdenum)
Western Equities, Inc.
Yellow Basin Area
Mohave County, Arizona

Gentlemen:

The application for assistance in exploring the subject property has been reviewed by the Division of Exploration Operations of the Office of Minerals Exploration and referred to Mr. H. M. Gammons, Acting Field Officer, Office of Minerals Exploration, Region III, Building 20, Federal Center, Denver, Colorado, 80225.

The Regional Office will notify you in case additional information concerning the application is needed.

Sincerely yours,

George Fumich, Jr.

Acting Director

MMerrithew/nm (10/29/64)
cc: Director's Reading File
✓Region III
Docket

OME
DEPARTMENT OF THE INTERIOR
1964
REGION III

EXTRA COPY
O. M. E.
RECEIVED OCT 26 1964

DATE	INITIALS	CODE

October 23, 1964

Office of Minerals Exploration
United States Department of Interior
Washington 25, D. C.

Re: MME Form 40
Application for Financial Assistance in
Minerals Exploration

Gentlemen:

Enclosed is the application by Western Equities, Inc., for financial assistance on our Yellow Basin property in Mohave County, Arizona. Except for Item 1, "Financial Eligibility" and Item 2, "Applicant's Rights on Land", attached is the required information to accompany this application which are Pages 1 through 17 together with appropriate figures and plates.

Financial Eligibility

Enclosed is Exhibit A which we are submitting as evidence of our efforts to obtain credit from banking institutions for this project.

The funds necessary for our share of the proposed exploration can be handled within the present company structure as the Mining Division's yearly exploration budget is sufficient to cover the company's share over the anticipated period required for this program.

Applicant's Rights on Land

Enclosed is Exhibit B which is our Mining Lease and Option Agreement together with a copy of the Mining Deed and Escrow Agreement applicable to this property.

While we believe we have covered the information required, should there be need for further clarification we will be happy to furnish any additional required information at your request.

We are desirous of pursuing this project at the earliest possible date and would, therefore, appreciate your expediting consideration of this proposal.

Very truly yours,

Henry M. Leigh

Henry M. Leigh
Vice President - Mining

Encl.

HML:mp

October 26, 1964

Western Equities, Inc.
1629 Quaranty Bank Building
3550 North Central Avenue
Phoenix, Arizona 85012

Subject: OME - 6378

Gentlemen:

Your application for exploration assistance, dated October 23, 1964 submitted to our office at Washington, D. C. has been assigned Docket Number OME - 6378.

Please identify all future correspondence relating to your application by this docket number.

Sincerely yours,

Allen S. Dakan, Chief
Division of Administrative
Management

Copy to Region III
with copy of application
and attachments.

Exhibit "A"

VALLEY NATIONAL BANK

MEMBER FEDERAL RESERVE SYSTEM

HOME OFFICE
PHOENIX
ARIZONA

October 16, 1964

Mr. Henry H. Leigh, Vice President
Western Equities, Inc.
1629 Guaranty Bank Building
Phoenix, Arizona

Dear Mr. Leigh:

It was a pleasure to meet with you last Wednesday to discuss the possibility of the extension of a $250,000.00 term loan to Western Equities, Inc. for the purpose of raising needed funds for exploration costs.

As collateral, we were offered your interest in several lease purchase options on 53 patented and unpatented mining claims.

Unfortunately, we are not able to grant your request since we do not, as a matter of policy, advance money for exploration expenses. The collateral offered is likewise not attractive to us. For these reasons, plus the restrictions placed on the company's borrowings by means of a term loan agreement with Business Funds, Inc., we have declined your loan request.

We do appreciate the opportunity of discussing the request with you, and we shall always stand ready to explore future financial needs when they arise.

Yours very truly,

E Stephan

Vice President

Eugene W. Stephan
med

PROTECT YOUR FAMILY — APPOINT THE VALLEY BANK AS YOUR EXECUTOR AND TRUSTEE

WESTERN EQUITIES, INC.

1629 GUARANTY BANK BLDG. / PHOENIX 12, ARIZONA / TELEPHONE 277-2671

October 12, 1964

Mr. E. W. Stephan, Vice President
Commercial Loan Department
Valley National Bank
P. O. Box 71
Phoenix, Arizona

COPY

Dear Mr. Stephan:

Our company presently holds under lease, with option to purchase, 12 patented mining claims and 41 unpatented mining claims located in:

Sections 17, 18, 20 & 29, T 17 N., R. 14 W., Cedar Mining District of Mohave County, Arizona.

From our initial field work, we believe these claims to be an excellent prospect for an open pit producer of copper and molybdenum.

Properties such as this require a large expenditure for exploration and, in this instance, could well involve in excess of $500,000. Because of the large potential requirement for exploration, the company does not wish to embark on the full exploration program unless we have assurance that we can raise sufficient capital to augment the capital presently available within the company in order that we would be able to bring the exploration of such property to a proper conclusion.

I would, therefore, like to discuss with you the possibility of a loan commitment from your company to the extent of $250,000 to be used in the exploration of this property and which we would be willing to assign our interest in this property as collateral.

The exploration of this property and the requirement of funds would be in phases, the first phase of which would require approximately $50,000 and subsequent phases and fund requirements being predicated on results of the preceding phase. The cost of each phase could be handled fifty percent from funds available

within Western Equities and fifty percent from funds made available by your company.

I would like to bring our lease and options on these properties together with the maps, geological reports and estimates of funds required, and go over same with you at your earliest possible convenience in order that we may proceed on this property at the earliest possible date.

We are,

Very truly yours,

Henry H. Leigh

HHL/s

Henry H. Leigh,
Vice President

FIRST NATIONAL BANK OF ARIZONA

PHOENIX, ARIZONA

ROBERT M. JAAP
VICE PRESIDENT

October 14, 1964

Dear Mr. Leigh:

Thank you for your letter of October 12, in which you gave us an opportunity to consider a loan in the amount of $500,000.00 for the purpose of conducting exploration work in the Cedar Mining District of Mohave County, Arizona, for the production of copper and molybdenum.

I enjoyed very much looking over your maps. It appears that your claims could be quite profitable if present indications from that part of the state are any criterion.

It is with considerable regret that we admit that we are not able to favorably consider your request, for two reasons. First, the repayment schedule of five to ten years is in excess of the period of time that we like to consider in view of our high demand for short term funds. Second, the patented and unpatented mining claims do not constitute normal bank collateral since they are not of the type that is usually marketable in our normal course of business.

Even though we are not able to handle this request, we would like you to know that we would be very happy to consider other types of financing more normal to banking procedures. These could include short term credits as well as financing in connection with production equipment. All of this, of course, is based on the assumption that you folks will eventually get into a production schedule.

Again, thank you for giving us an opportunity to handle this matter for you.

Sincerely,

Henry H. Leigh, Vice President
Western Equities, Inc.
1629 Guaranty Bank Building
Phoenix 12, Arizona

RMJ:sp

WESTERN EQUITIES, INC.

1629 GUARANTY BANK BLDG. / PHOENIX 12, ARIZONA / TELEPHONE 277-2671

October 12, 1964

COPY

Mr. Robert M. Jaap,
Vice President
First National Bank of Arizona
Phoenix, Arizona

Dear Mr. Jaap:

Our company presently holds under lease, with option to purchase, 12 patented mining claims and 41 unpatented mining claims located in:

Sections 17, 18, 20 & 29, T. 17 N.,
R. 14 W., Cedar Mining District of
Mohave County, Arizona.

From our initial field work, we believe these claims to be an excellent prospect for an open pit producer of copper and molybdenum.

Properties such as this require a large expenditure for exploration and, in this instance, could well involve in excess of $500,000. Because of the large potential requirement for exploration, the company does not wish to embark on the full exploration program unless we have assurance that we can raise sufficient capital to augment the capital presently available within the company in order that we would be able to bring the exploration of such property to a proper conclusion.

I would, therefore, like to discuss with you the possibility of a loan commitment from your company to the extent of $250,000 to be used in the exploration of this property and which we would be willing to assign our interest in this property as collateral.

The exploration of this property and the requirement of funds would be in phases, the first phase of which would require approximately $50,000 and subsequent phases and fund requirements being predicated on results of the preceding phase. The cost of each phase could be handled fifty percent from funds available

within Western Equities and fifty percent from funds made available by your company.

I would like to bring our lease and options on these properties together with the maps, geological reports and estimates of funds required, and go over same with you at your earliest possible convenience in order that we may proceed on this property at the earliest possible date.

We are,

Very truly yours,

Henry H. Leigh

HHL/s

Henry H. Leigh,
Vice President

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION

Bldg. 20, Denver Federal Center
Denver, Colo. 80225

December 29, 1964

Memorandum

To: George C. Selfridge, Chief
Division of Exploration Operations
Washington, D. C. 20240

From: Acting Field Officer, OME, Region III

Subject: OME-1378 (Molybdenum)
Western Equities, Inc.
Yellow Basin Property
Mohave County, Arizona

Attached is a copy of the assay returns on the sample taken along the trail to the proposed three north drill sites which are probably on the Big John No. 5, and Peco No. 4. The sample consisted of the altered (favorable??) rock which stands out, particularly as contrasted to adjacent pre-Cambrian.

The road to the property reaches the Leviathan claims first. The Leviathan shaft served a group of patented claims. The shaft is probably 300± feet deep and is filled with water to the 60-foot level. An old mill operated near the shaft -- all that remains is a dilapidated wooden tank. Some of the old work was by Molybdenum Corporation of America. The most recent work was the diamond drilling of five (??) holes by Inspiration Consolidated Copper Company. Much of the Inspiration drill core (BX) was scattered around near the Leviathan shaft. No molybdenum mineralization was noted in the scattered core and according to M. L. Pate, chief engineer of Western Equities, who accompanied me, Inspiration was disappointed with the thickness of the Leviathan vein. I am told that Climax Molybdenum Co. examined the Leviathan and turned it down. The U.S. Bureau of Mines has no record of production from either the Leviathan or American claims.

The American claims are at the lowest point and the ground rises rapidly to the north to the top of a ridge. Just below the top of the ridge the Applicant proposes to drill three holes.

The altered areas shown on the map are present, and they do show some mineralization. However, my instincts tell me this proposed exploration project is a long shot.

I concur in your thoughts regarding the induced potential survey and I told Mr. Pate that I believed the cost was too high and the results might be misleading. No agreement of any kind was reached with Mr. Pate regarding any possible exploration because it developed that a claim conflict existed, of which we had no prior knowledge. It came to light in this way.

Just before we arrived at the property, Harold Downey of the D. & G. Company (OMX 6367) came up behind us in a Jeep. I recognized him as a former OMX Applicant and I told Pate that I had met Mr. Downey. Pate replied, "Yes, the D. & G. Company have unpatented mining claims some of which are in conflict with ours." That made me wonder if the claims in conflict were the ones covered by OMX 6367. I asked Mr. Pate why he had not told of this conflict in his application and he said that he believed his locations were prior to the D. & G. locations. He indicated that the south end of the property was the area in conflict so I stayed away from there because Downey was in his Jeep up the hill watching us all the time. I kept wondering what he would think of a field examination of an adjacent property when his had been denied without a field examination. When I returned to my office I noted that the D. & G. application was on another property but in the same county.

Some exploration might be warranted and could be done in stages by diamond drilling in fences beginning at the north end of the property. Stage I could consist of the three NX holes on the Big John No. 5 and Pace No. 4 as indicated on Plate III which accompanied the application. If results were satisfactory Stage II might include two more fences of holes to the southeast. Stage III could include some more fences if the results of Stage II drilling were good. This type of exploration would keep away from the area of conflicting claims.

The Applicant is hoping for another discovery similar to the Duval Corporation's Mineral Park Mine and may not be interested in such a direct approach to the exploration.

Hugh M. Connors

cc: File
Chron

6-303
(March 1947)

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
Salt Lake City, Utah

No. 3-S

Report to Mr. Hugh M. Connors

Chemical Laboratory Report

Date received 12/10/64 14.4277.3 Date reported 12/16/64

Serial No.	DESCRIPTION	Lot No.	Pct. Cu	Mo
	Yellow Basin Property, Secs 17, 18, 20, and 29, T. 17 N, R. 14 W, Mohave County, Arizona			
S-1056	Altered granite containing quartz, copper, and molybdenum	OME 6378 (Molybdenum)	0.78	0.12

Charges:

1 Cu detn. at 3.00

1 Mo " 5.00

8.00 Total

U.S. GOVERNMENT PRINTING OFFICE : 1960 O—566747 16—33553-3

Signed Heber E. Peterson

GENERAL OFFICE:
1629 GUARANTY BANK BLDG.
PHOENIX 12, ARIZONA

WESTERN EQUITIES, INC.

BOX 95 / GRAND CANYON, ARIZONA / TELEPHONE 638-2426

December 10,1964

Mr. Hugh M. Connors
Acting Field Officer
Office of Minerals Exploration, Region III
Building 20, Federal Center
Denver, Colorado 80225

Re: OME-6378(Molybdenum)
Yellow Basin Property
Mohave County, Arizona

Dear Mr. Connors:

Two prints of Claim Map, Yellow Basin Property are enclosed. We believe that this will furnish you the desired information showing the overlap of the D. and G. Mining Company claims.

The recording of the mining claims was checked at the County Court House, Kingman, Arizona. Data relative to the overlap of the D. and G. claims are as follows:

		Date Posted in Field	Date Recorded
Potlicker #7	(Robinett)	1-29-63	4-24-63
Bud 40	(D & G)	2-1-63	3-18-63
Bud 1	(D & G)	2-1-63	2-5-63
Potlicker #5	(Robinett)	11-24-62	2-4-63
Bud 1	(D & G)	2-1-63	2-5-63
Bud 26	(D & G)	2-1-63	3-18-63
Potlicker #3	(Robinett)	11-24-62	2-4-63
Bud 26	(D & G)	2-1-63	3-18-63
Bud 2	(D& G)	2-1-63	2-5-63
Bud 44	(D & G)	1-31-63	3-18-63
Potlicker #1	(Robinett)	11-23-62	2-4-63
Bud 2	(D & G)	2-1-63	3-18-63
Bud 44	(D & G)	1-31-63	3-18-63
Bud 29	(D & G)	2-1-63	3-18-63
Potlicker Jr.	(Robinett)	11-18-62	12-20-62
Bud 44	(D & G)	1-31-63	3-18-63
Bud 29	(D & G)	2-1-63	3-18-63
Bud 3	(D & G)	2-1-63	2-5-63
Bud 45	(D & G)	1-31-63	3-18-63

Smokey #1	(Robinett)	1-9-63	3-13-63
Bud 3	(D & G)	2-1-63	2-5-63
Bud 45	(D & G)	1-31-63	3-18-63
Bud 32	(D & G)	2-1-63	2-26-63
Bud 7	(D & G)	2-1-63	2-5-63
Smokey #3	(Robinett)	1-9-63	4-8-63
Bud 45	(D & G)	1-31-63	3-18-63
Bud 32	(D & G)	2-1-63	2-26-63
Bud 7	(D & G)	2-1-63	2-5-63
Bud 4	(D & G)	2-1-63	2-5-63
Bud 38	(D & G)	2-1-63	2-26-63
Smokey #4	(Robinett)	1-9-63	4-8-63
Bud 7	(D & G)	2-1-63	2-5-63
Bud 38	(D & G)	2-1-63	2-26-63
Bud 39	(D & G)	2-1-63	2-26-63
Bud 6	(D & G)	2-1-63	2-5-63

A study of the above data indicate that all of Robinett's claims involved in the overlap were located prior to location of the overlapping D. & G. claims.

Page 1 and Page 2 of our application showed certain unpatented mining claims without any book number or page number for recording. This indicated that the claims had been located and staked but not recorded. The matter of recording the claims was discussed with Dalton Robinett, the owner, who assured us that all the claims were in order and ready for recording. He also stated that he would record them before the expiration of allowed time.

Kindly contact us for any additional information that may be required.

Very truly yours,

M. L. Pate

M. L. Pate
Chief Engineer
Exploration Department

MLP:mp
Encl:

cc: H. H. Leigh

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION
Bldg. 20 - Denver Federal Center
Denver, Colorado 80225

December 7, 1964

Memorandum

To: B. H. Clemmons, Research Director
Salt Lake City Metallurgy Research Center
Salt Lake City, Utah

From: M. M. Connors, Acting Field Officer
OME, Region III

Subject: Sample from Mohave County, Arizona

One sample was shipped today via parcel post to the Salt Lake Metallurgy Research Center.

The original and one copy of Form 7353 are enclosed. The work should be charged to 14.4277.3.

ORIGINAL SIGNED BY

M. M. Connors

Attachments

STRATEGIC MINERAL PROJECT

Information supplied the Metallurgical Division
regarding samples submitted

Date December 7, 1964

Name and Location of property:
Yellow Basin Property, Secs 17, 18, 20, and 29, T. 17 N, R. 14 W,
Mohave County, Arizona

Sample identification number: OME 6378 (Molybdenum)

Number of samples in shipment (estimated if necessary): One

General nature of ore (type, minerals present, etc.):

Altered granite containing quartz, copper, and molybdenum

Analyses or assays required: Copper, molybdenum

Other tests desired: None

Name and address of
Project Engineer
Hugh H. Connors
Acting Field Officer
OME, Region III
Bldg. 20, Denver Federal Center
Denver, Colo. 80225

7353
Charge: 14.4277.3

I'd buy the area of "Excellent alteration" Plat II

A. Prefers I.P. Survey.

Where considerable pyrite exists the induced potential survey might be very misleading as to MoS_2 potential

Why not drill shallow? ? holes at favorable locations as Stage I to see if add'l drilling is warranted.

Get samples.

Have Agg. get 3 bids on Bulldozer + drilling.

Get map showing individual claims

Some recording data is lacking

Part of Leviathan group (patented) overlies some of project area - clarify.

Pate

Downey M.O.+G. Salem 6367

Costs are excessive on Support labor
+ care of slug samples + core.

Little rainfall - Tarpaulins off
for

WESTERN EQUITIES, INC.

1629 GUARANTY BANK BLDG. / PHOENIX 12, ARIZONA / TELEPHONE 277-2671

November 20, 1964

Mr. Hugh M. Connors, Acting Field Officer
OME, Region III
Bldg. 20, Denver Federal Center
Denver, Colorado 80225

In Re: OME-6378 (Molybdenum) Yellow Basin Property, Mohave County, Arizona.

Dear Mr. Connors:

Mr. Leigh had to leave town this morning before he could answer your letter of November 19th. However, he did ask me to advise you that he is looking forward to meeting you on December 2nd and accompanying you to the Yellow Basin property.

It is my understanding that Mr. Castagne, of our Grand Canyon office, previously talked to you by phone and arranged for Mr. Pate to also meet you on December 2nd at the Wallapai Motor Court in Kingman.

We note you will be arriving November 30th, and no doubt Mr. Leigh will contact you by phone to arrange a meeting time.

Sincerely,

Shirley Gregory

Shirley Gregory,
Secretary to Mr. Leigh.

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION
WASHINGTON 25, D. C.

NOV 2 1964

Memorandum

To: Acting Field Officer, Region III

From: Chief, Division of Exploration Operations

Subject: OME-6378 (Molybdenum)
Western Equities, Inc.
Yellow Basin Area
Mohave County, Arizona

The subject application is referred to Region III for review, a field examination, and recommendations.

The country rock in the Yellow Basin area appears to be favorable for a disseminated deposit of molybdenum; however, we do not concur with the elaborate and costly exploration program proposed.

The areas of "excellent alteration" as shown on Plate II appear to present sufficient favorable targets without making the proposed geological and induced potential surveys. With regard to the induced potential survey, such work could determine the possible location of sulfide mineral concentrations; however, in the proposed exploration areas which, according to the application contain considerable pyrite, the results might be very misleading as to the MoS_2 potential.

It is suggested that if you consider an exploration project warranted, the initial work should consist of drilling shallow holes at favorable locations. The results of this drilling should indicate whether or not additional drilling on the property is warranted. If you agree, this proposal could be discussed with the Applicant.

Although the application states that samples of the oxidized surface material are not representative of the true molybdenum and copper content of the mineralized areas, we suggest that you take some samples from the favorable areas during the examination.

In the event an agreement is reached regarding the method of exploration, the Applicant should be requested to submit bids from three independent contractors for the bulldozer and drilling work; also,

a map showing the location of the individual claims is needed. We note that in the Mining Lease and Option Agreement the recording data for a number of claims are lacking. Also, we note that part of the Leviathan group of patented claims overlaps some of the proposed project area. These discrepancies should be clarified.

You will note that the Applicant's cost estimates are excessive, especially for supervision and labor, and the care of core and sludge samples. Since the area to be drilled has little rainfall, it seems that tarpaulin covers for core and sludge sample storage would be sufficient, at least in the beginning.

George C. Selfridge

MME Form 40
July 1962

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION

Budget Bureau No. 42-R1368
Approval expires Dec. 31, 1963

APPLICATION FOR FINANCIAL ASSISTANCE IN MINERALS EXPLORATION

Pursuant to Public Law 85-701 (72 Stat. 700; 30 U.S.C. 641)

NAME OF APPLICANT *(Full legal name and mailing address as they should appear on contract if one is executed.)*

Western Equities, Inc.
1629 Guaranty Bank Bldg.
3550 North Central Avenue
Phoenix, Arizona 85012

OME
DEPARTMENT OF THE INTERIOR
OCT 1964
REGION III
DENVER, COLORADO

APPLICANT DO NOT USE THIS BLOCK

DOCKET NUMBER 6378

DATE RECEIVED 10/26/64

REGION III

DIVISION CODE

BUSINESS ORGANIZATION *(Check one)*

INDIVIDUAL	
CORPORATION	X
PARTNERSHIP	
OTHER *(Specify)*	

STATE IN WHICH FIRM IS ORGANIZED Nevada

LIST CORPORATE OFFICERS OR PARTNERS HERE, IF APPLICABLE

NAME	ADDRESS	TITLE
C. A. Griffin, Jr.,	Houston, Texas	Asst. Secretary
Ernest M. Hall, Jr.	Houston, Texas	President
Richard W. Ince	New York, New York	Vice President
Henry H. Leigh	Phoenix, Arizona	V. P. Mining
David P. Shirra	New York, N.y.	Vice President
Richard B. Snell	Phoenix, Arizona	Secretary
James W. Williams	Houston, Texas	Chrm. of Board
George J. Wolf	Phoenix, Arizona	Executive V. P.-Investments

MINERAL(S) FOR WHICH YOU WISH TO EXPLORE
Molybdenum

ESTIMATED COST OF PROJECT
$498,513.00

PROPERTY NAME	LOCATION COUNTY	STATE
Yellow Basin	Mohave	Arizona

GENERAL INSTRUCTIONS

Before filling out this application, please read the *OME Regulations for Obtaining Federal Assistance in Financing Explorations for Mineral Reserves* (30 CFR Chap. III). To assure prompt action, your application must provide all applicable material and information specified on the back of this application form. Avoid unnecessary correspondence and delays by submitting complete and accurate information. *Please submit two copies of this application and all accompanying papers* except as otherwise noted. Place your name and address on each sheet. Each item of information, maps, and reports required as a part of this application is described on the back of this form. Identify each attached statement by the item number to which it applies. If an item does not apply to your application, show the item number on your statement and after it write "not applicable." Maps or sketches should be used to supplement narrative descriptions of the property location and boundaries in item 2, existing mine workings and geology in item 3, and the proposed exploration work in item 5. When this information is not too complex, all of it may be shown on one map or sketch. All documents and other attachments submitted as a part of this application, except those in item 3(g) which you mark to be returned, become the property of the Government and will not be returned to the applicant. Send true copies, *not originals*, of leases, contracts, and other documents which are an essential part of your business records. *File this application with the Office of Minerals Exploration, Department of the Interior, Washington 25, D. C., or with the nearest OME Field Office.*

CERTIFICATION

The undersigned, whether as an individual, corporate officer, partner, or otherwise, both in his own behalf and acting for the applicant, certifies that the information set forth in this form and accompanying papers is correct and complete, to the best of his knowledge and belief, and that he would not ordinarily undertake the proposed exploration under current conditions and circumstances at his sole expense.

October 23, 1964
DATED

Henry H. Leigh
BY *(Signature)*

Henry H. Leigh, V. P. Mining
TITLE

A wilfully false statement or certification to any Department or Agency of the United States Government is a criminal offense. U. S. Code, Title 18, Sec. 1001.

INFORMATION REQUIRED WITH THIS APPLICATION

1. Financial Eligibility:

(a) Submit evidence of efforts made within 90 days preceding the filing of this application to obtain credit from your bank of account and at least one other banking institution or other private source of credit. Such evidence shall include true copies of correspondence which show: (1) date of loan request, (2) amount and terms requested, (3) proposed use of loan funds, and (4) the replies from credit sources. If the loan was offered under terms which you consider unreasonable, state why you consider them so.

(b) List names and addresses of affiliated, parent, or controlling companies or organizations and state extent and nature of their interest.

(c) State how you propose to furnish your share of the cost of the exploration work.

2. Applicant's Rights in Land:

(a) State your interest in the land and mineral rights, whether owner, lessee, purchaser under contract, or other. If you are not the owner, submit one true copy of the lease, contract, or other document (with address of owner) under which you control the property. Describe all liens, mortgages, or other encumbrances on the land and state book and page number and official place where recorded.

(b) State the legal description (section, township, and range; metes and bounds; patent number of claims) of the land upon which you wish to explore and all adjacent land which you own or control. Describe any part of the land or workings which should not be subject to Government royalty and liens. If the land consists of unpatented claims, state book and page number for each recorded location notice, including amended locations, and official place where recorded. State all the names by which you know the property.

(c) For all land or mineral rights encumbered or not owned, submit five copies of Lien and Subordination Agreements on MME Form 52. If the agreements cannot be obtained, state reasons and provide copies of letters of refusal.

3. Physical Description:

(a) Describe in detail and illustrate with maps or sketches all mining or exploration operations which you know have been or are being conducted upon the land. Include existing mine workings and all production facilities.

(b) State your interest, if any, in operations described in (a).

(c) State, if you know, the past and current production, supporting your statement with copies of settlement sheets, mine records, or published data if available.

(d) Describe known ore reserves, giving quantities and grades and sampling methods used. Support your statement with copies of assay certificates and assay maps if available.

(e) Describe by narrative and maps or sketches the geologic features of the property, including ore minerals, geologic formations if known, and type of deposit (vein, bedded, etc.).

(f) State your reasons for expecting to find ore, and if you have sampled the area you propose to explore, show where the samples were taken, describe sampling methods used, and provide copies of assay certificates.

(g) Send with your application at least *two* copies of all geologic or engineering reports, assay maps, or technologic information which you have, indicating whether you require their return.

4. Accessibility of Property:

(a) To aid the OME representative who may examine the property, state name and address of person who will meet him; give directions for reaching the property; and describe accessibility of property and of any mine workings.

(b) Name the shipping and supply points and state the distances to the property.

5. Exploration Work:

(a) Describe fully the proposed exploration work giving individual footages and sizes of openings *for each item of work.* Use narrative, maps, plans, and sections as necessary. Show location of the proposed work as related to geologic features such as veins, ore-bearing beds, contacts of rock formations, etc. Show also the relation of the proposed work to any existing mine workings and to *land boundaries* or to the closest identifiable corner.

(b) If an access road must be built, show the proposed location on the property map and state the length, type and construction methods proposed.

(c) If an OME contract is executed, state how soon thereafter work would be started and finished. State your anticipated average daily or monthly rate of progress for each type of work.

6. Experience:

State your operating experience and background to conduct this exploration work and also that of the person who will supervise the work.

7. Estimate of Costs:

Furnish detailed estimates of the necessary costs *for each item of the work proposed in 5(a)* under the headings listed below with a total for each heading and the estimated total cost of the work. Costs for any work to be performed by an independent contractor should be listed separately under category (a) below. Costs for any work that is not to be performed by an independent contractor should be listed under categories (b) through (g).

(a) Independent contracts. State the total cost of any proposed independent contract for all or any part of the work, and the number of units and the unit cost for each type of work, such as per foot of drilling, per foot of drifting, per hour of bulldozer operations, or per cubic yard of material moved. Cost estimates should be supported by bids from three contractors if possible. (*Note*—If none of the work is to be contracted, write "none" after this item.)

(b) Personal services. The cost of supervision, engineering and geological services, outside consultants, and labor should be itemized by numbers and classes of employees; rates of wages, salaries or fees; and periods of employment. State whether these services are available.

(c) Operating materials and supplies. List items of material and supplies giving quantity and cost of each. Include under this heading power, water, and fuel, and units of equipment and tools costing less than $50 each.

(d) Operating equipment. List items of equipment and tools costing $50 or more per unit. Give specifications and indicate how each item is to be acquired—i.e., rented, purchased or provided by the applicant. If rented or purchased, state the estimated rental or purchase price. If furnished by the applicant, state condition and present fair market value.

(e) Initial rehabilitation and repairs. Describe the type and the cost of *initial* rehabilitation or repair of existing buildings, fixtures, installations (exclusive of mine workings), and movable operating equipment now owned by the applicant which will be used in the exploration work.

(f) New buildings, fixtures, installations. Describe each building, fixed improvement, and installation to be purchased, constructed, or installed for the exploration work, stating specifications and cost including labor, materials, and supervision.

(g) Miscellaneous. Describe the type and estimate the cost of repairs and maintenance of the operating equipment listed in 7(d). Do not repeat initial repairs listed in 7(e). Show also the costs of analytical work, accounting, workmen's compensation and employees' liability insurance, payroll taxes, and other required costs that do not fall within the previous categories. [*Note*—The Government will not contribute to costs incurred before the date of the contract, or to costs of or incident to: (1) acquiring, using, or possessing land and any existing improvements, facilities, buildings, installations, and appurtenances, or the depreciation and depletion thereof; (2) general overhead, corporate management, interest and taxes (other than payroll and sales taxes); (3) insurance (other than employees' liability insurance); and (4) damages to persons or property (other than authorized repair to or replacement of equipment or other property used in the work).]

INT.-DUP. SEC., WASH., D.C.11879

Western Equities, Inc.,
1629 Guaranty Bank Bldg.
3550 North Central Ave.
Phoenix, Arizona - 85013

Financial assistance is requested on the exploration for Molybdenum in a mining property known as Yellow Basin. Plate II shows the area with the Robinett Claims shown as a group. The unpatented lode mining claims are as follows:

Lease & option from Robinette

EXHIBIT A

MINING PROPERTIES

The unpatented lode mining claims, situate in the Cedar Mining District, Mohave County, State of Arizona, the names, and books and pages of the record of the notices of location whereof in the office of the County Recorder of Mohave County, Arizona, are as follows:

NAMES	BOOK OF MINES	PAGE
Smokey #1	5 S	398
Smokey #2	5 S	460
Smokey #3	5 S	461
Smokey #4	5 S	462
Potlicker Sr.	5 S	174-175
Potlicker Jr.	5 S	172-173
Potlicker #1	5 S	277-278
Potlicker #2	5 S	231-232
Potlicker #3	5 S	279-280
Potlicker #4	5 S	359
Potlicker #5	5 S	281-282
Potlicker #6	5 S	133-134
Potlicker #7	5 S	498
Big John #1	5 S	463
Big John #2	5 S	464
Big John #3	5 S	464
Big John #4	5 S	466
Big John #5		
Big John #6		
Big John #7		
Peco #1	5 R	62
Peco #2	5 R	96
Peco #3	5 R	97
Peco #4		
Peco #5		
Peco #6		

Western Equities,Inc.,
1629 Guaranty Bank Bldg.
3550 North Central Ave.
Phoenix, Arizona - 85013

Exhibit A - continued

NAMES	BOOK OF MINES	PAGE
Sunshine #1	5 U	425
Sunshine #2		
Sunshine #3	5 U	426
Sunshine #4		
Sunshine #5	5 U	427
Sunshine #6		
Sunshine #7		
Sunshine #8		
Sunshine #9		
Sunshine #10		
Sunshine #11		
Sunshine #12		
Sinco #1		
Sinco #2		
Sinco #3		

In addition to the claims listed Western Equities hold 5 year mining lease and option agreements on the Leviathan group of 7 patented claims and the American Group consisting of 5 patented claims. Both properties were underground vein mines and have been inactive for many years. Production from these properties is not known. No assistance is requested to explore the Leviathan Group or the American Group.

The Yellow Basin property has had no production or mining operation other than Hammey Camp shown in the upper central part of Plate II. This operation was an underground mine on two or three veins. Operations probably ceased approximately 40 years ago and production history is unknown.

A complete description of the geological and mineralogical conditions of this property are covered in the Preliminary Geologic Work - Yellow Basin section of this application. All preliminary work is covered and conditions cited that are favorable to deposition of Molybdenum.

An OME representative who wishes to examine the property should contact Mr. H. H. Leigh, Vice President, Western Equities,Inc., 1629 Guaranty Bank Bldg., 3550 North Central Avenue, Phoenix, Arizona - 85013, Telephone 602-277-2671. Contact should be made approximately 6 days in advance of planned visit to allow notification of field supervisor.

Shipping Point - Kingman, Arizona - approximately 60 miles

Supply Points - Kingman, Arizona - 60 miles
Phoenix, Arizona - 190 miles
Los Angeles, California - 375 miles

Experience

The operator known as Western Equities has in excess of 15 years experience exploring mineral deposits and operating metal mines. The company is adequately staffed for the exploration of mineral deposits.

The Exploration Geologist's experience consists of approximately 7 years as exploration geologist and 3 years mine geologist.

The exploration work will be under the direct supervision of the Chief Engineer, Exploration Department, who has a background of more than 25 years in the mining industry devoted to production, exploration, engineering, and admininstration.

The estimated cost of the exploration and time required for completion is as follows.

STEP	COST	TIME REQUIRED
I	$ 55,935.00	6 Months
II	245,245.00	12 Months
III	119,333.00	6 Months
IV	78,000.00	8 Months
TOTAL	$ 498,513.00	2 years 8 months

The following section - Exploration Program - describes the work proposed and the estimate cost. The proposal is divided into 4 steps in order to be able to evaluate the project after completion of certain phases of the work. Each phase of the work will be closely controlled, methods of exploration changed where advisable, and a study with evaluation made at the completion of each step to determine if it is economically advisable to continue the exploration. If at anytime the results indicate that the mineralization is insufficient to produce a mineral deposit that can be mined at a profit the project will be abandoned.

Preliminary Geologic Work - Yellow Basin Area

The geology of the Yellow Basin Area is based on a ten day field reconnaissance trip and the study of a large scale (1 inch = approximately 440 feet) aerial photograph.

Location and Physiography

Yellow Basin is located in the southeast portion of the Hualpai Mountains, T. 17 N., R. 14 W., Secs. 17, 18, 20 and 29, and is approximately 59 miles southeast of Kingman, Arizona via Arizona State Highway 93. The area must presently be reached over 16 miles of dirt road in moderate to very poor condition. Figure 1.

Elevations range from 3000 to 5000 feet - the relief being generally very steep. The climate is arid, with rainfall less than 5 inches per year. Vegetation is sparse, and consists of cacti, small shrubs and pinon trees.

Drainage from Yellow Basin is south to Deluge Wash, then east for about 9 miles to the Big Sandy River. In the northern part of the area, drainage is north to Crow Canyon, east around Diamond Joe Peak, and then south to Deluge Wash (Plate II).

Lithology

Precambrian Rocks

The rocks surrounding the Yellow Basin area have been given Precambrian age by the Arizona Bureau of Mines and described as granite gneiss on their Geologic Map of Mohave County, Arizona. No study was made on these rocks, as they do not yet appear to be related to the mineralization in the Yellow Basin area.

Laramide Intrusive Rocks

The intrusive rocks in the Yellow Basin area consist of granite porphyry, quartz diorite, and possibly quartz monzonite. All are of Laramide age, according to the Arizona Bureau of Mines Geologic Map of Mohave County, Arizona.

The granite porphyry, located in the eastern portion of the map area (Plate I), will here be referred to as the Diamond Joe Granite. It is generally white to grey on weathered and fresh surfaces, and weathers to knobs and spires. Hand specimen examination shows the rock to be composed of orthoclase crystals up to 3 cm long in a medium grained groundmass of orthoclase, plagioclase, and muscovite.

The quartz diorite is located in the central portion of the map area (Plate I), and is the principal rock in the Yellow Basin mineralized area. It is grey to orangish yellow on weathered surfaces and grey on fresh surfaces. Very likely the yellow color is due to the oxidation of pyrite and molybdenite, forming limonite and molybdite. Generally the rock is highly altered, and to some degree replaced by sericite.

Examination of a fresh hand specimen shows the diorite to be medium grained, generally less than 5 mm, and to consist mainly of plagioclase, with monor orthoclase, quartz, and biotite.

One shallow diamond drill hole, located in the central portion of Yellow Basin, penetrated a rock that has been described as quartz monzonite. This rock type was, however, not recognized in any outcrops.

Not enough study has yet been made in the Yellow Basin area to ascertain the age relationships of the various intrusives, but it is likely that the Diamond Joe granite is the oldest, as the quartz diorite appears to have intruded it.

Structure

Field reconnaissance work and an aerial photograph study of the Yellow Basin area has revealed the presence of three dominant structural trends.

The first, and possibly most important of the three, strikes approximately N 60° - 65° E. (Plate I), and appears to have been a controlling factor in the mineralization of Yellow Basin. Veins of the American and Leviathan mines, southwest of Yellow Basin, strike in this direction, as well as do numerous fractures, veins, and veinlets in the quartz diorite in Yellow Basin proper. This trend appears as a single strong break in the Precambrian metamorphic and the Diamond Joe granite.

The second trend (Plate I), which strikes approximately E-W, does not appear as a single strong break in the Yellow Basin area, but as a dominant direction of jointing in the Diamond Joe granite. This trend when projected westward from Hammey Camp mine reaches the Copperville mine. Aligned along it are many quartz veins and, in particular, one mineralized porphyry dike. For the purposes of this report, this trend will be referred to as the Copperville lineament.

The third main structural trend (Plate I) strikes N 30° W and is very likely post-mineral, although not enough study has yet been made to prove this. This trend appears as a strong fracture zone, generally from one-half to one-fourth mile wide, approximately one mile east of Yellow Basin proper.

There are also many veins and veinlets in and around Yellow Basin which are not aligned along any of these three main structural trends, but seem to radiate from a common point somewhat east of Yellow Basin proper.

Mineralization

The ore minerals in Yellow Basin consist of molybdenite, chalcopyrite, and pyrite. Zoning is well defined; with a central molybdenite-pyrite zone, a peripheral chalcopyrite - molybdenite - pyrite zone, and an outlying lead-zinc-silver zone.

The mineralization in the central zone, which is located in the vicinity of the quarter corner between sections 20 and 29 (Plate II), consists of molybdenite and pyrite as disseminations in the quartz diorite and in quartz veinlets. The Diamond Joe granite, directly east of this zone, has not been found to contain either copper or molybdenum mineralization.

Mineralization in the peripheral zone consists of chalcopyrite, molybdenite and pyrite as disseminations in the quartz diorite, and to an appreciable extent in quartz veins, which range in thickness from one foot to 15 feet. This zone extends roughly as a semi-circle around the central zone, and terminates against the Diamond Joe granite on the east (Plate II). The Leviathan, American, and Hammey Camp mines are situated within this peripheral zone.

The third recognized zone extends at least 4 miles from the central area of mineralization, and is characterized by lead, zinc, silver, and minor copper mineralization. Located in this zone are the Diamond Joe, Copperville, Chinaman, Grannis and Arizona Venture mines. Present exploration plans do not include this outer zone however.

Alteration

Hydrothermal alteration in the central and peripheral zones is characterized by abundant quartz and sericite, suggesting ore deposition under mesothermal conditions. The quartz and sericite are confined mainly to fractures, although portions of the quartz diorite have been completely replaced by sericite.

Sampling

During field reconnaissance work, a total of 23 random samples were taken in Yellow Basin proper. All samples taken were of surface material, both from veins and from the weathered quartz diorite. Average grade of these samples was .118% Total Mo., and .192% Cu. It must be emphasized that these samples were of oxidized surface material and are not representative of the true molybdenum and copper content of the mineralized area. It is also significant that not one of the samples taken had less than .005% Total Mo. See Figure 2, Figure 3, and Plate II.

Summary and Conclusions

Primary disseminated molybdenum and copper mineralization in the Yellow Basin area is within a quartz diorite stock of Laramide age. This stock has been intruded near the intersection of three dominant structural trends. Mineralization is well zoned; with a central zone of molybdenite-pyrite, a peripheral zone of chalcopyrite-molybdenite-pyrite, and an outlying lead-zinc-silver zone.

The combination of disseminated mineralization in a quartz diorite stock located at the intersection of three main structural trends, along with well defined mineral zoning and strong sericitic alteration make the Yellow Basin area very promising. Preliminary sampling of surface material which showed significant amounts of molybdenum and copper favorably indicate the possibility of a large, low-grade deposit that may be amenable to an open pit operation.

EXPLORATION PROGRAM

STEP I - Preliminary Exploration

Purpose - To determine if the mineralization is sufficient to warrant an extensive exploration drilling program.

Plan of Work - The area will be geologically mapped on the surface to obtain necessary data for the application of a geophysical survey. Upon completion of the study of the geological data the location of the geophysical survey will be determined and then an induced potential survey will be run to determine the possible location of a sulfide mineral concentration. Upon the determination of this concentration the drill site locations for two groups of holes as shown on Plate II will be selected.

It is planned to drill six (6) diamond drill holes to depths of 300 ft. per hole unless the geological structure encountered warrants a modification. The geological study of the surface will determine the inclination of the drill holes. There is preliminary work required on the above plan and also necessary work to follow. All work required in the first (1st.) step is covered in the following estimate of cost.

Estimated Cost - Step I

1. Access Road to Yellow Basin Area (This required to do surface geological work and geophysical survey).

Contract D-8 Dozer with Operator			
7 days @ $200.00		$1,400.00	
Move in, move out charge		225.00	
Supervision			
Salary	$260.00		
Workman's Comp.& Ins.	24.70		
Payroll Taxes	14.30	299.00	
			1,924.00

2. Establishment of Survey Control Stations

Jackhammer rental		125.00	
Calculator Rental		25.00	
Material		100.00	
Labor (3man crew-15 days)			
Salary	1,040.00		
Workman's Comp.&Ins.	98.80		
Payroll Taxes	57.20	1,196.00	

Estimated Cost - Step I - continued

3. Geological Mapping

2 man crew 60 days			
Salary	3,000.00		
Workman's Comp.&Ins.	285.00		
Payroll Taxes	165.00		
		3,450.00	
Equipment Rental			
Calculator	100.00		
Plane Table	250.00		
		350.00	
Supervision			
Salary	900.00		
Workman's Comp. & Ins.	85.50		
Payroll Taxes	49.50		
		1,035.00	
			4,835.00

4. Installation of Drill Water

Supply System			
Air Pipe	300.00		
Water Pipe	250.00		
Water Tank	500.00		
Misc. Fittings	100.00		
Air Compressor Rental			
3 mo. @ 500.00	1,500.00		
Water Pump Rental			
3 mo. @ 100.00	300.00		
		2,950.00	
Installation Labor			
Labor	360.00		
Workman's Comp.& Ins.	32.20		
Payroll Taxes	19.80		
		412.00	
Operating Supplies			
3 mo. @ 100.00		300.00	
Operating Labor			
3mo. @ 200.00	600.00		
W.C. & Ins.	57.00		
Payroll Taxes	33.00		
		690.00	
			4,352.00

Estimated Cost - Step I - continued

5. Geophysical Survey

Induced Potential			4,000.00

6. Access Roads to Drill Sites

Contract D-8 Dozer with Operator 14 days @ 200.00		2,800.00	
Move in, Move out charge		400.00	
Supervision			
Salary	520.00		
W.C.& Ins.	49.40		
Payroll Taxes	28.60		
		598.00	
			3,798.00

7. Rehabilitation of Buildings for Storage of Diamond Drill Core and Equipment — 1,000.00

8. Diamond Drilling

Contract Drilling NX Core - sludge sample with core 2000 ft. @ 8.00			16,000.00

9. Care of Core and Sludge Samples

Supplies			
Sample dryer	200.00		
sample cans	100.00		
Core Boxes (Transp.)	100.00		
Core Boxes (Storage)	150.00		
Fuel for dryer	75.00		
Misc. Supplies	25.00		
		650.00	
Labor			
Salary	5,200.00		
W.C. & Ins.	494.00		
Payroll Taxes	286.00		
		5,980.00	
			6,630.00

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Estimated Cost - Step I - continued

10. Sample Preparation and Assaying

Sample Preparation			
400 @ 0.75		300.00	
Assays			
400 Core Mo. Cu.		3,600.00	
400 Sludge Mo. Cu.		3,600.00	
			7,500.00

11. Accounting Services

6 mo. @ 150.00			900.00

12. Vehicle Expense

Rental 6 mo. @ 200.00	1,200.00		
Operating Expense			
6 mo. @ 100.00	600.00		
			1,800.00

13. Exploration Staff Subsistence

Est. 350 Man Workings Days @ 5.00			1,750.00
		TOTAL	$55,935.00

Upon completion of Step I sufficient information will be available from the collected data to determine if additional exploration is warranted by diamond drilling and other methods that may be applicable.

Assuming that additional exploration is warranted after completion of Step I, the following is proposed as Exploration Step II, with modification being made to suit the result of previous exploratory investigation.

STEP II

For the purpose of estimating the cost of additional exploration, by diamond drilling to delineate an ore body indicated by Step I, it is assumed that 40 additional drill holes will be required for this work. Plate III shows the holes as open circles. Location of the drill sites will be determined from the condition encountered while drilling.

The cost of Step II is as follows:

Estimated Cost - Step II

1. Access Road to 40 Drill Sites			
Contract D-8 Dozer with Operator 90 days @ 200.00		18,000.00	
Supervision			
Salary	2,600.00		
W.C.& Ins.	247.00		
Payroll Taxes	142.00		
		2,990.00	
			20,990.00
2. Diamond Drilling (2 drill rigs)			
Contract Drilling NX Core Sludge Sample with Core 12,000 ft. @ $8.00			96,000.00
3. Care of Core and Sludge Samples			
Supplies			
Sample Dryer	200.00		
Sample Cans	200.00		
Core Boxes (Transp.)	200.00		
Core Boxes (Storage)	1,000.00		
Fuel For Dryers	600.00		
Misc. Supplies	200.00		
		2,400.00	
Core Building with Storage Racks		5,000.00	
Labor (6 men - 10 mo.)			
Salary	37,000.00		
W.C.& Ins.	3,515.00		
Payroll Taxes	2,035.00		
		42,550.00	
			49,950.00

Estimated Cost - Step II - continued

4. Sample Preparation and Assaying		
Sample Preparation		
2400 @ 0.75	1,800.00	
Assays		
2400 Core Mo., Cu.	20,000.00	
2400 Sludge Mo., Cu.	20,000.00	
		41,800.00
5. Accounting Services		
10 mo. @ 300.00		3,000.00
6. Supervision - 10 mo.		
Salary	8,700.00	
Workman's Comp. & Ins.	826.50	
Payroll Taxes	478.50	
		10,005.00
7. Vehicle Expense		
2 vehicles 10 mo. period @ 200.00/mo. each	4,000.00	
Operating Expense 100.00/mo. each.	2,000.00	
		6,000.00
8. Exploration Staff Subsistence		
Est. 1500 man-working days @ 5.00		7,500.00
9. Engineering and Geological Services		
Consisting of drafting and analysis of field work results		10,000.00
	TOTAL	$245,245.00

A study of all data collected in Step I and Step II will be made and if it is determined that an economic ore body has been located that needs additional drilling to bring the drill hole spacing down to 200 ft. in order to determine the available tonnage of millable ore the following is proposed as cost of the 3rd step of Exploration. It will be assumed that twenty (20) additional holes 300 ft. in depth will be required.

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Phoenix, Arizona - 85013

Estimated Cost - Step III

1. Access Road to Drill Sites			
Contract D-8 dozer with operator			
20 days @ 200.00		4,000.00	
Supervision			
Salary	525.00		
W.C.& Ins.	49.10		
Payroll Taxes	28.90		
		603.00	
			4,603.00
2. Diamond Drilling (2 rigs)			
Contract Drilling NX Core			
Sludge Sample with Core			
6,000 ft. @ 8.00			48,000.00
3. Care of Core & Sludge Samples			
Supplies			
Core Boxes (Storage)	500.00		
Fuel for Dryers	300.00		
Misc. Supplies	100.00		
		900.00	
Labor			
Salary	18,000.00		
W.C.& Ins.	1,710.00		
Payroll Taxes	990.00		
		20,700.00	
			21,600.00
4. Sample Preparation and Assaying			
Sample preparation - 1200 @ 0.75		900.00	
Assays			
1200 Core Mo. Cu.		10,000.00	
1200 Sludge Mo. Cu.		10,000.00	
			20,900.00
5. Accounting Services			
5 months @ 300.00			1,500.00
6. Supervision - 5 months			
Salary		5,200.00	
W.C.& Ins.		494.00	
Payroll Taxes		286.00	5,980.00

Western Equities, Inc.,
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Phoenix, Arizona

Estimated Cost - Step III - continued

7. Vehicle Expense		
2 vehicles - 5 mo. period @ 200.00/mo. each	2,000.00	
Operating Expense 100.00/mo. each	1,000.00	
		3,000.00
8. Exploration Staff Subsistence		
Est. 750 Man-working days @ $5.00		3,750.00
9. Engineering and Geological Services		10,000.00
TOTAL		119,333.00

For a final check for the verification of the results of the diamond drilling it is proposed to carry out Step IV which is as follows:

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Phoenix, Arizona

Estimated Cost - Step IV

1. Vertical Shaft (1½ compartment)		
200 ft. @ $200.00		40,000.00
2. Drifts		
200 ft. @ $40.00		8,000.00
3. Raises		
500 ft. @ $60.00		30,000.00
	TOTAL	78,000.00

WESTERN EQUITIES INC.
1629 GUARANTY BANK BLDG.
3550 NORTH CENTRAL AVE.
PHOENIX, ARIZONA 85013

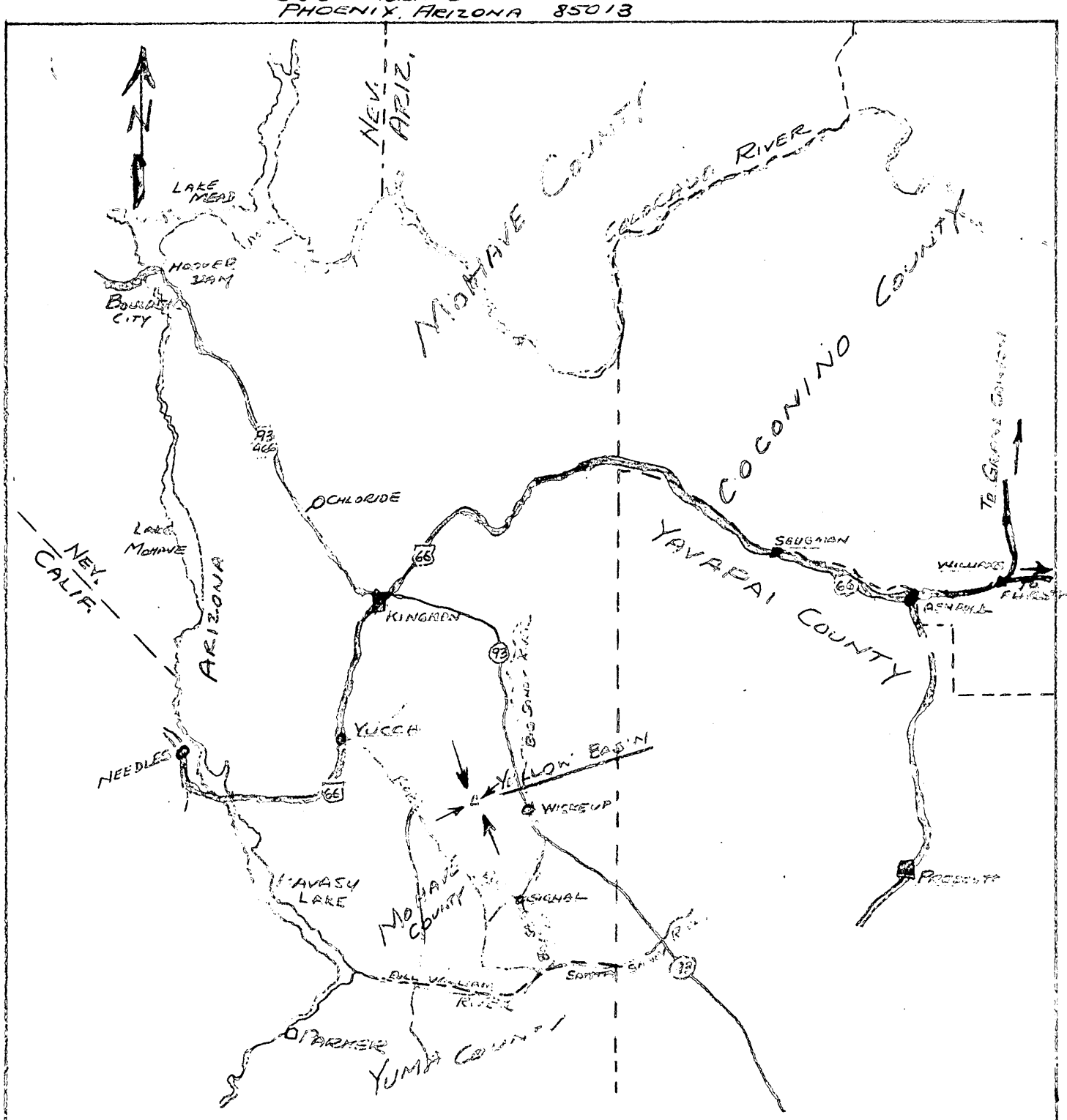


FIGURE 1. MAP OF NORTHWESTERN ARIZONA SHOWING LOCATION OF YELLOW BASIN.

10/19/64 M. L. PATE

FIGURE 2.

30 So. Main St.
P. O. Box 1889

Jacobs Assay Office

Registered Assayers

PHONE Main 2-0813

DUPLICATE

Certifieate No. 56774

Tucson, Arizona, Aug 25th 1964

Sample Submitted by Mr. Western Equities Inc

SAMPLE MARKED	GOLD Ozs. per ton ore	GOLD Value per ton ore *	SILVER Ozs. per ton ore	COPPER Per cent Wet Assay	LEAD Per cent Wet Assay	TOTAL Mo Per cent Wet Assay	OXIDE Mo Per cent Wet Assay
		$					
# 950 UNDERGROUND	HAMMEY CAMP		NOT SHOWN ON MAP			0.068	0.007
951 DITO	DITO	DITO	DITO			0.192	0.010
952 "	"	"	"			0.012	0.003
# 954 "	TRACE		0.1			0.162	0.002
955 UNDERGROUND	HAMMEY CAMP		NOT SHOWN ON MAP			0.255	0.034
956	TRACE		0.1	0.09		0.024	—
957						0.050	0.014
958	2.N	NOT YELLOW BASIN				0.168	0.029
959	3.1	001	0.35 NOT YELLOW	3.8 BASIN	2.8		
960	0.1	TRACE	NOT YELLOW	0.6 BASIN	TRACE		

WESTERN EQUITIES INC.
1629 GUARRANTY BANK BLDG.
3550 NORTH CENTRAL AVE
PHOENIX, ARIZONA 85013

* Gold Figured $35.00 per oz. Troy

Charges $ 80.50

Very respectfully,
Ben P. Jacobs

FIGURE 3.

30 So. Main St.
P. O. Box 1889

Jac[illegible]

Registered Assay[illegible]

Certificate No. 56811

Tucson, Ariz. Sept 25th 4

Sample Submitted by Mr. Western Equities Inc

[illegible]	[illegible]	Gold Concentration	Silver Concentration	Copper Concentration	X	TOTAL Mo	X
#1013				0.04		0.015	
14				0.03		0.024	
15				0.05		0.005	
16				0.03		0.011	
17				444		0.085	
18				28		0.067	
19				0.05		0.038	
20				0.13		0.047	
21				1.30		0.038	
22				0.09		0.005	
23				1.51		0.725	
24				0.03		0.020	
25				0.05		0.015	
26				0.09		0.007	
27						0.005	
28				0.03		0.006	
29				0.04		0.006	
30				0.03		0.005	
NOT YELLOW BASIN 31	0.01	0.35	2.0	2.12		1.850	
#961						0.305	
962						0.312	
963						0.867	

WESTERN EQUITIES INC.
1629 GUARRANTY BANK BLDG.
3550 NORTH CENTRAL AVE
PHOENIX ARIZONA 85013

Bldg. 20 - Denver Federal Center
Denver, Colo. 80225

January 4, 1963

Memorandum

To: Joel H. Van Sant, Chief, Mineral Resources Office

From: Hugh M. Connors, Acting Field Officer, Region III

Subject: Summary Report - GMK-4378
Bolton Robinette
Yellow Basin Property
Mohave County, Arizona

Some of the unpatented mining claims located by Bolton Robinette are in conflict with the D. & G. Mining Co. claims. The area in conflict is a part of Section 29.

The north end of the property is within a quartz diorite stock showing low grade primary disseminated molybdenum and copper mineralization. A few diamond drill holes drilled in a fence pattern will be recommended.

Original signed by

Hugh M. Connors

Commodities

6-803
(January 1952)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

SUMMARY REPORT OF MINERALS EXAMINATION

State Arizona County Mohave Mineral Products Copper - Molybdenum

Name of property or deposit Yellow Basin Property

Date examined 12-2-54 Engineer Hugh M. Cannon Date of this report 12-31-54

Reason for examination OME docket 6378

Engineer accompanied by M. L. Pate Address Box 93, Grand Canyon, Ariz.

Extent of property 12 patented and 41 unpatented mining claims

Owner Dalton Robinette Address ?

Leased or optioned to Western Equities, Inc. Address Box 93, Grand Canyon, Ariz.

Location of property (be specific) Sections 17, 18, 20, and 29, T 17 N, R 14 W
Cedar Mining District

Type of deposit and mineralogy (brief description) Primary disseminated molybdenum and copper mineralization within a quartz diorite stock. The patented claims at south end of property covered veins which are said to have contained chalcopyrite and molybdenite.

Known dimensions of the deposit Length 6,000' - ? Width 3,000' - ? Depth ?

Attitude of the deposit (strike, dip, etc.) There are three dominant structural trends, the most important of which strikes N 60° E.

Possible extensions; correlation of known showings Inspiration Consolidated Copper Company drilled five holes on the Leviathan vein and are said to have been disappointed with the thickness of the vein.

Mine workings (brief description or attach map or sketch) (indicate whether accessable) The patented claims covered veins which were mined through two shafts - now filled with water.

(over)

Mining and milling equipment on property None.

Past production (if any) None production but the Bureau of Mines has no record of it.

Present rate of production (if any) None.

Sampling (describe briefly, or attach sketch) Samples of the disseminated Mo and Cu material from the surface averaged .11% total Mo and .19% Cu.

Tentative Estimate of Reserves

(Subject to revision when assays are received or after engineering calculations)

Measurable ..... tons ..... Grade .....

Indicated ..... tons ..... Grade .....

Inferred ..... tons ..... Grade .....

Mining method (actual or suggested) .....

Milling or processing method (actual or suggested) .....

Processing tests suggested .....

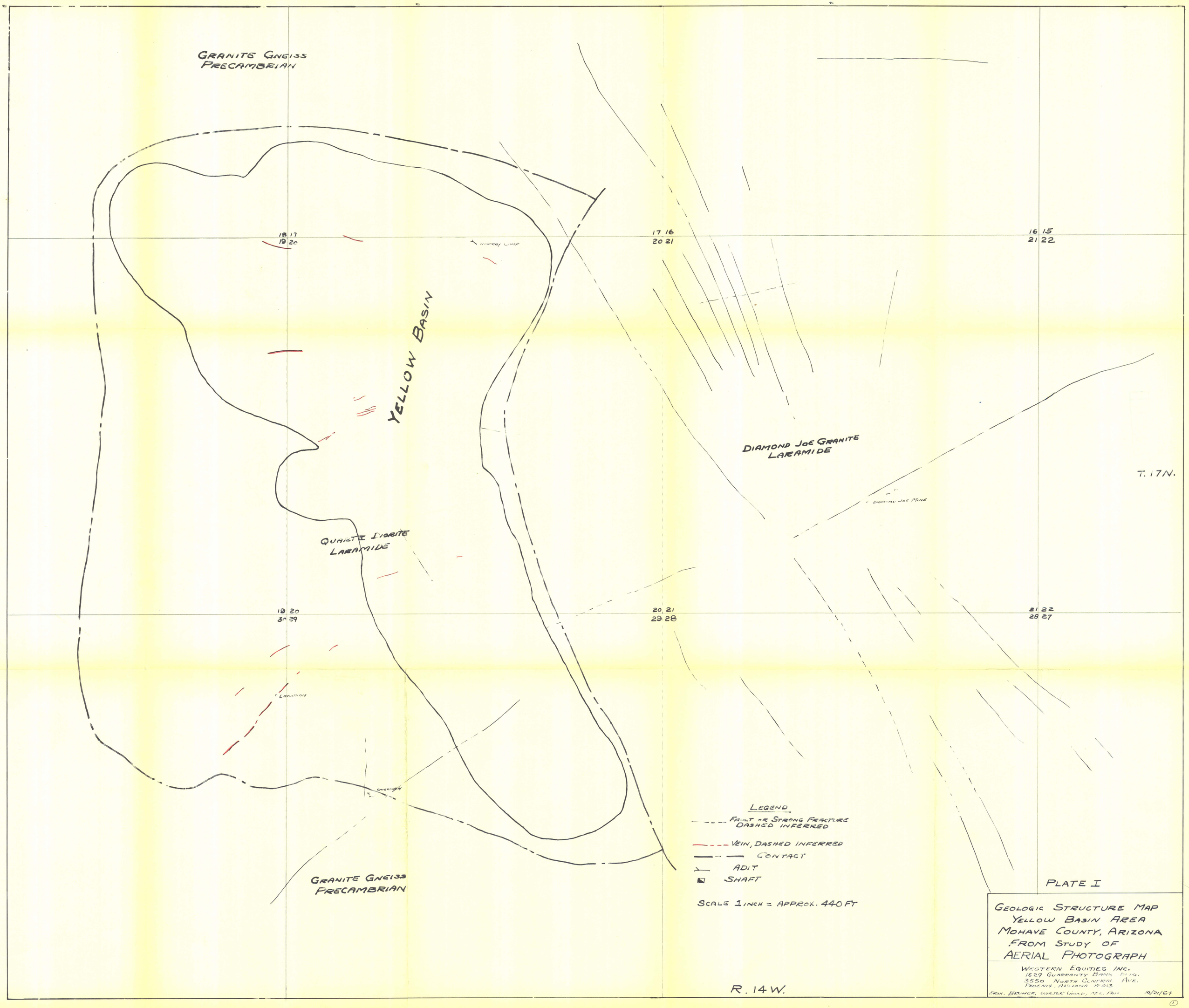
Tentative conclusion and decision A few diamond drill holes beginning at the north end of the property will be recommended.

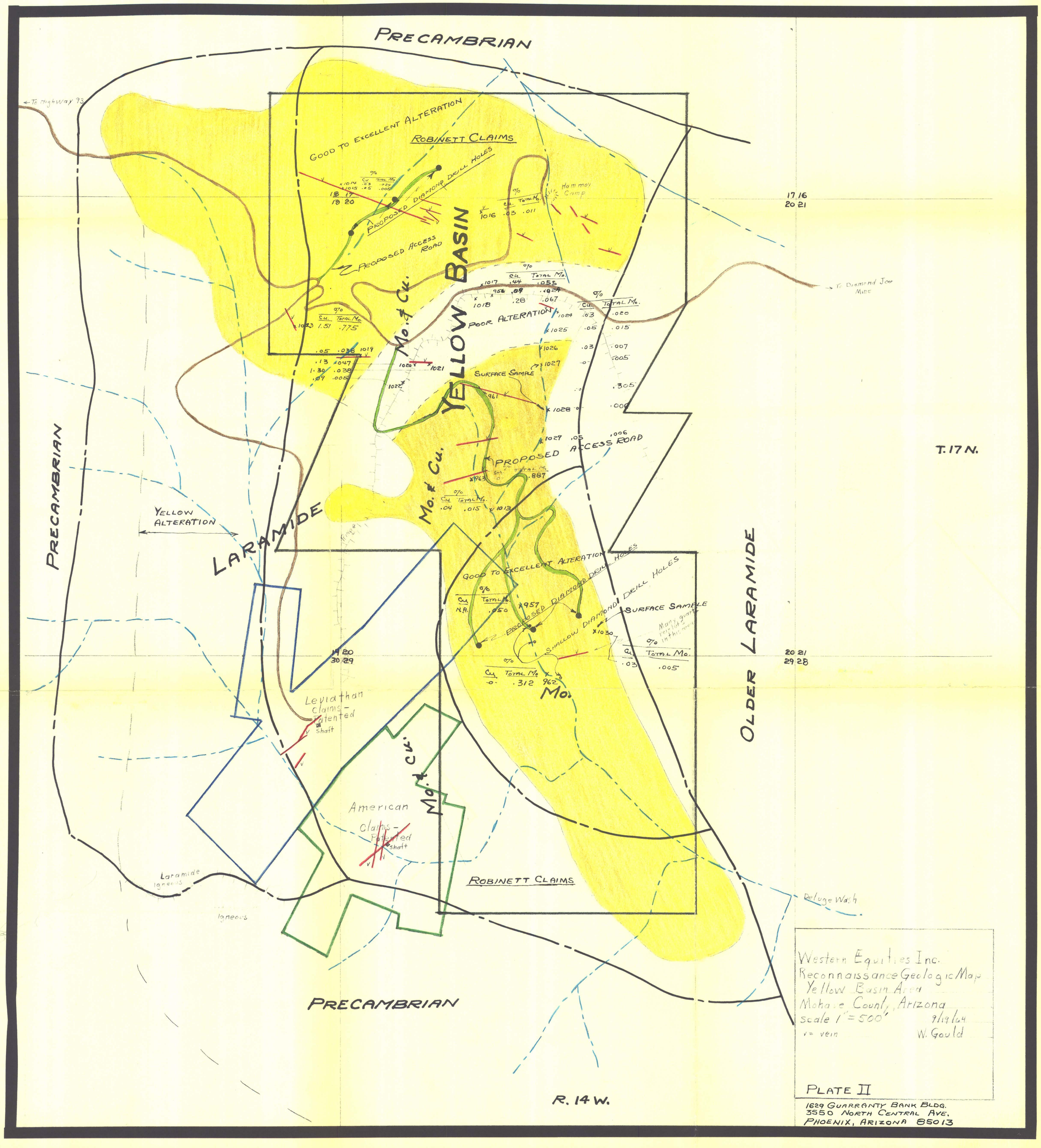
To be accompanied by brief letter giving examining engineer's general impression of the deposit, his impression of the owner, and any other confidential information he may care to submit. Refer to any known prior examinations and reports. May be executed in pencil. Should be mailed within 24 hours after examination is completed.

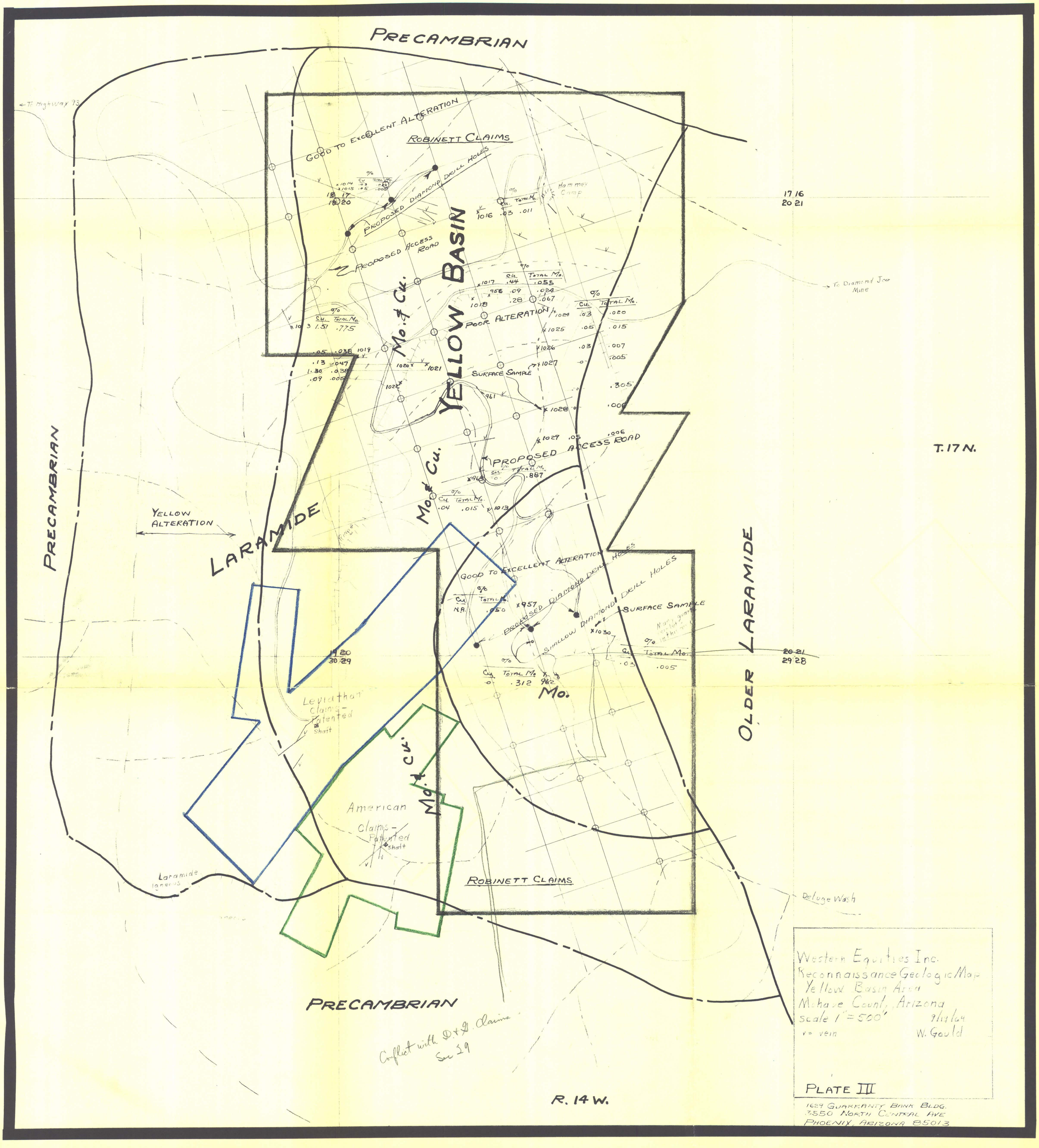
Send original and one copy to Washington Office.

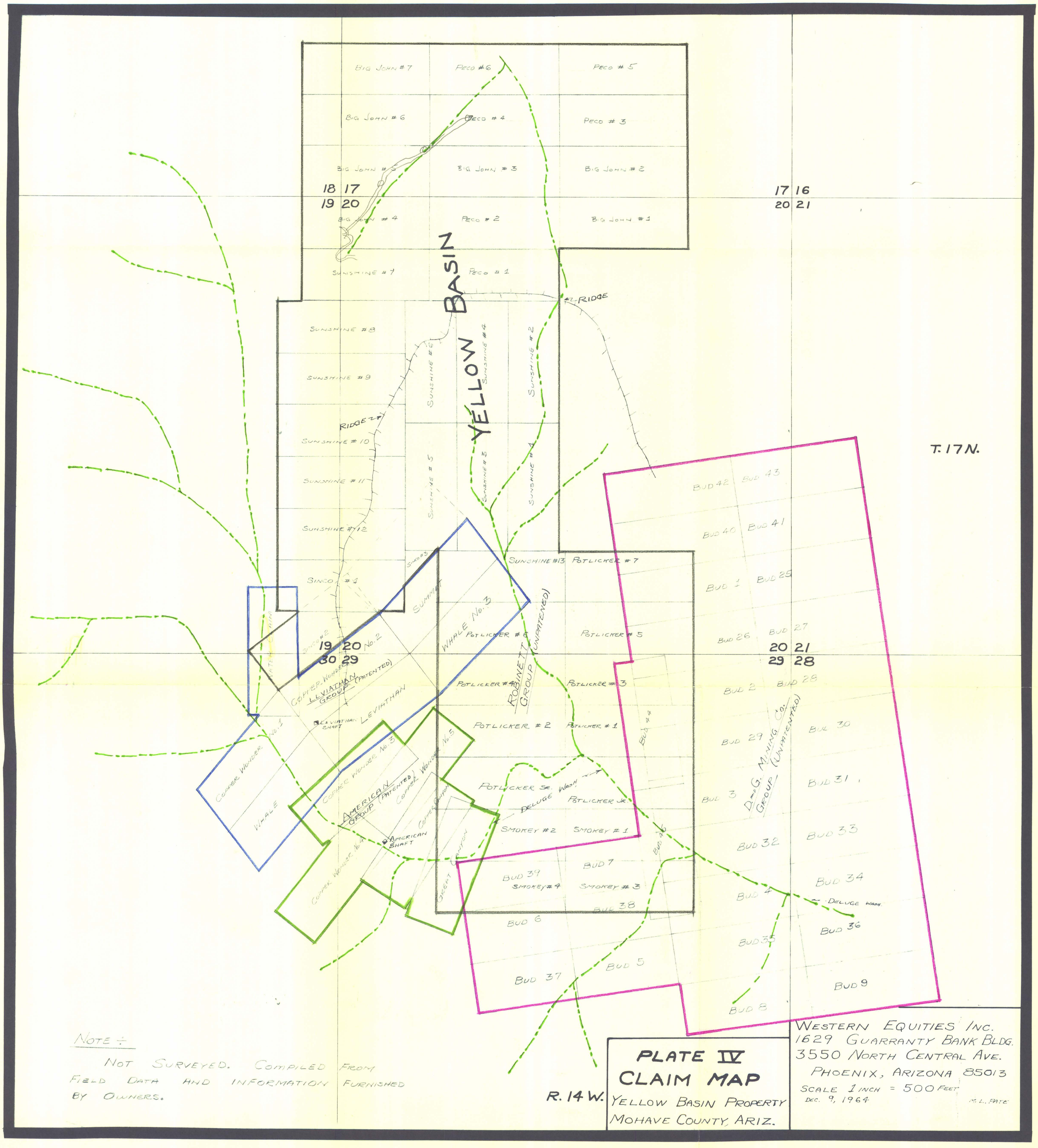
Interior--Duplicating Section, Washington, D. C.

76412


GRANITE GNEISS
PRECAMBRIAN
18 17
19 20
17 16
20 21
16 15
21 22
HAMMER CAMP
YELLOW BASIN
DIAMOND JOE GRANITE
LARAMIDE
T. 17N.
DIAMOND JOE MINE
QUARTZ DIORITE
LARAMIDE
19 20
30 29
20 21
29 28
21 22
28 27
LUCKSTONE
AMERICAN
GRANITE GNEISS
PRECAMBRIAN
LEGEND
FAULT OR STRONG FRACTURE DASHED INFERRED
VEIN, DASHED INFERRED
CONTACT
ADIT
SHAFT
SCALE 1 INCH = APPROX. 440 FT
R. 14 W.
PLATE I
GEOLOGIC STRUCTURE MAP
YELLOW BASIN AREA
MOHAVE COUNTY, ARIZONA
FROM STUDY OF
AERIAL PHOTOGRAPH
WESTERN EQUITIES INC.
1629 GUARANTY BANK BLDG.
3550 NORTH CENTRAL AVE.
PHOENIX, ARIZONA 85013
ERIK BRUNER, WALTER GOULD, M.L. PAIT
10/21/64
1


PRECAMBRIAN
← To Highway 93
GOOD TO EXCELLENT ALTERATION
ROBINETT CLAIMS
PROPOSED DIAMOND DRILL HOLES
PROPOSED ACCESS ROAD
Hammey Camp
YELLOW BASIN
Mo. & Cu.
POOR ALTERATION
SURFACE SAMPLE
PROPOSED ACCESS ROAD
T. 17 N.
PRECAMBRIAN
YELLOW ALTERATION
LARAMIDE
GOOD TO EXCELLENT ALTERATION
PROPOSED DIAMOND DRILL HOLES
SHALLOW DIAMOND DRILL HOLES
SURFACE SAMPLE
Many quartz veins in this area
OLDER LARAMIDE
Leviathan Claims - Patented
Shaft
American Claims - Patented
Shaft
Mo. & Cu.
ROBINETT CLAIMS
Laramide Igneous
Igneous
Deluge Wash
PRECAMBRIAN
R. 14 W.
Western Equities Inc.
Reconnaissance Geologic Map
Yellow Basin Area
Mohave County, Arizona
scale 1" = 500'
9/19/64
v = vein
W. Gould
PLATE II
1629 GUARANTY BANK BLDG.
3550 NORTH CENTRAL AVE.
PHOENIX, ARIZONA 85013


PRECAMBRIAN
← To Highway 93
GOOD TO EXCELLENT ALTERATION
ROBINETT CLAIMS
PROPOSED DIAMOND DRILL HOLES
PROPOSED ACCESS ROAD
Hammer Camp
YELLOW BASIN
Mo. & Cu.
POOR ALTERATION
SURFACE SAMPLE
PROPOSED ACCESS ROAD
17 16
20 21
To Diamond Joe Mine
T. 17 N.
PRECAMBRIAN
YELLOW ALTERATION
LARAMIDE
GOOD TO EXCELLENT ALTERATION
PROPOSED DIAMOND DRILL HOLES
SHALLOW DIAMOND DRILL HOLES
SURFACE SAMPLE
Mo.
OLDER LARAMIDE
20 21
29 28
19 20
30 29
Leviathan Claims - Patented
Shaft
Mo. & Cu.
American Claims - Patented
Shaft
Laramide Igneous
ROBINETT CLAIMS
Deluge Wash
PRECAMBRIAN
Conflict with D & G. Claims Sec 29
R. 14 W.
Western Equities Inc.
Reconnaissance Geologic Map
Yellow Basin Area
Mohave County, Arizona
scale 1" = 500'
9/19/64
v = vein
W. Gould
PLATE III
1629 GUARANTY BANK BLDG.
3550 NORTH CENTRAL AVE
PHOENIX, ARIZONA 85013



NOTE :-

NOT SURVEYED. COMPILED FROM FIELD DATA AND INFORMATION FURNISHED BY OWNERS.

PLATE IV
CLAIM MAP
YELLOW BASIN PROPERTY
MOHAVE COUNTY, ARIZ.

WESTERN EQUITIES INC.
1629 GUARRANTY BANK BLDG.
3550 NORTH CENTRAL AVE.
PHOENIX, ARIZONA 85013

SCALE 1 INCH = 500 FEET
DEC. 9, 1964

M. L. PATE