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To:	Mr. Lyon	Date	9/24/51
To:	REPORTS AND RECORDS	Date	SEP 26 1951
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UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION
WASHINGTON 25, D. C.

Memorandum

SEP 26 1951 A.E.S.

To: Administrative Management Division

From: Director, Supply Division

Subject: Application for exploration aid of Mr. Henry V. Snell, 4125 South Figueroa Street, Los Angeles 37, California, DMA-514X, Commodity-Copper

Denial of this application has been recommended by Field Team, Region IV for the following reasons:

1. The general meager mineralization as shown by the very small amount of favorable appearing gossan thus indicating the lack of primary acid forming sulfides.

2. The presence of calcite in the vein which would act as a precipitant and prevent any large scale migration of the copper.

3. The high copper content (5%) of the oxide ores formerly mined shows that conditions were not favorable, locally at least, for the removal of the copper.

4. The project presented for exploratory drilling would be "blind" both as to depth and position along the stretch of the vein. The cost of such drilling before obtaining decisive results could well exceed the $20,000 anticipated.

5. There has been little or no recorded production of oxidized ore from the Saddle Back vein, though it has been adequately prospected at the surface. No known minable ore reserves exist on the property.

A letter has been prepared to the applicant informing him of this denial.

Transmitted herewith for your disposal is the entire file consisting of the following:

2 Sets of one form and answer sheet each of MF-100 and 103
1 Field Team Report on Henry V. Snell's King Hecla Group with cover letter

310

FILE COPY
SURNAME:

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION
WASHINGTON 25, D. C.

Waugh
Gowen
Maclaren
Johnson

G. E. C.

SEP 2 6 1951

Mr. Henry V. Snell
4125 South Figueroa Street
Los Angeles 37, California

Re: Docket No. DMA-514X

Dear Mr. Snell:

Your application for exploration aid has been received by the Defense Minerals Administration and we are sorry to inform you that it must be denied.

On the basis of the material submitted with your application and the material available to the Government it is felt that the geological possibilities of the property do not warrant Government participation in further exploration at this time.

We appreciate your interest in the Defense Program and thank you for submitting your property for consideration.

Very truly yours,

S.F.
9-26

Tom Lyon, Director
Supply Division

HVWaugh:rw
9-24-51

Copy to: Administrator's Reading File
Executive Officer, DMA Field Team IV
Mr. Gowen
Mr. C. H. Johnson
Mr. D. MacLaren
Files - DMA Docket

310 FILE COPY
SURNAME:

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION
WASHINGTON 25, D. C.

Borough
Johnson

A. E. C.

SEP 26 1951

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A letter has been prepared to the applicant informing him of this denial.

Transmitted herewith for your disposal is the entire file consisting of the following:

2 Sets of one form and answer sheet each of MF-100 and 103
1 Field Team Report on Henry V. Snell's King Neela Group with cover letter

1 Report on King Hecla Group - Location & Topography
1 Report on King Hecla property by H. V. Smeed with maps attached
1 Geologic map of the King Hecla Copper Co., June 20, 1949
1 Sheet showing section of the King Hecla Copper Co., June 20, 1951
1 Form NSMB 146
7 Carbon letters to Mr. Henry V. Snell from:
    Tom Lyon, February 7, 1951
    Tom Lyon, March 21, 1951
    James Boyd, April 4, 1951
    J. B. Gowen, April 19, 1951
    J. B. Gowen, April 19, 1951
    Tom Lyon, May 16, 1951 (2 copies)
    L. F. Strobel, June 15, 1951
4 Carbon letters to Mr. J. H. East, Jr. from
    Tom Lyon, May 16, 1951 (2 copies)
    J. B. Gowen, June 4, 1951 (3 copies) with 3 carbon letters attached for H. V. Snell to Mr. Gowen, April 25, 1951
    Tom Lyon, June 5, 1951 (3 copies)
    Tom Lyon, June 7, 1951
1 Original and carbon copy of letter to Dr. James Boyd from:
    Henry V. Snell, January 18, 1951
3 Carbon letters from H. V. Snell to:
    Tom Lyon, March 17, 1951
    Tom Lyon, March 27, 1951
    Defense Minerals Administration, May 16, 1951 (3 copies)

Tom Lyon

Tom Lyon, Director
Supply Division

not stripped
R + R

Attachment

RWaugh:rw
9-24-51

Copy to: Administrator's Reading File
Executive Officer, DMA Field Team IV
Mr. J. B. Gowen
Mr. O. M. Johnson
Mr. MacLaren
Files - DMA Docket

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION
WASHINGTON 25, D. C.

224 New Customhouse
Denver 2, Colorado

July 17, 1951

Memorandum

To: Landon Strobel, Executive Secretary, Defense Minerals Administration

From: DMA Field Team, Region IV

Subject: DMA Docket 514, Final Report, Henry V. Snell's King Hecla Group, Gila County, Arizona

Attached is the report on Docket DMA 514, H. V. Snell's King Hecla Group.

We agree with the field engineers and recommend that the application be denied.

J. H. East, Jr.

A. H. Koschmann

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
JUL 20 1951
Executive Secretary

Attachment

QEC

[illegible] Ray Gustenhoven
Denver 2, Colorado

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
JUL 20 1951
Executive Secretary

July 17, 1951

Memorandum

To: Landon Shrubel, Executive Secretary, Defense Minerals Administration

From: DMA Field Team, Region IV

Subject: DMA Docket 514, Final Report, Henry V. Small's King Mania Group, Gila County, Arizona

Attached is the report on Docket DMA 514, H. V. Small's King Mania Group.

We agree with the field engineers and recommend that the application be denied.

J. H. Earl, Jr.

A. H. Koschmann

Attachment

M
cc: Koschmann
DMA

FOR OFFICIAL USE ONLY

Mining Division
Region IV

July 13, 1951

Memorandum

To: J. H. Bunt, Jr., U. S. Bureau of Mines

A. E. Weissman, U. S. Geological Survey

From: Chief, Mining Division, Region IV

Subject: RFC Project 514, Final Report, Henry V. Snell's King Mania Group, Gila County, Arizona

The original application by Henry V. Snell, was for a $200,000 loan for the development and exploration of the King Mania group of claims. He knew valuable reserves exist on the property and at the suggestion of the Coordinating Committee of Federal Minerals Administration, the original application was changed, with the concurrence of the applicant, to a $20,000 exploration loan.

After a detailed consideration by the U. S. Geological Survey and the U. S. Bureau of Mines, the term recommends denial of the proposed project.

We concur with their conclusions that the amount and character of the observed mineralization are inadequate to justify the possibility of any underlying subsidy development and this application should be denied.

F. T. Allman

MINING DIVISION
REGION IV

July 5, 1951

Memorandum

To : Paul T. Allsman, Denver, Colorado

From : Chief, Arizona-New Mexico Br., Mining Div., Region IV

Subject : Final Report, DMA Docket 514, Henry V. Snell's King Mecka Group, Gila County, Ariz.

Enclosed are original and 7 copies of the section on Summary, Conclusions and Recommendations by L. L. Farnham of the Bureau of Mines and C. S. Bromfield of the Geological Survey, and the Engineering report by Farnham for the above docket. Nels Peterson of the Geological Survey visited this property with Farnham and Bromfield, and I believe, concurs with their findings.

This report has my approval.

The brochure is enclosed.

Walter R. Storms

CC P. T. Allsman (7)
C. A. Anderson
DMA 514
MF

WRStorms:frj

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION
WASHINGTON 25, D. C.

200 New Customhouse
Denver 2, Colorado

July 11, 1951

Memorandum

To: DMA Field Team, Region IV

From: A. H. Koschmann

Subject: Report on DMA 514, King Hecla Group (H. V. Snell), Gila County, Arizona

Enclosed are the original and 7 copies of the geologic section of the above report by C. S. Bromfield.

A. H. Koschmann
A. H. Koschmann
Supervising Geologist
Colorado-Wyoming

Enclosures

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
P.O.Box 4126, University Station
Tucson, Arizona

July 6, 1951

Memorandum

To: Mr. A. H. Koschmann, Denver, Colorado

From: Mr. A. F. Shride, Tucson, Arizona

Subject: Report on DMA 514, King Hecla Group (H. V. Snell), Gila County, Arizona

Enclosed are 1 original and 7 copies of the geologic section of the above report by C. S. Bromfield of the Geological Survey. The authors recommend that an exploration loan be denied because of the lack of evidence of mineralization in the subject area. I approve the geologic report and the conclusions and recommendations.

Please return one copy to W. E. Storms and one copy to us.

A. F. Shride
Acting District Supervisor
Arizona-New Mexico

Enclosures 8

UNITED STATES
DEPARTMENT OF THE INTERIOR
OSCAR L. CHAPMAN, SECRETARY

DEFENSE MINERALS ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION IV

DMA-514, Henry V. Spell's King Hecla Group

Gila County, Arizona

L. L. Farnham, Mining Engineer
U. S. Bureau of Mines

C. S. Bromfield, Geologist
U. S. Geological Survey

July 1951

SUMMARY, CONCLUSIONS AND RECOMMENDATIONS

By L. L. Farnham[1] and C. S. Bromfield[2]

Early in 1951 Henry V. Snell of 4125 South Figuero St., Los Angeles 37, Calif., made an application for a Government loan of $200,000 under the Defense Production Act of 1950, to be used in the development and exploitation of the King Hecla Group of mining claims. At the suggestion of the Coordinating Committee of The Defense Minerals Administration, this original application was changed to a $20,000 exploration loan. The applicant proposed to use the loan in the search for an enriched secondary sulfide zone, thought to possibly underlie the outcrop of a vein traversing the property.

The 17 unpatented mining claims comprising the King Hecla Group are situated some 5.5 miles northeast of Globe, Gila County, Arizona. It was presumed by the applicant that the northeasterly trending fault fissures, with which the noted copper deposits of the Globe area were associated, would, if they continued, pass through his property. The type of mineralization, however, on the King Hecla Group has little if any similarity to that of the Old Dominion and neighboring mines.

Seven or more veins of various sizes and attitudes outcrop upon the King Hecla claims. The principal one, upon which the applicant proposed the exploration, is a northeasterly trending fault

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1/ Mining engineer, U. S. Bureau of Mines
2/ Geologist, U. S. Geological Survey

fissure cutting Pre-Cambrian and Cambrian sediments, and dipping 35° southeasterly. The fissure filling is principally brecciated wall rock cemented by oxides of manganese and iron with calcite and minor amounts of quartz. The length and average width of the mineralization within the vein was not apparent. The dumps from the old exploratory openings on the fissure were very poorly mineralized. The great bulk of the material was altered wall rock containing a few random pieces of favorable appearing gossan.

No evidence of well defined or persistent ore shoots were apparent in any of the old superficial workings. The small past production of essentially silver-lead ores came from small scattered bunches distributed irregularly within the veins.

No known mineable ore reserves exist upon the property.

The applicant proposed to explore the main vein by diamond drilling in a search for enriched ore. He estimated that a total of 3,000 feet of drilling would suffice, costing $20,000. The number of holes contemplated was not given, nor were their location or depth.

The former operations on the property have shown that the small erratic ore bodies found in the past are not profitable. Any future value that the claims might have would depend upon finding larger and more persistent ore shoots of the kind formerly mined or, as the applicant hopes, a deeper secondarily enriched zone.

It is the opinion of the writers that both of these possibilities seem remote. The search for the superficially enriched ores within the oxidized zone would be "blind". The amount and character of the observed mineralization in the vein appears inadequate to justify the possibility of the existence of any significant underlying sulfide enrichment. In any event its position along the strike of the vein and its depth are both unknown, consequently the search might prove much more costly than anticipated.

Therefore, it is recommended that the applicant's request for a loan be denied.

Geology

KING HECLA GROUP PROJECT
GILA COUNTY, ARIZONA

Geology

By Calvin S. Bromfield
Geologist, U. S. Geological Survey

KING HECLA GROUP PROJECT
GILA COUNTY, ARIZONA

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Fig. 2 Geology of the King Hecla Claims (See Engineering Report)

GENERAL GEOLOGY

The King Hecla claims are in the Globe district, Gila County, Arizona. The rock formations within the district include a series of Precambrian and Paleozoic quartzites, limestones, and shales lying on a basement complex of Pinal schist. These rocks are intruded by dikes, sills, and irregular masses of diabase and by various granitic rocks. Remnants of thick dacite flows of early Tertiary age cap many hills. Gila conglomerate of probable Pliocene age covers much of the intermontane areas.

The rocks near Globe are cut by a group of northeasterly faults of pre-dacite age with which the ore deposits are associated. Post-ore faults of northwesterly trend cut the northeasterly faults and displace associated ore bodies.

The greatest production in the district has come from one member of the northeasterly trending fissure system known as the Old Dominion vein. Along this vein there were several productive properties.

The King Hecla group of claims lies about 5 miles northeast of Globe. The claims are approximately two miles northeast of the most northeasterly producing property on the Old Dominion vein. The applicant infers the main or Saddle Back vein to be an extension of the Old Dominion vein. The lack of exposures and an intervening valley deposit of post-ore Gila conglomerate prevent any proof that it is the same vein. The main vein or Saddle Back vein occupies a northeasterly trending fault.

The rocks in the area of the claims are part of the Precambrian Apache group and include from oldest to youngest the

Pioneer shale, Barnes conglomerate, Dripping Spring quartzite, and Mescal limestone. Unconformably overlying the Mescal limestone is the Cambrian Troy quartzite.

Several northeasterly faults and veins cross the claims. The largest of these is the Saddle Back fault (fig. 2) which has a throw of approximately 300 feet. A northwesterly fault (fig. 2) with approximately 400 feet of throw cuts the northeasterly faults.

ORE DEPOSITS

The applicant has amended his original request for a $200,000 development loan to a request for $20,000 to carry out an exploration program. With this money the applicant wishes to diamond drill the Saddle Back vein to find a postulated secondary zone of copper enrichment.

Northeast of the road three small adits have been driven into the hillside on the Saddle Back vein. This work is over thirty years old, and, as a result, is caved and inaccessible. The adit nearest the road was the only place where the vein could be observed by the examining team. Here the vein was about 5 feet wide and consisted of a barren breccia of quartzite fragments and comminuted wall rock. Material on the dumps was largely of barren wall rock. Manganese oxides (probably pyrolusite) were quite common as coating. Malachite stains were observed, but were rather rare. There were a few pieces of material that might properly be classed as a gossan. These consisted of a dull red mass of hematite and specularite containing rare malachite stains or seams and probably some copper oxide. Some galena bonwork was observed in one specimen.

The vein does not outcrop southwest of the road but two adits were driven here in an attempt to cut the vein. The lower adit was entirely in the footwall and failed to find the vein. The upper adit cut a vein trending in a direction parallel to the Saddle Back vein, but only the footwall was seen and it could not be determined whether this was the Saddle Back fault. The fault was filled with barren breccia.

CONCLUSIONS

The vein could not be observed sufficiently owing to the inaccessibility of the workings, but there are several lines of reasoning that mitigate against the possibility of the Saddle Back vein's developing any important copper production. First, a comparison with other producers in the Globe district, shows that whereas an important part of the early production of these mines came from the oxidized ores there has been little or no recorded production of oxidized ore from the Saddle Back vein, though it has been adequately prospected at the surface. According to a statement by H. V. Snell, small parallel veins have produced $50,000 to $70,000 in oxidized lead-silver-copper ore. This is stated to have been "pockety" in nature.

Second, there is no evidence for assuming the presence of any considerable amount of copper in the primary sulphide. Absence of any significant amount of gossan in the outcrop of the Saddle Back vein would seem to signify a lack of pyrite in the primary ore which, with the calcite of the gangue, make conditions unfavorable to extensive migration of copper from the outcrop.

Third, the intensity of mineralization diminishes to the northeast along the productive veins of the Globe district. The prominence of silver and lead as compared with copper in the veins of the King Hecla group suggests either a mineralization unrelated to the productive copper veins of the Globe district, or a zoning away from the center of mineralization.

The comparisons with the productive zone of the Globe district are unfavorable, but regardless of their validity the generally unmineralized character of the vein itself does not allow the writers to recommend this as a sound project having a reasonable chance of making a significant discovery of metals.

HENRY V. SNELL'S KING HECLA GROUP
GILA COUNTY, ARIZONA
EMA Docket 514

Engineering Report

By L. L. Farnham
Mining Engineer
U. S. Bureau of Mines

Engineering

HENRY V. SNELL'S KING HECLA GROUP
GILA COUNTY, ARIZONA
(RMA-314)

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INTRODUCTION

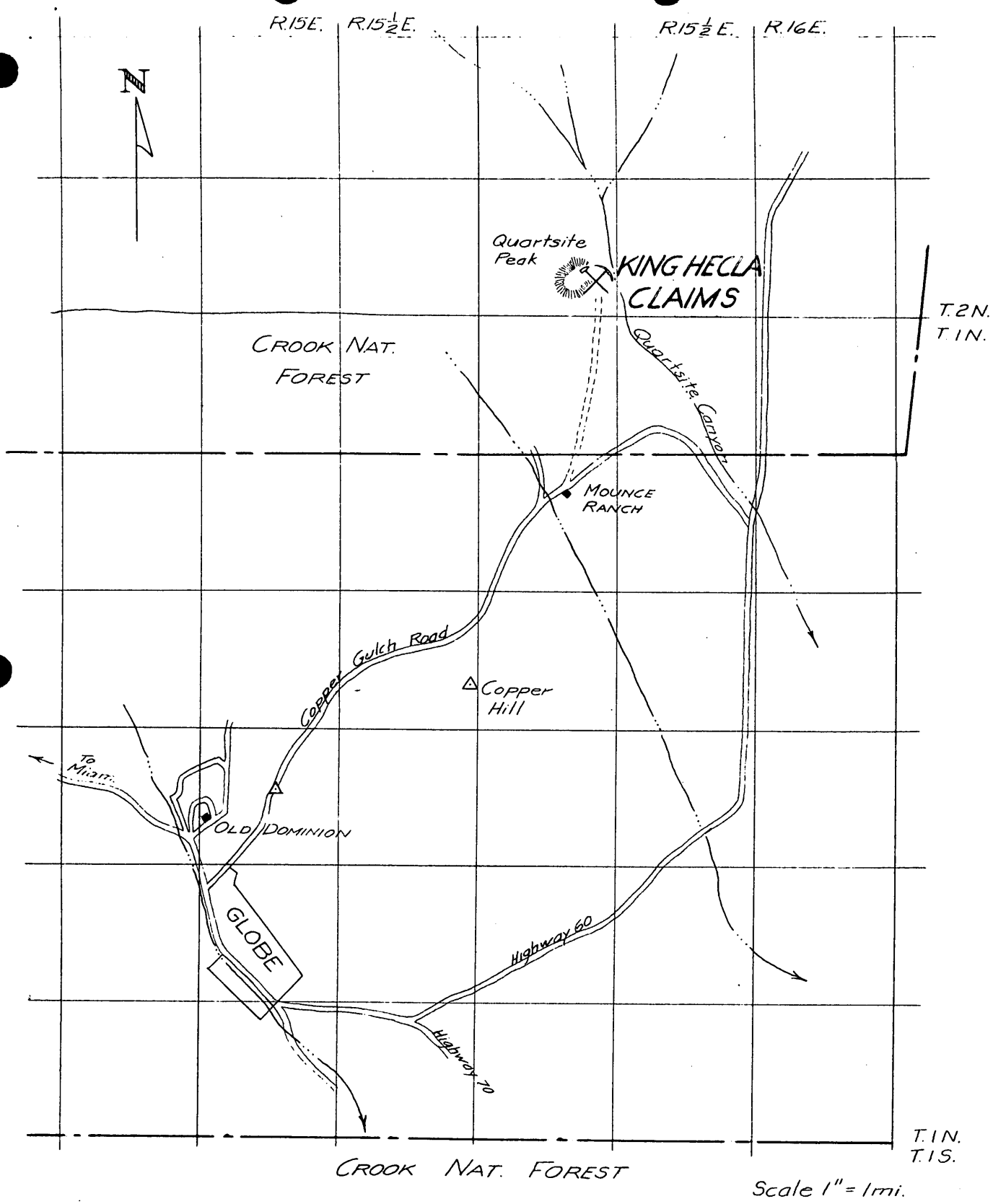
This report covers the results of the investigation of the King Hecla Group of mining claims made in connection with the loan application of Henry V. Snell, 4125 South Figueroa St., Los Angeles 37, Calif., to the Defense Minerals Administration. The application, as originally submitted, requested a $200,000 operating loan. This later was changed to a $20,000 exploration project. The money was to be used in the search for a possible zone of secondary sulfide enrichment which the applicant thought might underlie the outcrop of a vein traversing the King Hecla property.

ACKNOWLEDGMENTS

Acknowledgment is hereby made to Henry V. Snell, owner of the property, and Nels P. Petersen of the Geological Survey for the courtesies and help extended the field team during the examination of the property.

LOCATION AND PHYSICAL FEATURES

The King Hecla Group is situated about 5.5 airline miles northeast of Globe, Gila County, Arizona. The property is reached from Globe via the Copper Gulch road to the Mounce ranch. From there the road runs almost due north for 1.5 miles and ends at the mine. This part of the road is in poor condition with the last mile impassable. (Fig. 1)



DMA 514

Fig. 1. Location map, King Hecla Project, Gila Co., Arizona

The claims are in a moderately rugged area with rather precipitous canyon walls on the east and north slopes. Vegetation is sparse. The climate is similar to that prevailing in the arid desert regions of the Southwest.

HISTORY AND PRODUCTION

Little is known of the history or production of the King Hecla. A report accompanying the applications states that the claims were located about 35 years ago. HenryV. Snell, the applicant, estimates that the total production has amounted to between $50,000 and $75,000. This production camefrom the shallow workings on several different veins. About 54 tons, mined by the applicant 30 years ago, is said to have contained 37.4 ounces of silver per ton, 11.6 percent lead, and 5.1 percent copper. This would indicate that the chief value of King Hecla ore was silver-lead.

OWNERSHIP AND EXTENT

The King Hecla Group consists of 17 unpatented mining claims. The applicant has purchased the group for $25,000 but still owes a balance of $5,000.

DESCRIPTION OF THE DEPOSIT

There are seven or more veins of various lengths and widths exposed on the property. The strikes of the veins range from N.30° E. to N. 80° E., with dips from 50° to 80°. (Fig. 2). Vein widths vary from 3 to perhaps as much as 20 feet. All the fissures cutCambrian and Pre-Cambrian sediments which dip moderately to the southwest.

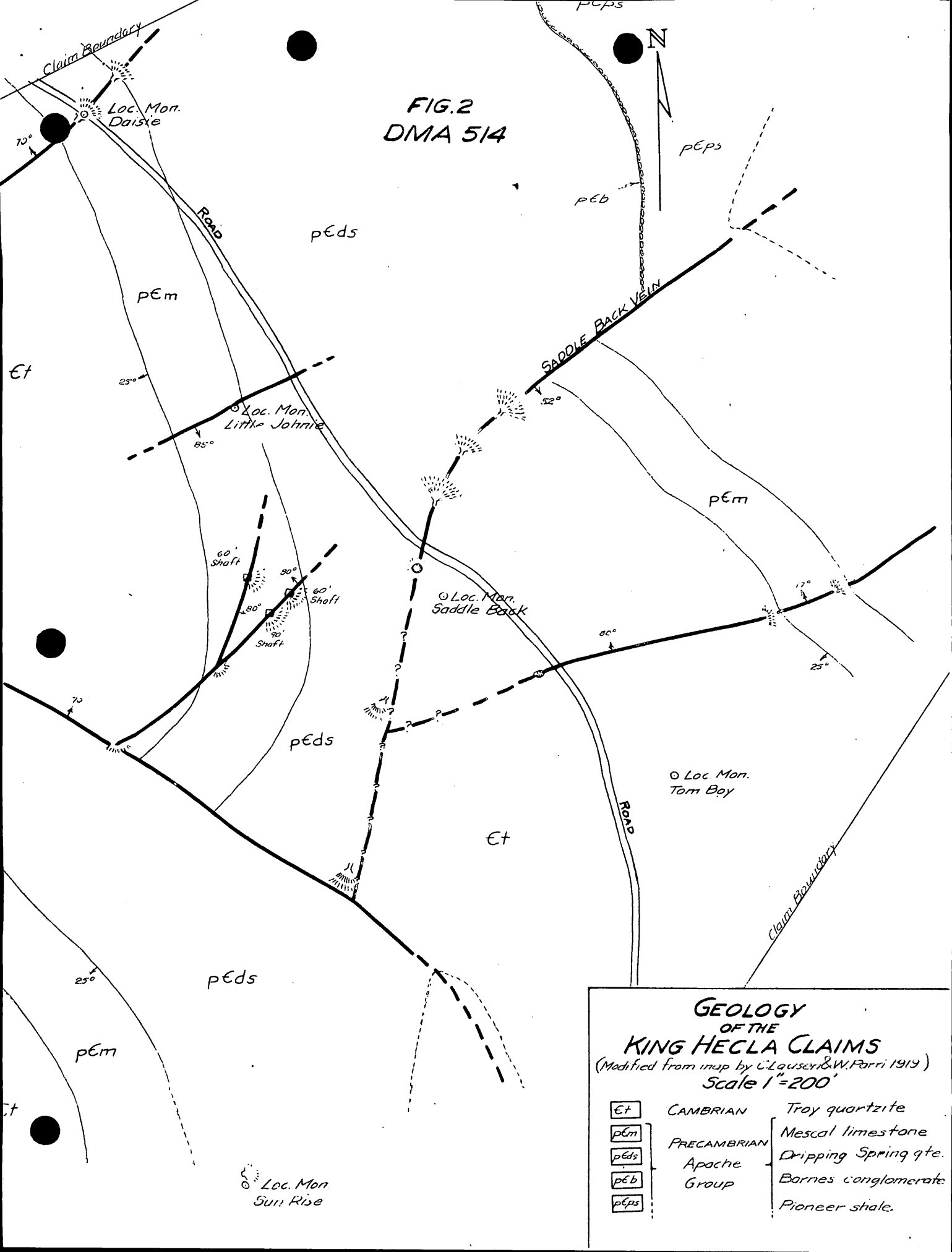


FIG. 2
DMA 514
N
Claim Boundary
Loc. Mon. Daisie
70°
Road
pЄds
pЄm
Єt
25°
Loc. Mon. Little Johnie
85°
pЄps
pЄb
Saddle Back Vein
52°
pЄm
60' Shaft
90°
60' Shaft
80°
90' Shaft
Loc. Mon. Saddle Back
80°
17°
25°
70
pЄds
Loc. Mon. Tom Boy
Road
Єt
Claim Boundary
25°
pЄds
pЄm
Loc. Mon. Sun Rise
GEOLOGY OF THE KING HECLA CLAIMS
(Modified from map by C. Lausen & W. Parri 1919)
Scale 1" = 200'
Єt CAMBRIAN Troy quartzite
pЄm Mescal limestone
pЄds Dripping Spring qte.
pЄb Barnes conglomerate
pЄps Pioneer shale.
PRECAMBRIAN Apache Group

The principal vein of the system, known as the Saddle Back, is a fault fissure trending about N. 30° E. and dipping 55° Southeasterly. It is said to have a known length of 1,300 feet. This is open to question as much of the surface is covered with detritial material. Three adits, driven on this vein, are reported to have disclosed vein widths of 20 feet. Unfortunately the portals of all these adits are now tightly caved so that the character of the vein filling could only be judged from the dumps resulting from this work. In an open cut above the adits the mineralized section of the fissure was about 5 feet wide. The fissure filling of all the veins is principally brecciated wall rock cemented by varying amounts of oxides of manganese and iron, with calcite and minor amounts of quartz. The dumps, representing the vein material broken in the adit drifts, were very poorly mineralized. The great bulk of all the dumps was altered wall rock containing only very minor amounts of favorable-appearing gossan. Manganese and iron oxides, showing some copper and oxide lead minerals, were the principal constituents of this gossan.

The old superficial workings on the property showed no indications of the presence of well defined or persistent ore shoots. The small past production of essentially silver-lead evidently came from small isolated bunches of ore distributed irregularly within the veins. The value of the ores mined probably did not repay the cost of the work that was necessary to find them.

It is unfortunate that so much of the old underground openings were found inaccessible. Had they been open they might have disclosed different or more favorable conditions than those that were observed. However, it seems improbable that any additional information that they might have furnished would have materially changed the main conclusions of this report.

ORE RESERVES

There are no known ore reserves exposed on the King Hecla property at this time.

EXPLORATION AND DEVELOPMENT

The early day search for high-grade silver ore resulted in considerable prospecting and shallow exploration on the various veins. Three shafts reaching depths of from 60 to 90 feet, with rather extensive drifting, served to explore the small Saddle Back vein and its northern branch. This work is now inaccessible. Openings on the main Saddle Back vein consisted of four adits of unknown length driven on the fissure from the steep eastern hillside. All of this work was caved and inaccessible with the exception of the westerly-most shaft and its connecting adit. Here the vein had an exposed width of 6 feet with the manganese-iron mineralization following the footwall. Another adit, consisting of some 350 feet of work, driven from the base of the westernly slope, failed to find the main vein. It appeared that this work was improperly located and did not necessarily disprove the presence of the vein in this area.

No buildings or other equipment are left upon the property. The nearest source of water is the Mounce ranch, about 1.5 miles south of the claims.

PROJECT PROPOSALS

The applicant proposed to search for an enriched secondary sulfide zone thought to possibly underlie the outcrop of the Saddle Back vein. It was suggested that diamond drilling be employed for this exploration. He estimated that 3,000 feet of drilling would suffice, costing about $20,000. No definite proposal was made as to the number of holes necessary nor their location or depth. The applicant said that he was willing and able to participate in the cost of the work on a 50-50 basis.

CONCLUSIONS AND RECOMMENDATIONS

The applicant's chief reasons for believing the King Hecla Group is worthy of further exploration are based upon its proximity to Globe and the apparent similarity of geological conditions on his property and those with which the well known copper deposits of that area are associated. The northeastward trending fault fissure which was so productive at the Old Dominion splits before passing under cover about two miles southwest of the King Hecla. A fault fissure of somewhat similar strike occurs on the applicant's property but it probably is not a continuation of the Old Dominion vein. Going northeasterly from Globe the copper ore bodies decreased

progressively in size until the termination of the ore was reached at least two miles southwest of the King Hecla. The major portion of the copper produced (1,000,000,000 lbs.) from the Old Dominion and neighboring mines came from the oxide zone. Rich copper ores outcropped and secondary sulfide enrichments were comparatively unimportant. It is true that the same rock formations and some northeastward trending fault fissures occur on the King Hecla property as they do at the Old Dominion, but there the similarity ends. The King Hecla is evidently outside of the central copper zone and its mineralization is more of the silver-lead type. The Old Dominion ore averaged less than an ounce of Silver per ton with little if any lead, whereas the chief value of the ore produced from the King Hecla was silver-lead. No favorable comparison can be made between the great amounts of mineralization in and associated with the veins at Globe and the meager mineralization at the King Hecla. Thus it appears that a comparison of the two areas is hardly pertinent.

The applicant expressed little or no faith in the commercial possibilities of the small erratic ore shoots such as were formerly mined on his property. The future value of the property then will depend either upon finding larger and more persistent oxide ore bodies than those thus far found, or, as the applicant hopes, a deeper enriched sulfide zone. Both of these possibilities appear remote.

The complexity of the problems involved in judging gossans, as to what may underlie them, are appreciated by the writer. In this case the reasoning used was based upon the following considerations: (1) The general meager mineralization as shown by the very small amount of favorable appearing gossan, thus indicating the lack of primary acid-forming sulfides; (2) The presence of calcite in the vein which would act as a precipitant and prevent any large scale migration of the copper; (3) the high copper content (5%) of the oxide ores formerly mined shows that conditions were not favorable, locally at least, for the removal of the copper.

In consideration of these unfavorable conditions it is the opinion of the writer that it is highly improbable that any worth while secondary sulfide enrichment exists in the King Hecla veins.

In any event the target presented for exploratory drilling would be "blind", both as to depth and position along the strike of the vein. The cost of such drilling before obtaining decisive results could well exceed the $20,000 anticipated.

Therefore, it is recommended that the application for a loan be denied.

Mining Division
Region IV

July 13, 1951

Memorandum

To: J. H. Hart, Jr., U. S. Bureau of Mines

A. H. Brockman, U. S. Geological Survey

From: Chief, Mining Division, Region IV

Subject: DPA Docket 514, Final Report, Henry V. Snell's King Mesia Group, Gila County, Arizona

The original application by Henry V. Snell, was for a $200,000 loan for the development and exploration of the King Mesia group of claims. No known mineable reserves exist on the property and at the suggestion of the Coordinating Committee of Defense Minerals Administration, the original application was changed, with the concurrence of the applicant, to a $20,000 exploration loan.

After a detailed examination by the U. S. Geological Survey and the U. S. Bureau of Mines, the team recommends denial of the proposed project.

We concur with their conclusions that the amount and character of the observed mineralization are inadequate to justify the possibility of any underlying sulfide enrichment and this application should be denied.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUL 20 1951
LANDON F. GILBERT
Executive Secretary

P. T. Allman

FOR GOVERNMENT USE ONLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION
WASHINGTON 25, D. C.

200 New Customhouse
Denver 2, Colorado

July 11, 1951

Memorandum

To: DMA Field Team, Region IV

From: A. H. Koschmann

Subject: Report on DMA 514, King Hecla Group (H. V. Snell), Gila County, Arizona

Enclosed are the original and 7 copies of the geologic section of the above report by C. S. Bromfield.

A. H. Koschmann
Supervising Geologist
Colorado-Wyoming

Enclosures

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

P.O.Box 4126, University Station
Tucson, Arizona

July 6, 1951

Memorandum

To: Mr. A. H. Koschmann, Denver, Colorado

From: Mr. A. F. Shride, Tucson, Arizona

Subject: Report on DMA 514, King Hecla Group (H. V. Snell), Gila County, Arizona

Enclosed are 1 original and 7 copies of the geologic section of the above report by C. S. Bromfield of the Geological Survey. The authors recommend that an exploration loan be denied because of the lack of evidence of mineralization in the subject area. I approve the geologic report and the conclusions and recommendations.

Please return one copy to W. R. Storms and one copy to us.

A. F. Shride
Acting District Supervisor
Arizona-New Mexico

Enclosures 8

MINING DIVISION
REGION IV

July 5, 1951

Memorandum

To : Paul T. Allsman, Denver, Colorado

From : Chief, Arizona-New Mexico Br., Mining Div., Region IV

Subject : Final Report, RMA Docket 514, Henry V. Snell's King Mesta Group, Gila County, Ariz.

Enclosed are original and 7 copies of the section on Summary, Conclusions and Recommendations by L. L. Farnham of the Bureau of Mines and C. S. Bromfield of the Geological Survey, and the Engineering report by Farnham for the above docket. Nels Petersen of the Geological Survey visited this property with Farnham and Bromfield, and I believe, concurs with their findings.

This report has my approval.

The brochure is enclosed.

Walter R. Storms

CC P. T. Allsman (7)
C. A. Anderson
RMA 514
RF

WRStorms:frj

UNITED STATES
DEPARTMENT OF THE INTERIOR
OSCAR L. CHAPMAN, SECRETARY

DEFENSE MINERALS ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION IV

DMA-514, Henry V. Snell's King Hecla Group

Gila County, Arizona

L. L. Farnham, Mining Engineer
U. S. Bureau of Mines

C. S. Bromfield, Geologist
U. S. Geological Survey

July 1951

SUMMARY, CONCLUSIONS AND RECOMMENDATIONS

By L. L. Farnham[1] and C. S. Bromfield[2]

Early in 1951 Henry V. Snell of 4125 South Figuero St., Los Angeles 37, Calif., made an application for a Government loan of $200,000 under the Defense Production Act of 1950, to be used in the development and exploitation of the King Hecla Group of mining claims. At the suggestion of the Coordinating Committee of The Defense Minerals Administration, this original application was changed to a $20,000 exploration loan. The applicant proposed to use the loan in the search for an enriched secondary sulfide zone, thought to possibly underlie the outcrop of a vein traversing the property.

The 17 unpatented mining claims comprising the King Hecla Group are situated some 5.5 miles northeast of Globe, Gila County, Arizona. It was presumed by the applicant that the northeasterly trending fault fissures, with which the noted copper deposits of the Globe area were associated, would, if they continued, pass through his property. The type of mineralization, however, on the King Hecla Group has little if any similarity to that of the Old Dominion and neighboring mines.

Seven or more veins of various sizes and attitudes outcrop upon the King Hecla claims. The principal one, upon which the applicant proposed the exploration, is a northeasterly trending fault

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1/ Mining engineer, U. S. Bureau of Mines
2/ Geologist, U. S. Geological Survey

fissure cutting Pre-Cambrian and Cambrian sediments, and dipping 55° southeasterly. The fissure filling is principally brecciated wall rock cemented by oxides of manganese and iron with calcite and minor amounts of quartz. The length and average width of the mineralization within the vein was not apparent. The dumps from the old exploratory openings on the fissure were very poorly mineralized. The great bulk of the material was altered wall rock containing a few random pieces of favorable appearing gossan.

No evidence of well defined or persistent ore shoots were apparent in any of the old superficial workings. The small past production of essentially silver-lead ores came from small scattered bunches distributed irregularly within the veins.

No known mineable ore reserves exist upon the property.

The applicant proposed to explore the main vein by diamond drilling in a search for enriched ore. He estimated that a total of 3,000 feet of drilling would suffice, costing $20,000. The number of holes contemplated was not given, nor were their location or depth.

The former operations on the property have shown that the small erratic ore bodies found in the past are not profitable. Any future value that the claims might have would depend upon finding larger and more persistent ore shoots of the kind formerly mined or, as the applicant hopes, a deeper secondarily enriched zone.

It is the opinion of the writers that both of these possibilities seem remote. The search for the superficially enriched ores within the oxidized zone would be "blind". The amount and character of the observed mineralization in the vein appears inadequate to justify the possibility of the existence of any significant underlying sulfide enrichment. In any event its position along the strike of the vein and its depth are both unknown, consequently the search might prove much more costly than anticipated.

Therefore, it is recommended that the applicant's request for a loan be denied.

Geology

KING HECLA GROUP PROJECT
GILA COUNTY, ARIZONA

Geology

By Calvin S. Bromfield
Geologist, U. S. Geological Survey

KING HECIA GROUP PROJECT
GIIA COUNTY, ARIZONA

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Fig. 2 Geology of the King Hecla Claims (See Engineering Report)

GENERAL GEOLOGY

The King Hecla claims are in the Globe district, Gila County, Arizona. The rock formations within the district include a series of Precambrian and Paleozoic quartzites, limestones, and shales lying on a basement complex of Pinal schist. These rocks are intruded by dikes, sills, and irregular masses of diabase and by various granitic rocks. Remnants of thick dacite flows of early Tertiary age cap many hills. Gila conglomerate of probable Pliocene age covers much of the intermontane areas.

The rocks near Globe are cut by a group of northeasterly faults of pre-dacite age with which the ore deposits are associated. Post-ore faults of northwesterly trend cut the northeasterly faults and displace associated ore bodies.

The greatest production in the district has come from one member of the northeasterly trending fissure system known as the Old Dominion vein. Along this vein there were several productive properties.

The King Hecla group of claims lies about 5 miles northeast of Globe. The claims are approximately two miles northeast of the most northeasterly producing property on the Old Dominion vein. The applicant infers the main or Saddle Back vein to be an extension of the Old Dominion vein. The lack of exposures and an intervening valley deposit of post-ore Gila conglomerate prevent any proof that it is the same vein. The main vein or Saddle Back vein occupies a northeasterly trending fault.

The rocks in the area of the claims are part of the Precambrian Apache group and include from oldest to youngest the

Pioneer shale, Barnes conglomerate, Dripping Spring quartzite, and Mescal limestone. Unconformably overlying the Mescal limestone is the Cambrian Troy quartzite.

Several northeasterly faults and veins cross the claims. The largest of these is the Saddle Back fault (fig. 2) which has a throw of approximately 380 feet. A northwesterly fault (fig. 2) with approximately 400 feet of throw cuts the northeasterly faults.

ORE DEPOSITS

The applicant has amended his original request for a $200,000 development loan to a request for $20,000 to carry out an exploration program. With this money the applicant wishes to diamond drill the Saddle Back vein to find a postulated secondary zone of copper enrichment.

Northeast of the road three small adits have been driven into the hillside on the Saddle Back vein. This work is over thirty years old, and, as a result, is caved and inaccessible. The adit nearest the road was the only place where the vein could be observed by the examining team. Here the vein was about 5 feet wide and consisted of a barren breccia of quartzite fragments and comminuted wall rock. Material on the dumps was largely of barren wall rock. Manganese oxides (probably pyrolusite) were quite common as coating. Malachite stains were observed, but were rather rare. There were a few pieces of material that might properly be classed as a gossan. These consisted of a dull red mass of hematite and specularite containing rare malachite stains or seams and probably some copper oxide. Some galena boxwork was observed in one specimen.

The vein does not outcrop southwest of the road but two adits were driven here in an attempt to cut the vein. The lower adit was entirely in the footwall and failed to find the vein. The upper adit cut a vein trending in a direction parallel to the Saddle Back vein, but only the footwall was seen and it could not be determined whether this was the Saddle Back fault. The fault was filled with barren breccia.

CONCLUSIONS

The vein could not be observed sufficiently owing to the inaccessibility of the workings, but there are several lines of reasoning that mitigate against the possibility of the Saddle Back vein's developing any important copper production. First, a comparison with other producers in the Globe district, shows that whereas an important part of the early production of these mines came from the oxidized ores there has been little or no recorded production of oxidized ore from the Saddle Back vein, though it has been adequately prospected at the surface. According to a statement by H. V. Snell, small parallel veins have produced $50,000 to $70,000 in oxidized lead-silver-copper ore. This is stated to have been "pockety" in nature.

Second, there is no evidence for assuming the presence of any considerable amount of copper in the primary sulphide. Absence of any significant amount of gossan in the outcrop of the Saddle Back vein would seem to signify a lack of pyrite in the primary ore which, with the calcite of the gangue, make conditions unfavorable to extensive migration of copper from the outcrop.

Third, the intensity of mineralization diminishes to the northeast along the productive veins of the Globe district. The prominence of silver and lead as compared with copper in the veins of the King Hecla group suggests either a mineralization unrelated to the productive copper veins of the Globe district, or a zoning away from the center of mineralization.

The comparisons with the productive zone of the Globe district are unfavorable, but regardless of their validity the generally unmineralized character of the vein itself does not allow the writers to recommend this as a sound project having a reasonable chance of making a significant discovery of metals.

HENRY V. SNELL'S KING HECLA GROUP
GILA COUNTY, ARIZONA
DMA Docket 514

Engineering Report

By L. L. Farnham
Mining Engineer
U. S. Bureau of Mines

Engineering

HENRY V. SNELL'S KING HECLA GROUP
GILA COUNTY, ARIZONA
(DMA-514)

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INTRODUCTION

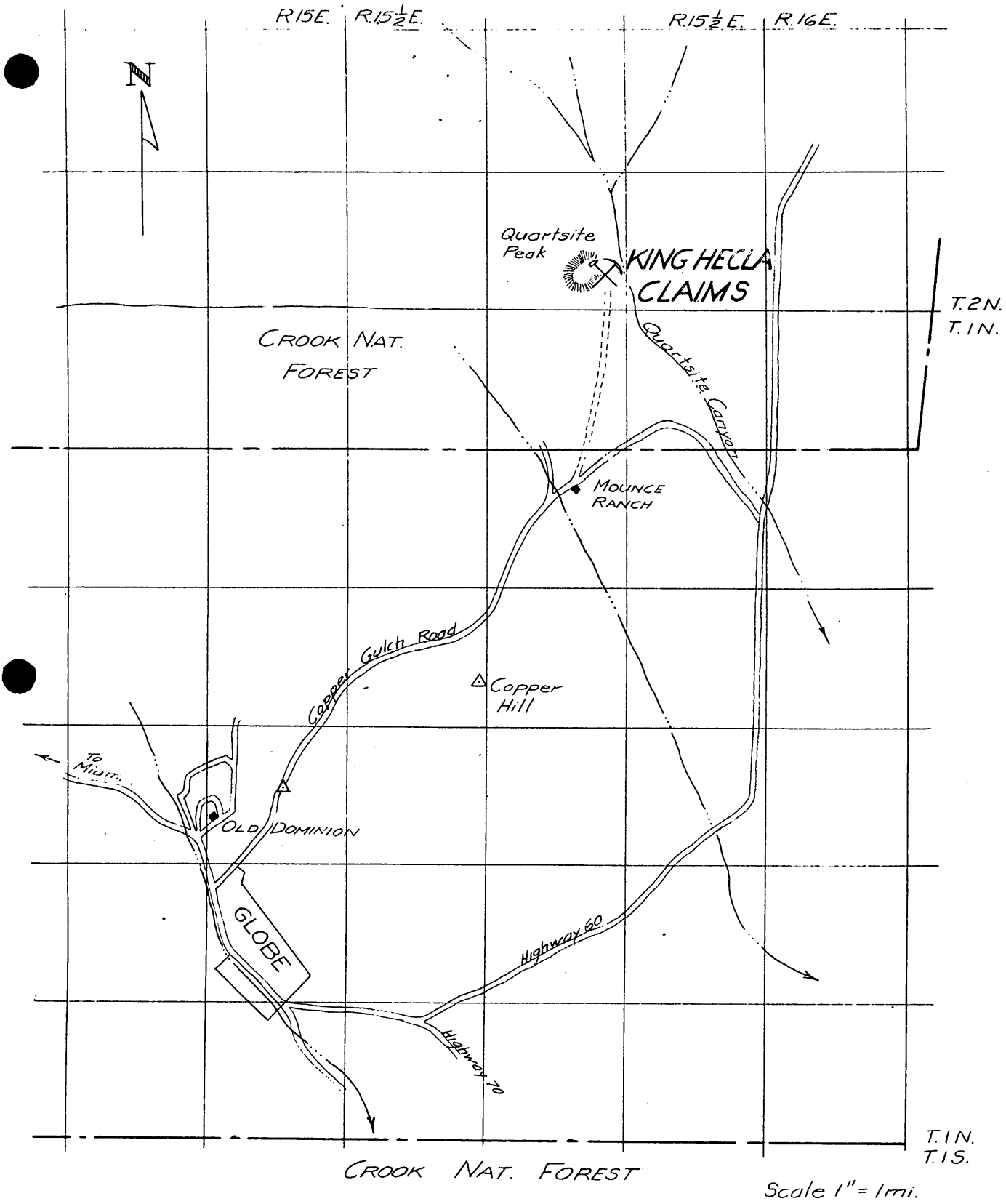
This report covers the results of the investigation of the King Hecla Group of mining claims made in connection with the loan application of Henry V. Snell, 4125 South Figueroa St., Los Angeles 37, Calif., to the Defense Minerals Administration. The application, as originally submitted, requested a $200,000 operating loan. This later was changed to a $20,000 exploration project. The money was to be used in the search for a possible zone of secondary sulfide enrichment which the applicant thought might underlie the outcrop of a vein traversing the King Hecla property.

ACKNOWLEDGMENTS

Acknowledgment is hereby made to Henry V. Snell, owner of the property, and Nels P. Peterson of the Geological Survey for the courtesies and help extended the field team during the examination of the property.

LOCATION AND PHYSICAL FEATURES

The King Hecla Group is situated about 5.5 airline miles northeast of Globe, Gila County, Arizona. The property is reached from Globe via the Copper Gulch road to the Mounce ranch. From there the road runs almost due north for 1.5 miles and ends at the mine. This part of the road is in poor condition with the last mile impassable. (Fig. 1)



DMA 514

Fig. 1. Location map, King Hecla Project, Gila Co., Arizona

The claims are in a moderately rugged area with rather precipitous canyon walls on the east and north slopes. Vegetation is sparse. The climate is similar to that prevailing in the arid desert regions of the Southwest.

HISTORY AND PRODUCTION

Little is known of the history or production of the King Hecla. A report accompanying the applications states that the claims were located about 35 years ago. HenryV. Snell, the applicant, estimates that the total production has amounted to between $50,000 and $75,000. This production camefrom the shallow workings on several different veins. About 54 tons, mined by the applicant 30 years ago, is said to have contained 37.4 ounces of silver per ton, 11.6 percent lead, and 5.1 percent copper. This would indicate that the chief value of King Hecla ore was silver-lead.

OWNERSHIP AND EXTENT

The King Hecla Group consists of 17 unpatented mining claims. The applicant has purchased the group for $25,000 but still owes a balance of $5,000.

DESCRIPTION OF THE DEPOSIT

There are seven or more veins of various lengths and widths exposed on the property. The strikes of the veins range from N.30° E. to N. 80° E., with dips from 50° to 80°. (Fig. 2). Vein widths vary from 3 to perhaps as much as 20 feet. All the fissures cutCambrian and Pre-Cambrian sediments which dip moderately to the southwest.

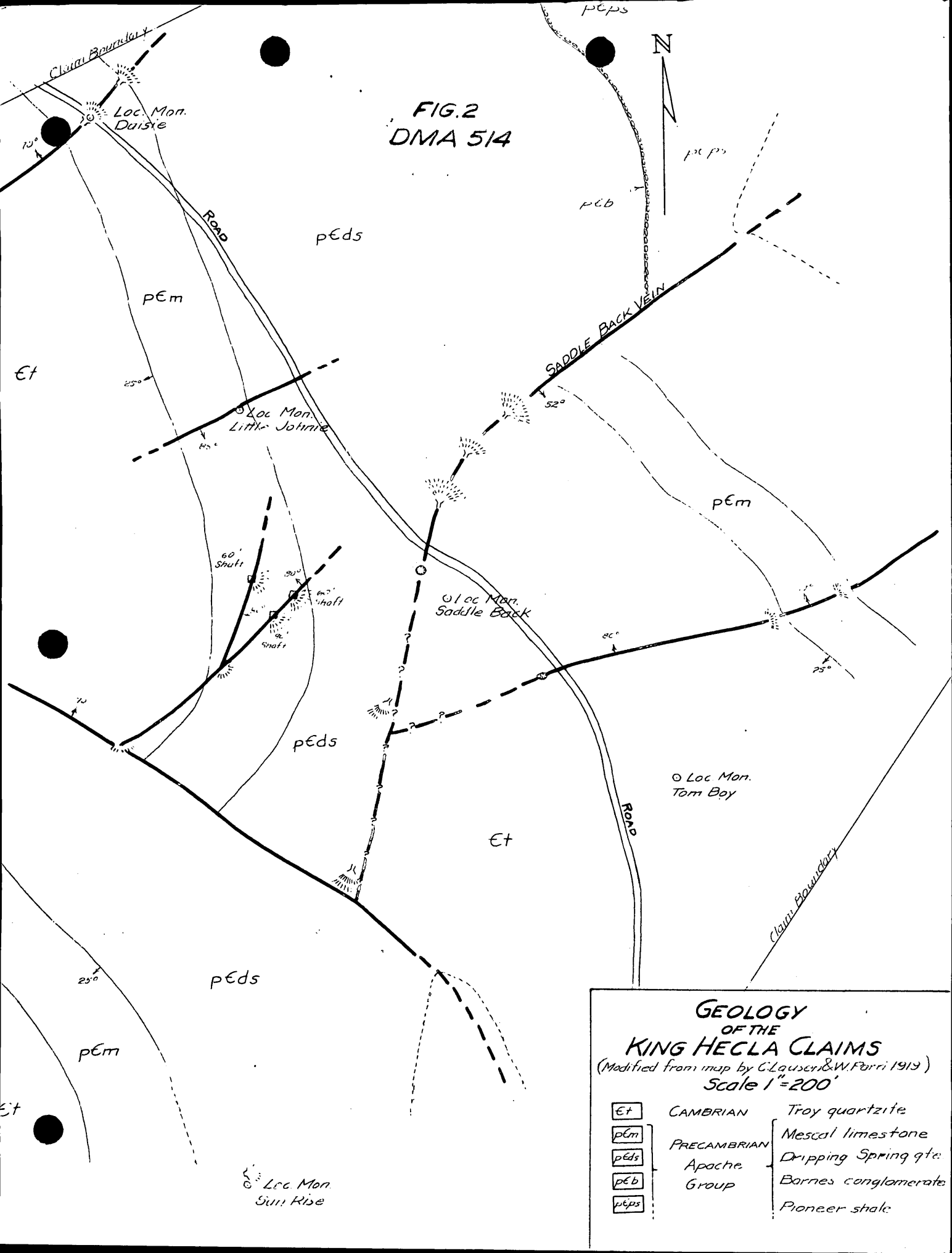


FIG. 2
DMA 514
N
Claim Boundary
Loc. Mon.
Daisie
ROAD
pЄds
pЄm
Єt
pЄps
pЄb
SADDLE BACK VEIN
Loc. Mon.
Little Johnie
60' Shaft
Shaft
Shaft
Loc. Mon.
Saddle Back
Loc. Mon.
Tom Boy
ROAD
Claim Boundary
Loc. Mon.
Sun Rise
GEOLOGY
OF THE
KING HECLA CLAIMS
(Modified from map by C. Lausen & W. Parri 1919)
Scale 1" = 200'
Єt CAMBRIAN Troy quartzite
pЄm
pЄds
pЄb
pЄps
PRECAMBRIAN Apache Group
Mescal limestone
Dripping Spring qte.
Barnes conglomerate
Pioneer shale

The principal vein of the system,known as the Saddle Back, is a fault fissure trending about N. 30° E. and dipping 55° Southeasterly. It iss said to have a known length of 1,300 feet. This is open to question as much of the surface is covered with detritial material. Three adits, driven on this vein, are reported to have disclosed vein widths of 20 feet. Unfortunately the portals of all these adits are now tightly caved so that the character of the vein filling could only be judged from the dumps resulting from this work. In an open cut above the adits the mineralized section of the fissure was about 5 feet wide. The fissure filling of all the veins is principally brecciated wall rock cemented by varying amounts of oxides of manganese and iron, with calcite and minor amounts of quartz. The dumps, representing the vein material broken in the adit drifts, were very poorly mineralized. The great bulk of all the dumps was altered wall rock containing only very minor amounts of favorable-appearing gossan. Manganese and iron oxides, showing some copper and oxide lead minerals, were the principal constituents of this gossan.

The old superficial workings on the property showed no indications of the presence of well defined or persistent ore shoots. The small past production of essentially silver-lead evidently came from small isolated bunches of ore distributed irregularly within the veins. The value of the ores mined probably did not repay the cost of the work that was necessary to find them.

It is unfortunate that so much of the old underground openings were found inaccessible. Had they been open they might have disclosed different or more favorable conditions than those that were observed. However, it seems improbable that any additional information that they might have furnished would have materially changed the main conclusions of this report.

ORE RESERVES

There are no known ore reserves exposed on the King Hecla property at this time.

EXPLORATION AND DEVELOPMENT

The early day search for high-grade silver ore resulted in considerable prospecting and shallow exploration on the various veins. Three shafts reaching depths of from 60 to 90 feet, with rather extensive drifting, served to explore the small Saddle Back vein and its northern branch. This work is now inaccessible. Openings on the main Saddle Back vein consisted of four adits of unknown length driven on the fissure from the steep eastern hillside. All of this work was caved and inaccessible with the exception of the westerly-most shaft and its connecting adit. Here the vein had an exposed width of 6 feet with the manganese-iron mineralization following the footwall. Another adit, consisting of some 350 feet of work, driven from the base of the westernly slope, failed to find the main vein. It appeared that this work was improperly located and did not necessarily disprove the presence of the vein in this area.

No buildings or other equipment are left upon the property. The nearest source of water is the Mounce ranch, about 1.5 miles south of the claims.

PROJECT PROPOSALS

The applicant proposed to search for an enriched secondary sulfide zone thought to possibly underlie the outcrop of the Saddle Back vein. It was suggested that diamond drilling be employed for this exploration. He estimated that 3,000 feet of drilling would suffice, costing about $20,000. No definite proposal was made as to the number of holes necessary nor their location or depth. The applicant said that he was willing and able to participate in the cost of the work on a 50-50 basis.

CONCLUSIONS AND RECOMMENDATIONS

The applicant's chief reasons for believing the King Hecla Group is worthy of further exploration are based upon its proximity to Globe and the apparent similarity of geological conditions on his property and those with which the well known copper deposits of that area are associated. The northeastward trending fault fissure which was so productive at the Old Dominion splits before passing under cover about two miles southwest of the King Hecla. A fault fissure of somewhat similar strike occurs on the applicant's property but it probably is not a continuation of the Old Dominion vein. Going northeasterly from Globe the copper ore bodies decreased

progressively in size until the termination of the ore was reached at least two miles southwest of the King Hecla. The major portion of the copper produced (1,000,000,000 lbs.) from the Old Dominion and neighboring mines came from the oxide zone. Rich copper ores outcropped and secondary sulfide enrichments were comparatively unimportant. It is true that the same rock formations and some northeastward trending fault fissures occur on the King Hecla property as they do at the Old Dominion, but there the similarity ends. The King Hecla is evidently outside of the central copper zone and its mineralization is more of the silver-lead type. The Old Dominion ore averaged less than an ounce of Silver per ton with little if any lead, whereas the chief value of the ore produced from the King Hecla was silver-lead. No favorable comparison can be made between the great amounts of mineralization in and associated with the veins at Globe and the meager mineralization at the King Hecla. Thus it appears that a comparison of the two areas is hardly pertinent.

The applicant expressed little or no faith in the commercial possibilities of the small erratic ore shoots such as were formerly mined on his property. The future value of the property then will depend either upon finding larger and more persistent oxide ore bodies than those thus far found, or, as the applicant hopes, a deeper enriched sulfide zone. Both of these possibilities appear remote.

The complexity of the problems involved in judging gossans, as to what may underlie them, are appreciated by the writer. In this case the reasoning used was based upon the following considerations: (1) The general meager mineralization as shown by the very small amount of favorable appearing gossan, thus indicating the lack of primary acid-forming sulfides; (2) The presence of calcite in the vein which would act as a precipitant and prevent any large scale migration of the copper; (3) the high copper content (5%) of the oxide ores formerly mined shows that conditions were not favorable, locally at least, for the removal of the copper.

In consideration of these unfavorable conditions it is the opinion of the writer that it is highly improbable that any worth while secondary sulfide enrichment exists in the King Hecla veins.

In any event the target presented for exploratory drilling would be "blind", both as to depth and position along the strike of the vein. The cost of such drilling before obtaining decisive results could well exceed the $20,000 anticipated.

Therefore, it is recommended that the application for a loan be denied.

REPORT ON KING HECLA GROUP

LOCATION AND TOPOGRAPHY

LOCATION:

The King Hecla Group is located about 3 miles east of Copper Hill and consists of 17 claims and fractions. (See Plate 1 for the names and relative position of the surveyed claims.) The western half of the property consists of unsurveyed claims roughly monumented on the ground. The property is reached from Globe by an auto-road to Copper Hill, and thence by a fair wagon-road directly to that portion of the property now being operated. With the exception of the last one-half mile, material and supplies are easily transported to the mine.

Water is obtainable by sinking a shallow well in the bottom of the deep canyon which passes through the Fame Extension Nos. 1, 4 and 6. At present water is obtained at a nearby ranch. A sufficient amount for domestic and mine usage is assured, and it is probable that enough to operate a small mill may be had. Mine workings below the elevation of the canyon will furnish adequate water for all purposes.

TOPOGRAPHY:

The King Hecla Group is situated in a rugged area characterized by even, smooth detrital-covered slopes to the west and south, due to the dip of all sedimentary rock formations in that direction, and abrupt, precipitous canyon walls to the east and north slopes. A deep gulch passes through the eastern portion of the group and drains the southwest side of the Apache Mountains. Passing across the Daisie, Little Johnnie, Saddle Back and Tom Boy is a high ridge, having a slight saddle on the Saddle Back claim. West from the

Report by Porri and Lausen accompanying Application for Mine Loan by Henry T. Snell, P.O. Box 1947, Prescott, Arizona.

Little Johnnie is a branch ridge forming a "T" with the main ridge. It passes gently out into a broad wash at the western end of the property.

G E O L O G Y

STRATIGRAPHY:

Of the various formations exposed in the Globe Mining District the following outcrop on the King Hecla group of claims:

1. Alluvium and float
2. Cambrian Upper Quartzite
3. Cambrian Limestone
4. Cambrian Lower Quartzite
5. Barnes Conglomerate
6. Pioneer Shale
7. Diabase

1. The alluvium consists of well-rounded grains of sand and gravel, together with some rounded boulders. The pebbles and boulders are made up of fragments of all the formations enumerated above. It is confined entirely to the major stream valleys.

In mapping, no separation was made between the alluvium of the stream and float. The float consists of a layer of detrital rock covering the gentler slopes of the hills. It is, however, much more angular in nature and has suffered little or no transportation. Therefore, it represents the rock immediately beneath or slightly up the slope of the hillside. Inasmuch as neither the alluvium nor the float has any great thickness and has no bearing upon the origin or occurrence of the ore, they will be dismissed with this brief note. It must be borne in mind that in places it covers the possible extension of the surface outcrops of the veins.

2. The Cambrian Upper Quartzite consists of an unusually

pure beach sand metamorphosed to a quartzite. The individual grains are of fairly uniform size, well-rounded, and consist almost entirely of vitreous quartz. A little of some iron-bearing mineral is present as the exposed surface weathers to a buff or brown color. The cement is secondary silica.

It is of Cambrian age and represents a true beach sand formed on the floor of an encroaching sea. Where it occurs in the vein, it is usually heavily stained with iron and manganese oxides, indicating mineralization. It is the uppermost of the ore-bearing horizons. About 60 feet above its base is an intraformational conglomerate. The pebbles are well-rounded and consist chiefly of chert, jasper or vein quartz. It differs very much from the conglomerate occurring at the base of the Upper Cambrian Quartzite.

The basal conglomerate contains more or less angular fragments of the siliceous material of the underlying Cambrian limestone. It represents an erosional unconformity. A few miles to the west, in the vicinity of the Superior & Boston mine, a basalt lava flow separates the Cambrian Upper Quartzite from the underlying Cambrian limestone.

3. The Cambrian limestone in this vicinity has a thickness of 80 feet. It is a variable dolomitic limestone with nodules and bands of chert. On breaking off fragments of the outcrop one is astonished at the remarkable banding due to various impurities. Some are greenish, others brownish gray. The outcrop will often show a pitted structure, suggesting an amygdaloidal lava flow. This structure is due to the solution of the soluble lime leaving the insoluble silica behind. The variable nature and dolomitic character strongly suggest this to be a fresh water limestone.

In the large copper mines of the Globe district, this limestone is a very favorable horizon for the deposition of the copper ores, the ore occurring in replacement bodies. These bodies of primary ore attain a width, in some cases, of 60 feet. The ore is also usually of higher grade than in other formations, with the possible exception of the carboniferous limestones.

4. Lying conformably beneath the Cambrian limestone is the Cambrian Lower Quartzite. The weathering of this siliceous limestone made easy the mapping of the contact. It changes through shale to thin bedded fissile quartzite. This quartzite is also banded, and the stripes are usually reddish brown to buff. It is arkosic and was probably derived by the disintegration of a granitic land-mass. The occurrence of mud-cracks and worm-trails suggests a fluviatile or delta origin.

In the copper mines of the Globe district, this formation has good ore-bodies. The ore-bodies occur as true fissure veins, with well-defined hanging wall and footwall. A good grade of ore has been mined from this formation in the Arizona Commercial and the Iron Cap mines. Thickness 575 feet.

5. The Barnes Conglomerate, while only a few feet in thickness, is the best horizon marker of the Globe district. It separates the Cambrian Lower Quartzite from the underlying Pioneer shale.

6. The Pioneer shale is a very fissile banded rock, generally of a red to purplish color. If examined closely, it is not likely to be confused with the shaly beds occurring in the Cambrian Upper or Lower Quartzites. Its most characteristic feature is the presence of small white or dark green spots indicating a local re-

duction of the iron. Where it occurs in the vein it may be expected to be mineralized. It has a thickness of 350 feet.

7. The Diabase occurs as an intrusive sill injected between beds of the Pioneer shale and near the base of this formation. It probably has a thickness of from 300 to 1,000 feet. The few outcrops found occur in the creek bed to the north of the Fame and were exposed by a large fault trending lengthwise of this valley. The nearest measured thickness was in the Superior & Boston mine, where it is 300 feet.

It is a dark green rock, holocrystalline, and with the disabasic texture well developed. When exposed it easily weathers down to an olive-drab soil, and is usually confined to the valleys.

The diabase is the least favorable rock for the deposition of ore, although ore has been found in it at the other mines of this district.

STRUCTURE:

The dominant structure of the region is due to normal faulting. Folding, if it occurs, is developed to such a minor degree as to be negligible.

Before describing the faulting, it might be well to define a few terms as they will be used in this report:

A fault is a fracture in the earth's crust and is generally caused by tension stresses within the earth's crust. A normal fault is one in which the hanging wall has gone down with respect to the footwall. Fig. 1 shows the black before faulting; Fig. 2 after faulting.

The vertical distance the black band has moved down is called the throw.

A large fault trends up the valley across the Fame Extension claims and strikes about N. 45° W. The dip is to the north. It is normal and has an unknown throw. It brings Cambrian Upper Quartzite against diabase.

About 600 feet southwest of the saddle is another normal fault. It strikes about N. 75° W., and dips to the north. The block to the east has a down-throw of 400 feet. Cambrian Upper Quartzite is brought against Cambrian Lower Quartzite.

About 2500 feet southwest is another normal fault. The throw on this could not be determined because of the lack of good exposures. It probably has a throw of about 500 feet. The breccia is 50 feet wide.

These three faults are shown in section A-A'. It will be noticed the dip of the sediments is about 25° to the southwest. This dip is fairly constant over the whole property.

Section B-B shows one fault with a 375-foot throw. It is on this fault that the large vein occurs. The other small faults shown in the section are adjustment blocks, with only a minor movement.

The strike of the large fault is about N. 35° E., with a dip of 55° to the southeast. The extension of this fault could not be found on the opposite side of the draw and has been cut off by a cross-

fault. A study of the topographic development leads us to believe it will be found in the main valley heading towards the Superior & Boston mine. The occurrence of different sediment on both sides of this valley also suggests this.

VEINS AND ORE-OCCURRENCE:

Minor Veins:

Running on a course approximately N. 67° E. are six veins, -- the Daisie, Little Johnnie, North and South Saddle Back Veins, Tom Boy and Wish-bone Veins. These veins being of similar origin and mineralization, a general discussion will be common to the entire group.

These veins are no more than strong parallel sheeting planes, with vertical displacements of from 1 to 10 feet. Their origin is probably contemporaneous to the general northeast faulting which is common to the mineralized veins of this district. This faulting is observed from Pinal Creek at the Old Dominion mine, eastward through the Arizona Commercial, Iron Cap and Superior & Boston mines, upon which last named property it is lost, being covered by the Gila Conglomerate, a formation of late origin. The Gila Conglomerate and recent alluvial deposits appear on the surface for a distance of about 1½ miles and no indication or evidence of veins or faulting is to be found. Eastward from this point the lower sedimentary rock appears on the surface amd a general northeast faulting is again exposed.

The small sheeting fractures which form the minor veins on the King Hecla are probably sympathetic to this faulting and produced the necessary readjustment of the earth's crust after this great period of disturbance.

However, another origin for these minor fractures is very probable. The intrusion of the sill of diabase into the Cambrian Lower Quartzite may have fractured the overlying sedimentary rock and subsequent shrinkage, upon cooling of this igneous mass, made necessary a readjustment which was accomplished by slight movement upon the fracture planes.

The intrusion of the diabase and the northeast faulting are very closely related, and it is therefore probable that a combination of the two activities working in conjunction is responsible for the origin of these strong sheeting veins.

A strong cross-fault, dipping to the east, cut off the western extension of this group of veins, as well as the large Saddle Back fault. This faulting offsets the veins horizontally to the south, but because of the detrital material which covers the surface in this locality, the veins were never again identified. Some strong mineralized sheeting was found west of the cross-fault which offset the outcrops, and again the detritus made their tracing impossible. Several minor fractures of this general strike outcrop near the western extremity of the property, but the exposures were never greater than 20 feet in length and could not be connected. The mineralization of the outcrops of these sheeting veins consist of pyrolusite (manganese dioxide), limonite (iron oxide), massicot (lead oxide or lead stain) and a leached honey-combed rusty quartz. Assays of all outcrops showed values in silver and copper, though minerals of these metals were not visable.

Underground workings were necessary to expose copper and silver minerals. Shallow cuts or tunnels in all cases show veins of from 2 to 4 feet in width, consisting of brecciated fragments of

quartzite or crushed limestone cemented loosely together with iron, manganese and lead oxides, and occasionally containing rich pockets of copper-silver ores. The copper minerals are chrysacolla and malachite, with occasionally some cuprite, and are characteristic of shallow copper deposits. They are of secondary origin and were deposited by the descension of surface waters containing copper in solution. Cerargyrite, horn silver, or chloride, is in all cases associated with the copper minerals. It occurs as a crust upon copper-stained fragments, or as small globules disseminated throughout the copper ores. Ores showing no signs of copper or horn silver but consisting of limonite and manganese assay low values in both copper and silver, while ores with much copper assay up to 4,000 oz. of silver, which shows the association of the two metals more definitely.

No sulphide minerals of either primary or secondary origin were seen. They are rarely encountered in shallow workings. The veins have the appearance of being leached of the sulphide minerals. This is a very favorable indication, as a greater part of the copper and some silver values will be encountered at the water table, in a highly concentrated form, where they were carried and redeposited by descending solutions. Cuprite and native silver should be found at the top of this zone of secondary enrichment. Below this the sulphide of copper chalcocite will be encountered. It is at this elevation that the rich, uniform grade of ore is to be anticipated.

Below the zone of secondary enrichment the ores will contain increasing amounts of pyrite (iron sulphide). Chalcopyrite will appear when a greater depth is attained, along with decreasing amounts of chalcocite and increasing pyrite, until the typical primary ore is reached.

The zone of secondary enrichment will be at a depth of at least 800 feet below the collar of the proposed shaft, and though the prospects of opening up large bodies of ore above this level are not very encouraging, the veins should be tested at each 200 feet of depth.

Saddle Back Fault Vein:

This vein is one of the major northeast faults discussed previously. Its outcrop is traced from the wash in the bottom of the deep gulch westward for 1300 feet, where it is cross-faulted and thrown into the wash, east of the King Hecla property. Although the vein is not uncovered again, the difference in rock formations on either side of the wash proves conclusively the presence of a larger fault. (This ground is to be located immediately by the King Hecla Copper Company.)

The outcrop of this large vein is covered with float over the greater portion of its course, but at the few exposures the usual minerals of manganese, iron and lead are present.

Tunnels have been driven into the vein and attain a maximum depth of 100 feet. A vein 20 feet wide, having strong slickenside walls dipping 55° degrees to the south and striking N. 34° E., was exposed. The vertical displacement of this fault vein is about 380 feet. Upon this vein the possibilities of the King Hecla Copper Company depend for its future success as a large mine.

The vein is composed of about 20 feet of brecciated quartzite, cemented with and containing streaks of limonite and pyrolusite. Copper minerals and silver were extracted from small pockets similar to those described in connection with the smaller vein.

The vein-matter is thoroughly leached. This is very favorable for the zone of secondary enrichment, and is the point upon which the property is recommended. A discussion of this enrichment is covered

in the description of the other veins and will not be again taken up. The conditions for such redeposition of the copper and silver values are better in the case of this vein because a much greater amount of ground has been leached; therefore the amount of copper and silver to be concentrated is many times greater than in the case of the other veins.

The wall rocks of the Saddle Back Fault are very favorable for a wide vein. Having a vertical displacement of nearly 400 feet, a great amount of material will have been crushed into vein material during the movement. The wall rock, quartzite and limestone are very favorable for replacement ore-bodies, and unless the thickness of the diabase sill exceeds the throw of the vein, the wall rocks will be composed of at least one favorable formation. Two walls of diabase usually form a tight, lean vein, but it is improbable that this condition will exist as the lower sill of diabase encountered at the Superior & Boston mine, the nearest working in which it has been cut, is only 300 feet thick.

Geologically, the Saddle Back Vein is ideal for the deposition of large copper ore-bodies. The minor fractures are not so good, and by themselves would not warrant the expenditure necessary to explore them at depth. However, as the main vein warrants deep exploration, prospecting of the smaller veins from the work proposed upon the large vein would be comparatively inexpensive and should be undertaken subsequently.

CONCLUSION:

A careful consideration of all the facts available at the present time which bear upon the future of the property, strongly indicates that the Saddle Back Vein is one of merit and warrants such

reasonable expenditures as will be required to determine its value. That is, the sinking of a shaft below the ground water level into the zone of secondary enrichment and then the necessary lateral drifting in that zone.

With operations on the smaller silver veins to carry a part of the development cost for deep exploration, this property has indeed an encouraging outlook. However, efficient management and well-directed development work are essential to guide the expenditure of available funds into the proper channels.

We are strongly of the opinion that the King Hecla Copper Company is destined to become a producing copper mine when its property is thoroughly prospected at depth.

PRESENT AND PREVIOUS MINING OPERATIONS

DAISIE:

About 1,000 tons of silver ore were extracted from the stopes on the Daisie vein. This ore was bunchy in value and pockety, occurring near the surface. A tunnel about 250 feet long on the vein is in good condition. A cross-cut from this tunnel cut another parallel vein about 10 feet south of the Daisie Vein.

LITTLE JOHNNIE:

A location cut about 6 feet deep is the only work on this vein. The showing in this cut warrants more work, as the outcrop is strong and contains good values in copper and silver.

SADDLE BACK:

North Silver Vein: An incline shaft 60 feet deep is the only

development on this vein. Good values of silver can be obtained from this shaft and copper stain is frequently visable.

South Silver Vein: Two incline shafts, 60 and 90 feet deep, is the only development work on this vein. The shafts were recently put down and about 40 tons of high grade ($300.00 per ton) silver-copper ore was shipped.

MAIN SADDLE BACK FAULT VEIN:

Three tunnels, only partly accessible, now enter this vein on the steep eastern hillside. Small amounts of high grade silver-copper ore were mined in past years from these tunnels. A shaft was sunk from the saddle but judging from the dump its depth was not in excess of 100 feet. It is now caved. The tunnel work, of which there is about 500 feet, is confined to the leached portion of the vein near the surface.

TOM BOY:

Two tunnels enter this vein from the east slope of the ridge. One was near the crest of the hill. The other, though about 100 feet lower, was inadequate to develop the vein. Several hundred tons of silver ore were mined from these tunnels.

WISHBONE VEIN:

No work was done on this vein on the east side of the ridge where it is strongest.

FAME EXTENSION:

The six Fame Extension claims are undeveloped and unprospected. The surface of these are covered with float and will claim the east extension of all the above mentioned veins and the possible extension of

the three Fame veins which were, in the early days of the camp, the district's most famous silver producers.

SUN RISE:

A shaft about 100 feet deep, with about 100 feet of drifting on the vein, is accessible in part. Ore was also extracted here in the earlier years and some has been mined recently. On the north slope of the ridge are several short tunnels and a shallow shaft. Although some ore has been mined from these, they are all upon small sheeting veins.

RECOMMENDATIONS

Regarding future mining operations, the following recommendations are made:

1. That shallow mining operations and development be undertaken through a tunnel located on the Saddle Back fault vein at a point in the draw to the west of the saddle. A depth of 150 feet below the saddle is thus obtained, which is a favorable depth to prospect, by means of cross-cuts to the north and south, all of the smaller silver-producing veins.

2. That a shaft be sunk to a depth of at least 600 feet. This shaft should be located at the saddle, or near the portal of the tunnel described in No. 1.

3. That levels be spaced at 100-foot intervals and be driven on or parallel to the main fault vein.

4. That crosscuts be driven, cutting all parallel veins on one of the lower levels. This by all means should be done on the Tom Boy vein.

5. That drifting on both small veins to the north of the fault vein and mining of the ore found thereon be carried on during the

period of development. Production from this work would carry a large portion of the development cost.

6. That recommendations Nos. 1 and 5 be undertaken at once and that the sinking of the shaft be deferred until sufficient funds are at hand to carry on the work in an efficient, systematic manner.

(Signed) W Porri

(Signed) Carl Lausen

REPORT ON KING HECLA PROPERTY

LOCATION OF PROPERTY:

The property consists of 17 mining claims situated in Gila County, Arizona, about four miles northeasterly of the town of Globe.

ACCESSIBILITY:

The property is connected by wagon road with Globe.

PHYSICAL CHARACTERISTICS:

The claims are located lengthwise along the master fracture of the district, for a distance of slightly over a mile. This is the same fracture from which large tonnages of copper ores were produced from four earlier large mines in the district, and the main fracture on this property is a direct extension of the old productive area, being a direct extension in strike and having a similar dip, and cuts the same Cambrian Quartzites and Limestones, and shows the same type of mineralization which produced the large tonnages in the earlier operations. (See attached map showing relation of main fracture to property lines.)

HISTORY OF THE PROPERTY:

The property was located about 35 years ago by two prospector-miners and through survival of one of the locators title has until recently been maintained in original locators.

GEOLOGY:

The geology may be expressed as a master fracture cutting these Cambrian sediments with the vertical displacement on the master fracture of about 400 feet. It is on this master fracture that the main vein is formed. Parallelling the master fracture in a general way are several minor veins which are in my opinion sympathetic or adjustment cracks to the main fracture. The movement on these small breaks is small. I do not consider the small veins very important in themselves

Report by Henry V. Snell accompanying Application for Mine Loan by Henry V. Snell, P.O. Box 1947, Prescott, Arizona.

but they are all mineralized and have all produced commercial ores. This production has probably amounted to from $50,000 to $75,000 over the years. These small veins are tighter and less leached than the main fracture vein, hence the oxidized ores are still available in them.

The main vein is a strong vein about 20 feet wide, thoroughly brecciated and filled with hematite, limonite and pyroulousite, occasional stains of oxidized copper minerals but most thoroughly leached in character. To any one experienced in copper mineralization it is a natural for secondary ores with a very good chance of picking up some oxidized ore bodies on the way down to the secondary deposition. In my opinion another most favorable point in connection with this property is that it is in an old productive area where extensive mineralization has been demonstrated and past experience in the area gives a basis on which to predicate probable results from development.

The detail geology with the thickness of the sediments, etc., has been so well covered by report and maps by Messrs. Porri and Lausen (copy included) that in the interest of brevity it is unnecessary for me to discuss.

ORE IN SIGHT:

Technically speaking, there is no measurable ore in sight except that small tonnages could be kept moving from exposures of oxidized ores in openings on the small veins and the making of new openings at favorable points on them. As an example of the type of ore to be expected, the writer first considered this property about thirty years ago and made a shipment from the south branch of the Saddle Back small vein of 54.5 tons carrying 5.1% Cu., 11.6% Pb. and 37.4 oz. Ag. This was all oxidized and came from a small shaft about 60 feet deep. This shipment should be more or less representative of what might be done

working the small veins while the large vein is being opened.

From some of the exposures on the property it is possible that some manganese (pyroulousite) might be produced, this providing the analysis requirements are not too rigid. I State this from the fact that during the first world war I shipped several carloads of manganese ore from adjacent territory to a Chicago, Illinois, market.

CONCLUSION

My conclusions may be summarized as follows:

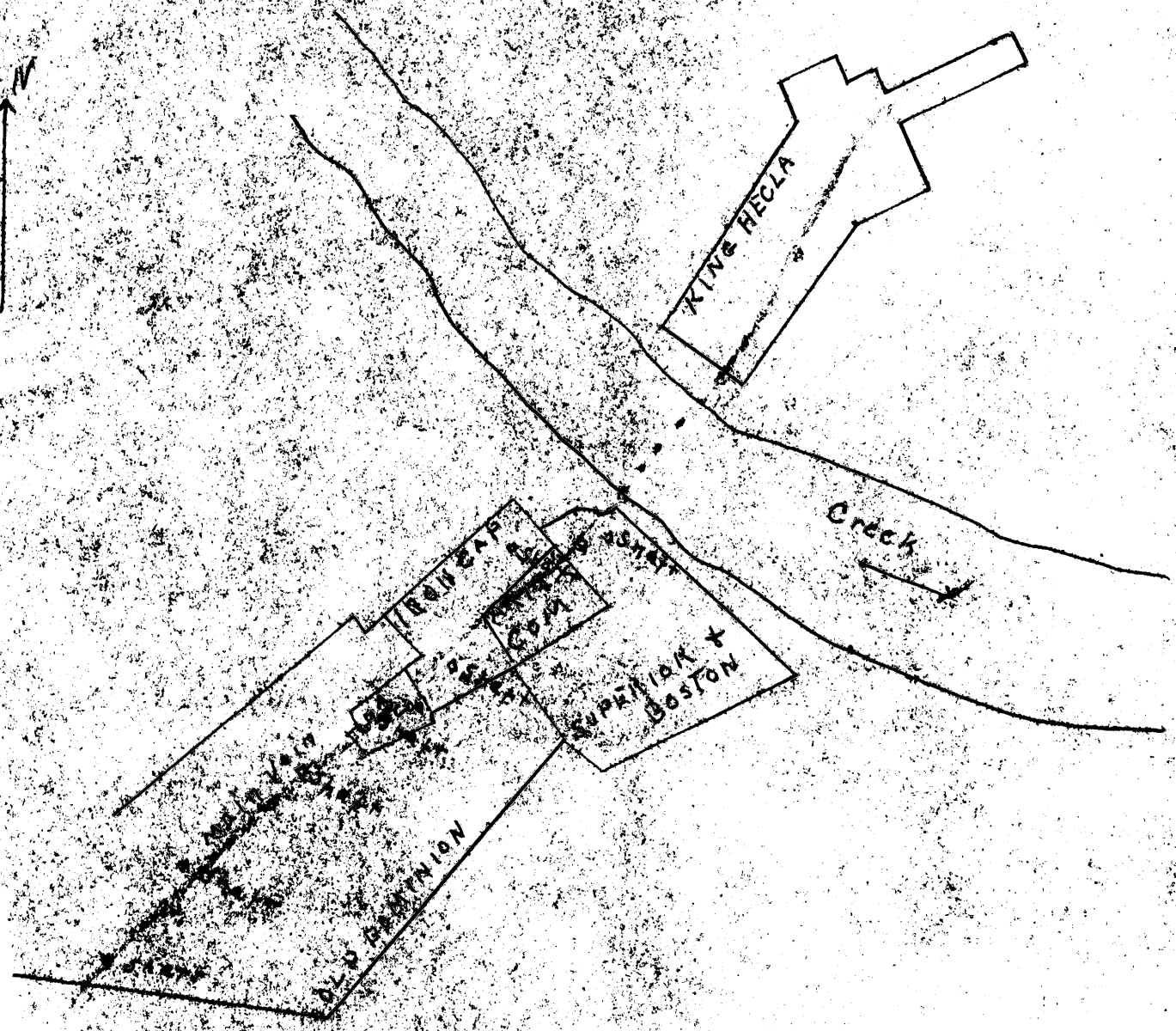
First: The main vein as well as the smaller veins were mineralized by copper, lead and silver sulphides as evidenced at practically all openings and outcrops.

Second: Considerable oxidized ore has been mined from the smaller veins with occasional small amounts from the large vein. Similar operations can be continued from present point, but the large mine will be made from the development of the large leached vein at depth, and there is sufficient evidence to warrant the belief that large bodies of ore will be found at permanent water level.

Henry V. Snell

Henry V. Snell, E. M.

January 18, 1951.



MAP SHOWING MAIN VEIN IN RELATION
TO MINE PROPERTY LINES

Scale 1" = 3600'

FILE COPY
SURNAME:

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION
WASHINGTON 25, D. C.

June 15, 1951

Mr. Henry V. Snell
4125 South Figueroa Street
Los Angeles 37, California

Subject: DMA-514X
Re: Exploration Loan
King Hecla Group

My dear Mr. Snell:

Receipt is acknowledged of your application and attachments of May 21, 1951 for an exploration loan under the Defense Production Act of 1950.

The application was assigned Docket Number DMA-514X and was referred to Mr. J. B. Gowen, Chief, Copper Branch on May 23, 1951.

In any future correspondence relating to your application, kindly refer to DMA-514X.

Sincerely yours,

LANDON F. STROBEL

Landon F. Strobel
Executive Secretary

LFSTROBEL:js
cc: Strobel-2
>Files
Gowen
Lyon

DMA 514

June 15, 1951

Mr. Henry V. Snell
4185 South Figueroa Street
Los Angeles 37, California

Subject: DMA-514X
Re: Exploration Loan
King Neale Group

My dear Mr. Snell:

Receipt is acknowledged of your application and attachments of May 21, 1951 for an exploration loan under the Defense Production Act of 1950.

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Landon F. Strobel
Executive Secretary

LFSTROBEL:js
cc: Strobel-2
Files
Gowen
Lyon

FILE COPY
SURNAME:

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION
WASHINGTON 25, D. C.

Mailed -7 JUN 8 1951

Re: Docket No. DMA-514X
Henry V. Snell
Copper
Exploration Aid

Mr. J. H. East, Jr.
Executive Officer
DMA Field Team, Region IV
224 New Customhouse
Denver 2, Colorado

Dear Mr. East:

The application for an exploration loan of Henry V. Snell, 4125 South Figueroa, Los Angeles 37, California, has been received by the Copper Branch after we wrote to you asking for a field team examination of this property.

For your information we are enclosing two copies of Form MF-100 and Form MF-103, the applications of Henry V. Snell. Please return these when you have completed your report.

Very truly yours,

Tom Lyon

Tom Lyon, Chairman
Coordinating Committee

Enclosures 4
JWAlt:ba 6-5-51
Approved:

Powell B. Moon

for, Bureau of Mines

Olaf N. Rove

for, Geological Survey

Copy to Executive Secretary, DMA Z
Copper Branch
Coordinating Committee
Mr. Moon

Administrator's Reading File
DMA Commodity Man
Survey Commodity Man
Bureau Commodity Man
Files

Rm 4626

Mailed JUN 8 1951

Re: Docket No. DMA-514X
Henry V. Small
Copper
Exploration Aid

Mr. J. H. Peat, Jr.
Executive Officer
DMA Field Team, Region IV
224 New Customhouse
Denver 2, Colorado

Dear Mr. Peat:

The application for an exploration loan of Henry V. Small, 4125 South Figueroa, Los Angeles 37, California, has been received by the Copper Branch after we wrote to you asking for a field team examination of this property.

For your information we are enclosing two copies of Form MF-100 and Form MF-103, the applications of Henry V. Small. Please return these when you have completed your report.

Very truly yours,

Tom Lyon

Tom Lyon, Chairman
Coordinating Committee

Enclosures 4
JWAlt:ba 6-5-51
Approved:

Lowell B. Moon

for, Bureau of Mines
Olaf N. Rove

for, Geological Survey

Copy to: Executive Secretary, DMA Z
Copper Branch
Coordinating Committee
Mr. Moon

Administrator's Reading File
DMA Commodity Man
Survey Commodity Man
Bureau Commodity Man
F i l e s

Los Angeles, Calif., May 16, 1951

Defense Minerals Administration
Copper Division
Washington 25, D. C.

Re: Docket No. DMA-514X

Dear Sirs:

Enclosed find Forms MF-100 and MF-103 covering application for exploratory loan. The original application was made on Form MSRB-146 and filed in your office as Docket No. DMA-514.

Very truly yours,

Henry V. Snell
4125 South Figueroa
Los Angeles 37, California

COPY

FILE COPY
SURNAME:

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION
WASHINGTON 25, D. C.

June 4, 1951

Re: Docket No. DMA-514

Mr. J. H. East, Jr.
224 New Customhouse
Denver 2, Colorado

Dear Mr. East:

For your information and your files we are enclosing a copy of a letter from Henry V. Snell which we inadvertently failed to send you when we wrote to you on May 16, 1951.

Very truly yours,

J. B. Gowen

J. B. Gowen, Acting Chief
Copper Branch, DMA

Enclosure

JWAlt:pf

Copy to: Executive Secretary, w.c.i.
Copper Branch, w.c.i.
Files
Mr. Lyon
Mr. Moon
Mr. Mac Loren

DMA 514

258

June 4, 1951 G. F.C.

Re: Docket No. DMA-514

Mr. J. H. East, Jr.
224 New Customhouse
Denver 2, Colorado

Dear Mr. East:

For your information and your files we are enclosing a copy of a letter from Henry V. Small which we inadvertently failed to send you when we wrote to you on May 16, 1951.

Very truly yours,

J. B. Gowen

J. B. Gowen, Acting Chief
Copper Branch, DMA

Enclosure

JWAlt:pf

Copy to: Executive Secretary, w.c.i.
Copper Branch, w.c.i.
Files
Mr. Lyon
Mr. Moon
Mr. MacLaren

Los Angeles, California, April 25, 1951.

Mr. J. B. Gowen,
Acting Chief Copper Branch, DMA
Defense Minerals Administration,
Washington 25, D. C.

Dear Mr. Gowen: Docket No. DMA-514

I have your letters of April 9th and of April 19th with exploratory loan application forms enclosed.

In my original loan application on Form NSRB-146 (now your Docket DMA-514), I brought out on page 8 of that form that I still owe $5,000.00 on my purchase obligation before I have title as sole owner of the property.

In my opinion, the very least amount that should be considered as an exploratory fund is $15,000.00. This figure may be too low as it is more or less based on contract drilling rates of some years ago on a project with which I was associated. If it were decided that the proper exploration would be through shaft and drifting therefrom the $15,000.00 of course would be entirely inadequate.

My part of the $15,000.00 would be $7,500.00, which with my obligation of $5,000.00 which I necessarily must meet would make a load more than I can carry right now. On March 21st Mr. Tom Lyon wrote me and sent me copy of "Information Release" of February 20, 1951, and in the last sentence of paragraph 5, on page 2, it states:

> "However, in exceptional cases involving the most strategic and critical metals and minerals the Secretary may depart from the matching principle in whole or in part if he finds that such action is necessary to accomplish the objectives of the program."

Based on every statement I have seen in the press, also Government releases, copper is certainly critical, and further corroborating this statement the Engineering and Mining Journal, which is accepted as top authority, in its current issue of April, 1951, states, "The supply of copper continues inadequate", and therefore it seems to me I should qualify under the paragraph quoted above and get total, or practically total, as the Government's proportion of the exploratory fund.

I think if you will review the maps and data in my file you will agree that the possibilities of my property warrant the application of the principle set out in the paragraph quoted above from the "Information Release".

Awaiting your early reply, I am,

Very truly yours,
/s/ Henry V. Snell
4125 So. Figueroa, Los Angeles 37,
California

HVS-M

COPY

Form MF-103
(Apr. 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Budget Bureau No. 42-R1035.
Approval expires 6-30-51.

APPLICATION FOR AID FOR AN EXPLORATION PROJECT PURSUANT TO MINERAL ORDER 5, UNDER DEFENSE PRODUCTION ACT OF 1950

DO NOT FILL IN THIS BLOCK

Docket No. dma - 514 X

Date received 5/21/51

Participation

HENRY V. SNELL
4125 South Figueroa Street
Los Angeles 37, California.

Name and address of applicant

Date May 16, 1951.

FILL IN THIS BLOCK

Date of application May 16, 1951

Estimated cost $20,000.00

Mineral or metal Copper and lead

Percentage of Government participation 50%

Location of mine Globe-Miami Mining District, Gila County, Arizona.

Date of filing MF-100 NSPB-146 dated 1-18-51

DMA Docket Number, if available DMA-514 X

INSTRUCTIONS

Read Mineral Order 5, Regulations Governing Government Aid in Defense Projects, before completing this application. Submit four signed copies of the application to Defense Minerals Administration, Department of the Interior, Washington 25, D. C., or to the nearest field executive officer thereof, with your name and address on each sheet of the application and all accompanying papers. If any question is inapplicable, or if you cannot answer it, so state on the form. Where the space provided for answer is insufficient, answer on a separate sheet, annex it to the application form, and refer to it in space for answer. If the application is approved, you will be presented with an exploration project contract on Form MF-200, for your signature.

THE APPLICANT

*1. Is applicant an individual, partnership, or corporation?
*2. If a partnership, state names and addresses of partners.
*3. If a corporation, state names and addresses of officers, directors, and five largest stockholders.
*4. Describe the mining and general business experience of (*a*) the applicant, and (*b*) the person or persons who will manage the project.
*5. Are you the owner or the lessee of the property?
6. If owner, state what claims, liens, or encumbrances, if any, are against the property.
7. If lessee, attach a copy of the lease and state if it is in good standing.

NOTE.—It will be necessary to procure and attach to the exploration project contract agreements of claimants, lienors, encumbrances and lessors subordinating their interests in the property to the interest of the Government under the contract.

8. Furnish current financial statement, showing assets and liabilities, and a profit and loss statement.
9. How much money is applicant prepared to invest in proposed project? Is it sufficient to pay your part of the cost of the project as detailed in question 23 of this application form, in accordance with the regulations on Government participation (Section 9 of Mineral Order 5)?

*If you have already answered these questions on MF-100, you are not required to answer the questions for this application.

16—64067-1

THE PROPERTY

10. (*a*) Give a description of the real property that will be in any way involved in the exploration project, including any existing mine or operating property.

(*b*) Give the legal description of the exact parcel, plot, or area upon which the exploration is to be conducted.

NOTE.—If both areas are the same, so state. The only obligation to repay the Government is from the net earnings from any commercial discovery made in the area specified in (*b*) above in which the exploration is to be conducted, and the expenditure of funds which may be charged as costs of the project must be limited to that area or to work necessary to perform the exploration in that area.

*11. State the present and former names of the property, if any.

*12. State, in detail, the location of the property with reference to towns, railroads, roads, shipping points, including distances and directions and kinds and conditions of roads.

*13. State source and quantity of water available for operations and its sufficiency at all seasons. State amount of power to be used, rate per hour or other cost, and source.

*14. Describe any existing useable facilities, equipment, buildings, or structure now on the property that will be devoted to the exploration work.

15. State in detail how the ore could be shipped and how and where milled.

*16. History:

(*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for any past suspensions of operations.

(*b*) State briefly the known history and production of adjoining and neighboring properties.

(*c*) Furnish any available (private) reports that may apply to this application, including results of mine examinations, recommended exploration and development, and metallurgical investigations.

*17. Production:

(*a*) If mine is in production, furnish the following information:

	Tons per day	*Grade or analysis*	*Cost per ton*	*Net value per ton*
(1) Mining				
(2) Milling				
(3) Shipped or sold				

*18. Ore or mineral reserves: (If property is or has been operating.)

(*a*) Describe the ore or mineral deposits briefly.

(*b*) Submit available maps and assay data.

(*c*) Give estimated tonnage and grade of each class of ore reserves.

19. State any conditions or circumstances regarding the property not sufficiently brought out by the foregoing questions.

THE EXPLORATION

20. For what mineral or minerals and for what types of deposits and ores will the exploration be conducted?

21. Describe briefly, but concisely, the proposed work and the estimated time required to complete it.

NOTE.—The Government will not participate in a project that will require more than 2 years to complete.

22. Furnish statement of the geological basis of the project with particular emphasis on factors leading the operator to expect the finding of commercial ore bodies. This statement should be accompanied by supporting maps such as geological maps, maps of the proposed openings and assay maps, sample lists, and other pertinent data.

THE REQUIREMENTS AND COSTS

23. Tabulate in the form of an itemized statement with a sum for each item the estimated requirements and costs of the project so that the total will give the estimated cost of the project in which the Government will participate, as follows:

(*a*) Labor, by numbers and classes (miners, muckers, millmen, etc.), with wages of each.

(*b*) Supervisors, by numbers and positions, with salaries of each.

(*c*) Cost of necessary repairs to existing facilities, structures, and buildings.

(*d*) Cost of necessary installation or construction of additional facilities, structures, and buildings.

(*e*) Cost of items of equipment, not now owned by the applicant which must be purchased for operations at a cost of $50 or more each.

(*f*) Cost of rental for equipment which the operator proposes to rent.

(*g*) Rental value of items of equipment which the operator now owns and which will be devoted to the work.

(*h*) Cost of materials and supplies, including items of equipment costing less than $50 each.

(*i*) Cost of power, water, utilities, and any other items not provided for above.

24. Furnish a time schedule of the project, stated in terms of months after project is approved, showing progress expected to be accomplished and the money expected to be spent.

CERTIFICATION

The undersigned company, and the official executing this certification on its behalf, hereby certify that the information contained in this form and accompanying papers is correct and complete to the best of their knowledge and belief.

By Henry V. Snell
(Signature of authorized official)

(Name of company)

May 16 - 1951
(Date)

Owner
(Title)

Title 18, U. S. Code (Crimes), Section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

*Same as footnote on page 1.

16—64067-1 U. S. GOVERNMENT PRINTING OFFICE

Docket DMA-514

Henry V. Snell
4125 South Figueroa Street
Los Angeles 37, California

The Applicant

1. See Docket No. DMA-514 (individual)
2. ----
3. ----
4. (a) See original filing - Docket No. DMA-514
   (b) " " " " " " " (owner)
5. Owner
6. None
7. ----
8. See original filing - Docket No. DMA-514
9. $10,000. Yes.

The Property

10. (a) See maps and reports filed in Docket No. DMA-514.
    (b) Areas same.
11. See Docket No. DMA-514.
12. See Docket DMA-514. (See Reports)
13. See " DMA-514 (See Reports)
14. None - See DMA-514.
15. Ore will be direct smelting and can be shipped by truck or rail to one or more of six or seven smelters with economical reach - three are within 40 miles.
16. See reports attached to DMA-514.
17. See Docket No. DMA-514.
18. See Docket No. DMA-514.
19. There are none to my knowledge.

The Exploration

20. See Reports with Docket No. DMA-514.
21. My idea is to explore by diamond drill, the reason for which I think can be grasped by reference to maps filed with Docket No. DMA-514. The drilling would most likely be done by contract with a drilling firm and I would estimate all could be completed within a year.
22. See geological maps filed with Docket No. DMA-514.

The Requirements and Costs

23. (a) Probably one man at about $12.50 per day. The balance of labor would belong to drill crew.
    (b) One supervisor to superintend whole operation at approximately $500 to $600 per month.
    (c) There are no existing buildings or structures. There will be some road repair, estimated $200 to $300.
    (d) Depending on selection of hole locations, there may be necessity for some road or trail building, estimated at $200.
    (e) A pickup truck may be necessary, estimate $1500.00.
    (f) ----
    (g) ----
    (h) Small tools, possibly $50.00.
    (i) No power except attached power to the drill. Water for drilling will have to be hauled short distance by truck provided for above

Henry Snell
4125 South Figueroa Street
Los Angeles 37, California

The Requirements and Costs - Cont'd

24. After completion of negotiations for contract to cover drilling, I would estimate not over six months to complete an estimated 3000 feet of hole, with a total overall expenditure of $20,000.

Form MF-100
(March 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Form approved.
Budget Bureau No. 42-R1026.

GENERAL TECHNICAL DATA FOR USE UNDER THE DEFENSE PRODUCTION ACT OF 1950

NOT TO BE FILLED IN BY APPLICANT

Docket No. dma-514X

Date received 5/21/51

HENRY V. SNELL,
4125 South Figueroa Street
Los Angeles 37, California

Based on last paragraph of Sec. 3 of MO-5 and correspondence I have had with DMA, I consider that my original filing, Docket No. DMA-514, supplies the requirements of MF-100.

Name and address of applicant

Date May 16, 1951

INSTRUCTIONS

This form is to be filed with Defense Minerals Administration, Department of the Interior, Washington 25, D. C. It should be accompanied by appropriate application form when a specific type of Government assistance is requested, in the form of (1) loan, (2) purchase contract, (3) Government guarantee of a private loan, (4) Necessity Certificate pursuant to the provisions of Sec. 124–A (Amortization Deduction) of Internal Revenue Code, 1950, (5) priorities or allocation of mining equipment, and maintenance, repair and operating supplies, and (6) other forms of Government assistance that might arise under the Act. Submit four (4) signed copies of the form and accompanying papers. Name and address should be stamped or typed on each sheet of this form and all accompanying papers. *When a question is inapplicable it should be so stated on the form.* Additional sheets may be attached in answering any questions or in supplying additional information. (IF YOU CANNOT ANSWER A QUESTION, SO STATE.) If a question is answered elsewhere indicate where answered. It is not necessary to answer it again.

GENERAL TECHNICAL DATA

Supply the following information on separate sheets, arranged, numbered, and lettered as indicated:

1. Materials produced:
   (*a*) What are the chief mine, mill, or smelter products?
   (*b*) What are the byproducts, if any?
2. Name(s) and type(s) of mine(s), mill(s), smelter(s), refinery(ies), pit(s), quarry (ies), drilling operation(s). Include old names of property, if any. Show extent of workings, including the following:
   (*a*) Linear feet of shafts.
   (*b*) Linear feet of drifts and crosscuts.
   (*c*) Linear feet of tunnels or adits.
   (*d*) Linear feet of other mine openings (explain briefly).

   Indicate whether mine is flooded or not. Describe any pumping problems. Give size or productive capacity.
3. For each operation listed above supply the following:
   (*a*) Distance and direction from nearest town and shipping point.
   (*b*) Mining district.
   (*c*) Township, Section, Range.
   (*d*) County, State.
4. (*a*) State whether or not property is now in operation, and if in operation, by whom operated.
   (*b*) Are you operating this property as:
   - ☐ Owner.
   - ☐ Lessee.
   - ☐ Contractor.
5. Number of years in production _____

   If not in production or operation, estimated date when production will begin _____
6. Experience of operators:

   Describe the mining and general business experience of (*a*) the applicant, and (*b*) the person or persons who manage the project.

History:

(*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for suspension of operation.

(*b*) State briefly the known history and production of adjoining and neighboring properties.

(*c*) Furnish any available (private) reports that may apply to this application, including results of mine examinations, recommended exploration and development, and metallurgical investigations.

8. Names and addresses of Officers, Directors, or Partners, and in addition thereto, the five largest stockholders if applicant is a corporation.

Name and Address (a)	Official Title (If officer is also director indicate by "D") (b)	Total of Annual Salary, Commissions, Bonuses, Etc., Received From Applicant and Affiliates During Last Fiscal Year (c)	Estimated Net Worth Outside of Interest in Applicant (d)	Number of Shares Held in Applicant Corporation		Life Insurance Carried for Benefit of Applicant	
				Common (e)	Preferred (f)	Amount (g)	Net Cash Surrender Value After Loans (h)
	Total		x x x x x			x x x x x	x x x x x

If more lines are needed continue on separate sheet.

9. Capital Stock Issues:

For Corporate Applicants

Item	Authorized (a)	Outstanding (b)	Par Value (c)	Number of Shares Outstanding (d)	Dividend Rate Last Paid* (e)
Common stock	$	$	$		
Preferred stock	$	$	$		

*Indicate period covered.

10. Production:

Item	Kind of Product (a)	1948 Total (b)	1949 Total (c)	1950 Total (d)	Present Average Monthly (e)
1. Quantity of product mined or quarried (Short, long, metric tons; barrels; pounds; etc.)					
2. Quantity of product processed (specify unit of measure and type of process)					
3. Quantity and grade of product sold or shipped (specify units of measure)					

11. Do you contemplate a change in the present average monthly rate of production? If so, state estimated maximum monthly production and basis of change.

12. Ore or Mineral Reserves:

(*a*) Describe the ore or mineral deposit briefly. Accompany the application by any available report on the geology and ore reserves.

(*b*) If deposit is other than placer:

(1) Submit assay plans and/or sections showing location and size of proved (measured) and probable (indicated) ore or mineral reserve.

(2) State the tonnage (indicate type of ton) and grade of each class of ore reserve, as above, and show how computed. Tabulated total ore reserve as follows:

TOTAL ORE OR MINERAL RESERVES

Ore or Mineral Reserve	Estimated Tons (a)	Metal or Mineral Content Per Ton (Grade) (b)	Gross Value Per Ton (c)	Recoverable Unit Value Per Ton (d)	Estimated Cost of Production Per Ton (e)
Measured (proved)					
Indicated (probable)					

(*c*) If placer:

(1) Give estimated total yardage and average marketable mineral content of each deposit.

(2) Submit map showing location of placer deposit and surrounding area, with all test holes or pits. Submit logs of each hole and test pit with depth and average value of each.

(3) Describe gravel, stating whether fine, medium or coarse; loose, tight, cemented, or frozen, and whether it contains stumps or boulders more than 1 foot in diameter; if so, how large, and in what proportion.

(4) Describe bedrock, giving type (granite, sandstone, shale, etc.) and state whether it is hard or soft, smooth, uneven or rough.

(5) Describe overburden, stating whether loose, tight, or cemented; fine or coarse textured; furnish estimate of average thickness and total amount.

(6) Tabulate the reserves using the form outlined above for ore or mineral reserves.

Access Roads:

Give road distances to shipping, supply and residence points, stating kind and condition of roads.

14. Water Supply:

State source and quantity of water available for operations and whether sufficient for all seasons of year.

15. Power:

State amount of power used, rate per hour, and source thereof.

16. Labor:

State number and classes (miners, muckers, millmen, etc.) of men employed during a recent representative payroll period.

17. Equipment and Facilities:

Describe present equipment on the property, including buildings. (State condition.) List major pieces of equipment now owned or controlled and in serviceable condition available for this operation.

18. Are there any particular conditions or circumstances affecting your operations that are not described above? If so, explain.

CERTIFICATION

The undersigned company, and the official executing this certification on its behalf, hereby certify that the information contained in this form and accompanying papers is correct and complete to the best of their knowledge and belief.

(Name of company)

By Henry V. Snell
(Signature of authorized official)

May 16 - 1951
(Date)

Owner
(Title)

Title 18, U. S. Code (Crimes), Section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

U. S. GOVERNMENT PRINTING OFFICE 16—63792-1

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAY 21 1951
LANDON F. STROBEL
Executive Secretary

4428

a.E.C.

May 16, 1951

Re: Docket No. DMA-714

Mr. J. H. East, Jr.
224 New Customhouse
Denver 2, Colorado

Dear Mr. East:

We are forwarding an application for a $20,000 Government participation exploration project from Mr. Henry V. Small, 4425 South Figueroa, Los Angeles 37, California. This application was originally submitted for a $200,000 operating loan. We suggested that on the basis of information submitted to us this should be an exploration project on a 50-50 basis. We have received a letter from him asking that his application be so considered.

Will you please arrange for a Field Team to look at this property and submit a report from the viewpoint of an exploration project.

Very truly yours,

Tom Lyon
PLR.

Tom Lyon, Director
Coordinating Committee

Attachments

APPROVED:

Lowell B. Moon
Member, Bureau of Mines

Member, Geological Survey

DMMaclaren:pf
Copy to: Mr. East, Executive Officer, DMA Field Team, Region IV
224 New Customhouse, Denver 2, Colorado (2)
Executive Secretary
Copper Branch
Mr. Lyon
Mr. Moon
Mr. Maclaren
Files

May 16, 1951

Re: Docket No. EMA-514

Mr. Henry W. Snell
4125 South Figueroa
Los Angeles 37, California

Dear Mr. Snell:

We are glad to have your letter of May 7, in which you ask for assurance of favorable action on a proposed 50 percent Government exploratory project for $90,000. We are recommending a field team to make an examination of your proposal. You should receive a letter from Mr. J. H. Hast, Jr., in the near future, to arrange for this examination. Until we receive the report from the field team we will not be able to give any assurance of what action may be recommended.

We were about to mail a reply to yours of April 25, in which we hoped to clarify the special consideration clause in the Information Release of February 20, 1951. This paragraph was intended to provide for changes in the various commodity percentages in the event the supply-demand situation were to change. It was not meant to suggest that different projects in a given commodity group, as copper, would receive different treatment dependent on their individual merits or needs.

Very truly yours,

Tom Lyon
OB

Tom Lyon, Chairman
Coordinating Committee

DMaclaren:gf

Copy to: J. H. Hast, Executive Officer, DMA Field Team,
2Th New Customhouse, Denver 2, Colorado (2)
Executive Secretary
Mr. Lyon
Mr. Moon
Mr. Maclaren
Files

Los Angeles, Calif., May 16, 1951.

Defense Minerals Administration,
(Copper Division)
Washington 25, D. C.

Dear Sirs: Re: Docket No. DMA-514 X

Enclosed find forms MF-100 and MF-103 covering application for exploratory loan. The original application was made on form NSPB-146 and filed in your office as Docket No. DMA-514.

Very truly yours,

Henry V. Snell

Henry V. Snell
4125 South Figueroa
Los Angeles 37, Calif.

HVS-M

Form MF-103
(April 1951)

U[illegible] DEPARTMENT OF THE INTER[illegible]R
DEFENSE MINERALS ADMINISTRATION

Budget Bureau No. 42-R1035.
Approval expires 6-30-51.

APPLICATION FOR AID FOR AN EXPLORATION PROJECT PURSUANT TO MINERAL ORDER 5, UNDER DEFENSE PRODUCTION ACT OF 1950

DO NOT FILL IN THIS BLOCK

Docket No. DMA-514 X

Date received 5/21/51

Participation

HENRY V. SNELL
4125 South Figueroa Street
Los Angeles 37, California.

Name and address of applicant

Date May 16, 1951.

FILL IN THIS BLOCK

Date of application May 16, 1951

Estimated cost $20,000.00

Mineral or metal Copper and lead

Percentage of Government participation 50%

Location of mine Globe-Miami Mining District, Gila County, Arizona.

Date of filing MF-100 NSPB-146 dated 1-18-51

DMA Docket Number, if available DMA-514 X

INSTRUCTIONS

Read Mineral Order 5, Regulations Governing Government Aid in Defense Projects, before completing this application. Submit four signed copies of the application to Defense Minerals Administration, Department of the Interior, Washington 25, D. C., or to the nearest field executive officer thereof, with your name and address on each sheet of the application and all accompanying papers. If any question is inapplicable, or if you cannot answer it, so state on the form. Where the space provided for answer is insufficient, answer on a separate sheet, annex it to the application form, and refer to it in space for answer. If the application is approved, you will be presented with an exploration project contract on Form MF-200, for your signature.

THE APPLICANT

*1. Is applicant an individual, partnership, or corporation?
*2. If a partnership, state names and addresses of partners.
*3. If a corporation, state names and addresses of officers, directors, and five largest stockholders.
*4. Describe the mining and general business experience of (*a*) the applicant, and (*b*) the person or persons who will manage the project.
*5. Are you the owner or the lessee of the property?
6. If owner, state what claims, liens, or encumbrances, if any, are against the property.
7. If lessee, attach a copy of the lease and state if it is in good standing.

NOTE.—It will be necessary to procure and attach to the exploration project contract agreements of claimants, lienors, encumbrances and lessors subordinating their interests in the property to the interest of the Government under the contract.

8. Furnish current financial statement, showing assets and liabilities, and a profit and loss statement.
9. How much money is applicant prepared to invest in proposed project? Is it sufficient to pay your part of the cost of the project as detailed in question 23 of this application form, in accordance with the regulations on Government participation (Section 9 of Mineral Order 5)?

*If you have already answered these questions on MF-100, you are not required to answer the questions for this application.

16—64067-1

THE PROPERTY

10. (*a*) Give a description of the real property that will be in any way involved in the exploration project, including any existing mine or operating property.

(*b*) Give the legal description of the exact parcel, plot, or area upon which the exploration is to be conducted.

NOTE.—If both areas are the same, so state. The only obligation to repay the Government is from the net earnings from any commercial discovery made in the area specified in (*b*) above in which the exploration is to be conducted, and the expenditure of funds which may be charged as costs of the project must be limited to that area or to work necessary to perform the exploration in that area.

*11. State the present and former names of the property, if any.

*12. State, in detail, the location of the property with reference to towns, railroads, roads, shipping points, including distances and directions and kinds and conditions of roads.

*13. State source and quantity of water available for operations and its sufficiency at all seasons.
State amount of power to be used, rate per hour or other cost, and source.

*14. Describe any existing useable facilities, equipment, buildings, or structure now on the property that will be devoted to the exploration work.

15. State in detail how the ore could be shipped and how and where milled.

*16. History:

(*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for any past suspensions of operations.

(*b*) State briefly the known history and production of adjoining and neighboring properties.

(*c*) Furnish any available (private) reports that may apply to this application, including results of mine examinations, recommended exploration and development, and metallurgical investigations.

*17. Production:

(*a*) If mine is in production, furnish the following information:

	Tons per day	*Grade or analysis*	*Cost per ton*	*Net value per ton*
(1) Mining				
(2) Milling				
(3) Shipped or sold				

*18. Ore or mineral reserves: (If property is or has been operating.)

(*a*) Describe the ore or mineral deposits briefly.

(*b*) Submit available maps and assay data.

(*c*) Give estimated tonnage and grade of each class of ore reserves.

19. State any conditions or circumstances regarding the property not sufficiently brought out by the foregoing questions.

THE EXPLORATION

20. For what mineral or minerals and for what types of deposits and ores will the exploration be conducted?

21. Describe briefly, but concisely, the proposed work and the estimated time required to complete it.

NOTE.—The Government will not participate in a project that will require more than 2 years to complete.

22. Furnish statement of the geological basis of the project with particular emphasis on factors leading the operator to expect the finding of commercial ore bodies. This statement should be accompanied by supporting maps such as geological maps, maps of the proposed openings and assay maps, sample lists, and other pertinent data.

THE REQUIREMENTS AND COSTS

23. Tabulate in the form of an itemized statement with a sum for each item the estimated requirements and costs of the project so that the total will give the estimated cost of the project in which the Government will participate, as follows:

(*a*) Labor, by numbers and classes (miners, muckers, millmen, etc.), with wages of each.

(*b*) Supervisors, by numbers and positions, with salaries of each.

(*c*) Cost of necessary repairs to existing facilities, structures, and buildings.

(*d*) Cost of necessary installation or construction of additional facilities, structures, and buildings.

(*e*) Cost of items of equipment, not now owned by the applicant which must be purchased for operations at a cost of $50 or more each.

(*f*) Cost of rental for equipment which the operator proposes to rent.

(*g*) Rental value of items of equipment which the operator now owns and which will be devoted to the work.

(*h*) Cost of materials and supplies, including items of equipment costing less than $50 each.

(*i*) Cost of power, water, utilities, and any other items not provided for above.

24. Furnish a time schedule of the project, stated in terms of months after project is approved, showing progress expected to be accomplished and the money expected to be spent.

CERTIFICATION

The undersigned company, and the official executing this certification on its behalf, hereby certify that the information contained in this form and accompanying papers is correct and complete to the best of their knowledge and belief.

(Name of company)	By Henry V. Snell (Signature of authorized official)
May 16-1951 (Date)	Owner (Title)

Title 18, U. S. Code (Crimes), Section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

*Same as footnote on page 1.

16—64067-1 U. S. GOVERNMENT PRINTING OFFICE

Docket DM[illegible]514

Henry V. Snell
4125 South Figue[illegible] Street
Los Angeles 37, [illegible]lifornia

The Applicant

1. See Docket No. DMA-514 (individual)
2. ----
3. ----
4. (a) See original filing - Docket No. DMA-514
   (b) " " " " " " " (owner)
5. Owner
6. None
7. ----
8. See original filing - Docket No. DMA-514
9. $10,000. Yes.

The Property

10. (a) See maps and reports filed in Docket No. DMA-514.
    (b) Areas same.
11. See Docket No. DMA-514.
12. See Docket DMA-514. (See Reports)
13. See " DMA-514 (See Reports)
14. None - See DMA-514.
15. Ore will be direct smelting and can be shipped by truck or rail to one or more of six or seven smelters with economical reach - three are within 40 miles.
16. See reports attached to DMA-514.
17. See Docket No. DMA-514.
18. See Docket No. DMA-514.
19. There are none to my knowledge.

The Exploration

20. See Reports with Docket No. DMA-514.
21. My idea is to explore by diamond drill, the reason for which I think can be grasped by reference to maps filed with Docket No. DMA-514. The drilling would most likely be done by contract with a drilling firm and I would estimate all could be completed within a year.
22. See geological maps filed with Docket No. DMA-514.

The Requirements and Costs

23. (a) Probably one man at about $12.50 per day. The balance of labor would belong to drill crew.
    (b) One supervisor to superintend whole operation at approximately $500 to $600 per month.
    (c) There are no existing buildings or structures. There will be some road repair, estimated $200 to $300.
    (d) Depending on selection of hole locations, there may be necessity for some road or trail building, estimated at $200.
    (e) A pickup truck may be necessary, estimate $1500.00.
    (f) ----
    (g) ----
    (h) Small tools, possibly $50.00.
    (i) No power except attached power to the drill. Water for drilling will have to be hauled short distance by truck provided for above

Henry V. [illegible]nell
4125 South Figueroa Street
Los Angeles 37, California

The Requirements and Costs - Cont'd

24. After completion of negotiations for contract to cover drilling, I would estimate not over six months to complete an estimated 3000 feet of hole, with a total overall expenditure of $20,000.

Form MF-100
(March 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Form approved.
Budget Bureau No. 42-R1026.

GENERAL TECHNICAL DATA
FOR USE UNDER THE
DEFENSE PRODUCTION ACT OF 1950

NOT TO BE FILLED IN BY APPLICANT

Docket No. DMA-514X

Date received 5/21/51

HENRY V. SNELL,
4125 South Figueroa Street
Los Angeles 37, California

Based on last paragraph of Sec. 3 of MO-5 and correspondence I have had with DMA, I consider that my original filing, Docket No. DMA-514, supplies the requirements of MF-100.

Name and address of applicant

Date May 16, 195

INSTRUCTIONS

This form is to be filed with Defense Minerals Administration, Department of the Interior, Washington 25, D. C. It should be accompanied by appropriate application form when a specific type of Government assistance is requested, in the form of (1) loan, (2) purchase contract, (3) Government guarantee of a private loan, (4) Necessity Certificate pursuant to the provisions of Sec. 124–A (Amortization Deduction) of Internal Revenue Code, 1950, (5) priorities or allocation of mining equipment, and maintenance, repair and operating supplies, and (6) other forms of Government assistance that might arise under the Act. Submit four (4) signed copies of the form and accompanying papers. Name and address should be stamped or typed on each sheet of this form and all accompanying papers. *When a question is inapplicable it should be so stated on the form.* Additional sheets may be attached in answering any questions or in supplying additional information. (IF YOU CANNOT ANSWER A QUESTION, SO STATE.) If a question is answered elsewhere indicate where answered. It is not necessary to answer it again.

GENERAL TECHNICAL DATA

Supply the following information on separate sheets, arranged, numbered, and lettered as indicated:

1. Materials produced:
   (*a*) What are the chief mine, mill, or smelter products?
   (*b*) What are the byproducts, if any?
2. Name(s) and type(s) of mine(s), mill(s), smelter(s), refinery(ies), pit(s), quarry (ies), drilling operation(s). Include old names of property, if any. Show extent of workings, including the following:
   (*a*) Linear feet of shafts.
   (*b*) Linear feet of drifts and crosscuts.
   (*c*) Linear feet of tunnels or adits.
   (*d*) Linear feet of other mine openings (explain briefly).

   Indicate whether mine is flooded or not. Describe any pumping problems. Give size or productive capacity.
3. For each operation listed above supply the following:
   (*a*) Distance and direction from nearest town and shipping point.
   (*b*) Mining district.
   (*c*) Township, Section, Range.
   (*d*) County, State.
4. (*a*) State whether or not property is now in operation, and if in operation, by whom operated.
   (*b*) Are you operating this property as:
   - ☐ Owner.
   - ☐ Lessee.
   - ☐ Contractor.
5. Number of years in production _____

   If not in production or operation, estimated date when production will begin _____
6. Experience of operators:

   Describe the mining and general business experience of (*a*) the applicant, and (*b*) the person or persons who manage the project.
7. History:
   (*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for suspension of operation.
   (*b*) State briefly the known history and production of adjoining and neighboring properties.
   (*c*) Furnish any available (private) reports that may apply to this application, including results of mine examinations, recommended exploration and development, and metallurgical investigations.

8. Names and addresses of Officers, Directors, or Partners, and in addition thereto, the five largest stockholders if applicant is a corporation.

Name and Address (a)	Official Title (If officer is also director indicate by "D") (b)	Total of Annual Salary, Commissions, Bonuses, Etc., Received From Applicant and Affiliates During Last Fiscal Year (c)	Estimated Net Worth Outside of Interest in Applicant (d)	Number of Shares Held in Applicant Corporation		Life Insurance Carried for Benefit of Applicant	
				Common (e)	Preferred (f)	Amount (g)	Net Cash Surrender Value After Loans (h)
	Total		x x x x x			x x x x x	x x x x x

If more lines are needed continue on separate sheet.

9. Capital Stock Issues:

For Corporate Applicants

Item	Authorized (a)	Outstanding (b)	Par Value (c)	Number of Shares Outstanding (d)	Dividend Rate Last Paid* (e)
Common stock	$	$	$		
Preferred stock	$	$	$		

*Indicate period covered.

10. Production:

Item	Kind of Product (a)	1948 Total (b)	1949 Total (c)	1950 Total (d)	Present Average Monthly (e)
1. Quantity of product mined or quarried (Short, long, metric tons; barrels; pounds; etc.)					
2. Quantity of product processed (specify unit of measure and type of process)					
3. Quantity and grade of product sold or shipped (specify units of measure)					

11. Do you contemplate a change in the present average monthly rate of production? If so, state estimated maximum monthly production and basis of change.

12. Ore or Mineral Reserves:

(a) Describe the ore or mineral deposit briefly. Accompany the application by any available report on the geology and ore reserves.

(*b*) If deposit is other than placer:

(1) Submit assay plans and/or sections showing location and size of proved (measured) and probable (indicated) ore or mineral reserve.

(2) State the tonnage (indicate type of ton) and grade of each class of ore reserve, as above, and show how computed. Tabulated total ore reserve as follows:

TOTAL ORE OR MINERAL RESERVES

Ore or Mineral Reserve	Estimated Tons (a)	Metal or Mineral Content Per Ton (Grade) (b)	Gross Value Per Ton (c)	Recoverable Unit Value Per Ton (d)	Estimated Cost of Production Per Ton (e)
Measured (proved)					
Indicated (probable)					

(*c*) If placer:

(1) Give estimated total yardage and average marketable mineral content of each deposit.

(2) Submit map showing location of placer deposit and surrounding area, with all test holes or pits. Submit logs of each hole and test pit with depth and average value of each.

(3) Describe gravel, stating whether fine, medium or coarse; loose, tight, cemented, or frozen, and whether it contains stumps or boulders more than 1 foot in diameter; if so, how large, and in what proportion.

(4) Describe bedrock, giving type (granite, sandstone, shale, etc.) and state whether it is hard or soft, smooth, uneven or rough.

(5) Describe overburden, stating whether loose, tight, or cemented; fine or coarse textured; furnish estimate of average thickness and total amount.

(6) Tabulate the reserves using the form outlined above for ore or mineral reserves.

13. Access Roads:

Give road distances to shipping, supply and residence points, stating kind and condition of roads.

14. Water Supply:

State source and quantity of water available for operations and whether sufficient for all seasons of year.

15. Power:

State amount of power used, rate per hour, and source thereof.

16. Labor:

State number and classes (miners, muckers, millmen, etc.) of men employed during a recent representative payroll period.

17. Equipment and Facilities:

Describe present equipment on the property, including buildings. (State condition.) List major pieces of equipment now owned or controlled and in serviceable condition available for this operation.

18. Are there any particular conditions or circumstances affecting your operations that are not described above? If so, explain.

CERTIFICATION

The undersigned company, and the official executing this certification on its behalf, hereby certify that the information contained in this form and accompanying papers is correct and complete to the best of their knowledge and belief.

(Name of company)

By Henry V. Snell
(Signature of authorized official)

May 16 - 1951
(Date)

Owner
(Title)

Title 18, U. S. Code (Crimes), Section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

U. S. GOVERNMENT PRINTING OFFICE 16—63792-1

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAY 2 1 1951
LANDON F. STROBEL
Executive Secretary

Los Angeles, Calif., May 16, 1951.

Defense Minerals Administration,
(Copper Division)
Washington 25, D. C.

Dear Sirs: Re: Docket No. DMA-514 X

Enclosed find forms MF-100 and MF-103 covering application for exploratory loan. The original application was made on form NSPB-146 and filed in your office as Docket No. DMA-514.

Very truly yours,

Henry V. Snell

Henry V. Snell
4125 South Figueroa
Los Angeles 37, Calif.

HVS-M

Owner 514 (Copper)

856

Form MF-103
(April 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Budget Bureau No. 42-R1035.
Approval expires 6-30-51.

APPLICATION FOR AID FOR AN EXPLORATION PROJECT PURSUANT TO MINERAL ORDER 5, UNDER DEFENSE PRODUCTION ACT OF 1950

DO NOT FILL IN THIS BLOCK

Docket No. DMA-514X

Date received 5/21/51

Participation

MARY V. [illegible]
4125 South Figueroa Street
Los Angeles 37, California.

Name and address of applicant

Date May 16, 1951.

FILL IN THIS BLOCK

Date of application May 16, 1951

Estimated cost $20,000.00

Mineral or metal Copper and lead

Percentage of Government participation 60%

Location of mine Globe-Miami Mining District, Gila County, Arizona.

Date of filing MF-100 [illegible]-140 dated 1-18-51

DMA Docket Number, if available DMA-514 X

INSTRUCTIONS

Read Mineral Order 5, Regulations Governing Government Aid in Defense Projects, before completing this application. Submit four signed copies of the application to Defense Minerals Administration, Department of the Interior, Washington 25, D. C., or to the nearest field executive officer thereof, with your name and address on each sheet of the application and all accompanying papers. If any question is inapplicable, or if you cannot answer it, so state on the form. Where the space provided for answer is insufficient, answer on a separate sheet, annex it to the application form, and refer to it in space for answer. If the application is approved, you will be presented with an exploration project contract on Form MF-200, for your signature.

THE APPLICANT

*1. Is applicant an individual, partnership, or corporation?
*2. If a partnership, state names and addresses of partners.
*3. If a corporation, state names and addresses of officers, directors, and five largest stockholders.
*4. Describe the mining and general business experience of (*a*) the applicant, and (*b*) the person or persons who will manage the project.
*5. Are you the owner or the lessee of the property?
6. If owner, state what claims, liens, or encumbrances, if any, are against the property.
7. If lessee, attach a copy of the lease and state if it is in good standing.

NOTE.—It will be necessary to procure and attach to the exploration project contract agreements of claimants, lienors, encumbrances and lessors subordinating their interests in the property to the interest of the Government under the contract.

8. Furnish current financial statement, showing assets and liabilities, and a profit and loss statement.
9. How much money is applicant prepared to invest in proposed project? Is it sufficient to pay your part of the cost of the project as detailed in question 23 of this application form, in accordance with the regulations on Government participation (Section 9 of Mineral Order 5)?

*If you have already answered these questions on MF-100, you are not required to answer the questions for this application.

16—64067-1

THE PROPERTY

10. (*a*) Give a description of the real property that will be in any way involved in the exploration project, including any existing mine or operating property.

(*b*) Give the legal description of the exact parcel, plot, or area upon which the exploration is to be conducted.

NOTE.—If both areas are the same, so state. The only obligation to repay the Government is from the net earnings from any commercial discovery made in the area specified in (*b*) above in which the exploration is to be conducted, and the expenditure of funds which may be charged as costs of the project must be limited to that area or to work necessary to perform the exploration in that area.

*11. State the present and former names of the property, if any.

*12. State, in detail, the location of the property with reference to towns, railroads, roads, shipping points, including distances and directions and kinds and conditions of roads.

*13. State source and quantity of water available for operations and its sufficiency at all seasons. State amount of power to be used, rate per hour or other cost, and source.

*14. Describe any existing useable facilities, equipment, buildings, or structure now on the property that will be devoted to the exploration work.

15. State in detail how the ore could be shipped and how and where milled.

*16. History:

(*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for any past suspensions of operations.

(*b*) State briefly the known history and production of adjoining and neighboring properties.

(*c*) Furnish any available (private) reports that may apply to this application, including results of mine examinations, recommended exploration and development, and metallurgical investigations.

*17. Production:

(*a*) If mine is in production, furnish the following information:

	Tons per day	*Grade or analysis*	*Cost per ton*	*Net value per ton*
(1) Mining				
(2) Milling				
(3) Shipped or sold				

*18. Ore or mineral reserves: (If property is or has been operating.)

(*a*) Describe the ore or mineral deposits briefly.

(*b*) Submit available maps and assay data.

(*c*) Give estimated tonnage and grade of each class of ore reserves.

19. State any conditions or circumstances regarding the property not sufficiently brought out by the foregoing questions.

THE EXPLORATION

20. For what mineral or minerals and for what types of deposits and ores will the exploration be conducted?

21. Describe briefly, but concisely, the proposed work and the estimated time required to complete it.

NOTE.—The Government will not participate in a project that will require more than 2 years to complete.

22. Furnish statement of the geological basis of the project with particular emphasis on factors leading the operator to expect the finding of commercial ore bodies. This statement should be accompanied by supporting maps such as geological maps, maps of the proposed openings and assay maps, sample lists, and other pertinent data.

THE REQUIREMENTS AND COSTS

23. Tabulate in the form of an itemized statement with a sum for each item the estimated requirements and costs of the project so that the total will give the estimated cost of the project in which the Government will participate, as follows:

(*a*) Labor, by numbers and classes (miners, muckers, millmen, etc.), with wages of each.

(*b*) Supervisors, by numbers and positions, with salaries of each.

(*c*) Cost of necessary repairs to existing facilities, structures, and buildings.

(*d*) Cost of necessary installation or construction of additional facilities, structures, and buildings.

(*e*) Cost of items of equipment, not now owned by the applicant which must be purchased for operations at a cost of $50 or more each.

(*f*) Cost of rental for equipment which the operator proposes to rent.

(*g*) Rental value of items of equipment which the operator now owns and which will be devoted to the work.

(*h*) Cost of materials and supplies, including items of equipment costing less than $50 each.

(*i*) Cost of power, water, utilities, and any other items not provided for above.

24. Furnish a time schedule of the project, stated in terms of months after project is approved, showing progress expected to be accomplished and the money expected to be spent.

CERTIFICATION

The undersigned company, and the official executing this certification on its behalf, hereby certify that the information contained in this form and accompanying papers is correct and complete to the best of their knowledge and belief.

_____ (Name of company)

By Henry V. Snell (Signature of authorized official)

May 16 - 1951 (Date)

Owner (Title)

Title 18, U. S. Code (Crimes), Section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

*Same as footnote on page 1.

16—64067-1 U. S. GOVERNMENT PRINTING OFFICE

Docket DM[redacted]514

Henry V. Snell
4125 South Figue[redacted]a Street
Los Angeles 37, California

The Applicant

1. See Docket No. DMA-514 (individual)
2. ----
3. ----
4. (a) See original filing - Docket No. DMA-514
   (b) " " " " " " " (owner)
5. Owner
6. None
7. ----
8. See original filing - Docket No. DMA-514
9. $10,000. Yes.

The Property

10. (a) See maps and reports filed in Docket No. DMA-514.
    (b) Areas same.
11. See Docket No. DMA-514.
12. See Docket DMA-514. (See Reports)
13. See " DMA-514 (See Reports)
14. None - See DMA-514.
15. Ore will be direct smelting and can be shipped by truck or rail to one or more of six or seven smelters with economical reach - three are within 40 miles.
16. See reports attached to DMA-514.
17. See Docket No. DMA-514.
18. See Docket No. DMA-514.
19. There are none to my knowledge.

The Exploration

20. See Reports with Docket No. DMA-514.
21. My idea is to explore by diamond drill, the reason for which I think can be grasped by reference to maps filed with Docket No. DMA-514. The drilling would most likely be done by contract with a drilling firm and I would estimate all could be completed within a year.
22. See geological maps filed with Docket No. DMA-514.

The Requirements and Costs

23. (a) Probably one man at about $12.50 per day. The balance of labor would belong to drill crew.
    (b) One supervisor to superintend whole operation at approximately $500 to $600 per month.
    (c) There are no existing buildings or structures. There will be some road repair, estimated $200 to $300.
    (d) Depending on selection of hole locations, there may be necessity for some road or trail building, estimated at $200.
    (e) A pickup truck may be necessary, estimate $1500.00.
    (f) ----
    (g) ----
    (h) Small tools, possibly $50.00.
    (i) No power except attached power to the drill. Water for drilling will have to be hauled short distance by truck provided for above

Henry V. [illegible]nell
4125 South Figueroa Street
Los Angeles 37, California

The Requirements and Costs - Cont'd

24. After completion of negotiations for contract to cover drilling, I would estimate not over six months to complete an estimated 3000 feet of hole, with a total overall expenditure of $20,000.

Form MF-103
(April 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Budget Bureau No. 42-R1035.
Approval expires 6-30-51.

APPLICATION FOR AID FOR AN EXPLORATION PROJECT PURSUANT TO MINERAL ORDER 5, UNDER DEFENSE PRODUCTION ACT OF 1950

DO NOT FILL IN THIS BLOCK

Docket No. DMA-514X

Date received 5/21/51

Participation

HARRY V. [illegible]
4125 South Figueroa Street
Los Angeles 37, California.

Name and address of applicant

Date May 16, 1951.

FILL IN THIS BLOCK

Date of application May 16, 1951

Estimated cost $20,000.00

Mineral or metal Copper and lead

Percentage of Government participation 50%

Location of mine Globe-Miami Mining District, Gila County, Arizona.

Date of filing MF-100 [illegible]-140 dated 1-18-51

DMA Docket Number, if available DMA-514 X

INSTRUCTIONS

Read Mineral Order 5, Regulations Governing Government Aid in Defense Projects, before completing this application. Submit four signed copies of the application to Defense Minerals Administration, Department of the Interior, Washington 25, D. C., or to the nearest field executive officer thereof, with your name and address on each sheet of the application and all accompanying papers. If any question is inapplicable, or if you cannot answer it, so state on the form. Where the space provided for answer is insufficient, answer on a separate sheet, annex it to the application form, and refer to it in space for answer. If the application is approved, you will be presented with an exploration project contract on Form MF-200, for your signature.

THE APPLICANT

*1. Is applicant an individual, partnership, or corporation?
*2. If a partnership, state names and addresses of partners.
*3. If a corporation, state names and addresses of officers, directors, and five largest stockholders.
*4. Describe the mining and general business experience of (*a*) the applicant, and (*b*) the person or persons who will manage the project.
*5. Are you the owner or the lessee of the property?
6. If owner, state what claims, liens, or encumbrances, if any, are against the property.
7. If lessee, attach a copy of the lease and state if it is in good standing.

NOTE.—It will be necessary to procure and attach to the exploration project contract agreements of claimants, lienors, encumbrances and lessors subordinating their interests in the property to the interest of the Government under the contract.

8. Furnish current financial statement, showing assets and liabilities, and a profit and loss statement.
9. How much money is applicant prepared to invest in proposed project? Is it sufficient to pay your part of the cost of the project as detailed in question 23 of this application form, in accordance with the regulations on Government participation (Section 9 of Mineral Order 5)?

*If you have already answered these questions on MF-100, you are not required to answer the questions for this application.

16—64067-1

THE PROPERTY

10. (*a*) Give a description of the real property that will be in any way involved in the exploration project, including any existing mine or operating property.

(*b*) Give the legal description of the exact parcel, plot, or area upon which the exploration is to be conducted.

NOTE.—If both areas are the same, so state. The only obligation to repay the Government is from the net earnings from any commercial discovery made in the area specified in (*b*) above in which the exploration is to be conducted, and the expenditure of funds which may be charged as costs of the project must be limited to that area or to work necessary to perform the exploration in that area.

*11. State the present and former names of the property, if any.

*12. State, in detail, the location of the property with reference to towns, railroads, roads, shipping points, including distances and directions and kinds and conditions of roads.

*13. State source and quantity of water available for operations and its sufficiency at all seasons. State amount of power to be used, rate per hour or other cost, and source.

*14. Describe any existing useable facilities, equipment, buildings, or structure now on the property that will be devoted to the exploration work.

15. State in detail how the ore could be shipped and how and where milled.

*16. History:

(*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for any past suspensions of operations.

(*b*) State briefly the known history and production of adjoining and neighboring properties.

(*c*) Furnish any available (private) reports that may apply to this application, including results of mine examinations, recommended exploration and development, and metallurgical investigations.

*17. Production:

(*a*) If mine is in production, furnish the following information:

	Tons per day	*Grade or analysis*	*Cost per ton*	*Net value per ton*
(1) Mining				
(2) Milling				
(3) Shipped or sold				

*18. Ore or mineral reserves: (If property is or has been operating.)

(*a*) Describe the ore or mineral deposits briefly.

(*b*) Submit available maps and assay data.

(*c*) Give estimated tonnage and grade of each class of ore reserves.

19. State any conditions or circumstances regarding the property not sufficiently brought out by the foregoing questions.

THE EXPLORATION

20. For what mineral or minerals and for what types of deposits and ores will the exploration be conducted?

21. Describe briefly, but concisely, the proposed work and the estimated time required to complete it.

NOTE.—The Government will not participate in a project that will require more than 2 years to complete.

22. Furnish statement of the geological basis of the project with particular emphasis on factors leading the operator to expect the finding of commercial ore bodies. This statement should be accompanied by supporting maps such as geological maps, maps of the proposed openings and assay maps, sample lists, and other pertinent data.

THE REQUIREMENTS AND COSTS

23. Tabulate in the form of an itemized statement with a sum for each item the estimated requirements and costs of the project so that the total will give the estimated cost of the project in which the Government will participate, as follows:

(*a*) Labor, by numbers and classes (miners, muckers, millmen, etc.), with wages of each.

(*b*) Supervisors, by numbers and positions, with salaries of each.

(*c*) Cost of necessary repairs to existing facilities, structures, and buildings.

(*d*) Cost of necessary installation or construction of additional facilities, structures, and buildings.

(*e*) Cost of items of equipment, not now owned by the applicant which must be purchased for operations at a cost of $50 or more each.

(*f*) Cost of rental for equipment which the operator proposes to rent.

(*g*) Rental value of items of equipment which the operator now owns and which will be devoted to the work.

(*h*) Cost of materials and supplies, including items of equipment costing less than $50 each.

(*i*) Cost of power, water, utilities, and any other items not provided for above.

24. Furnish a time schedule of the project, stated in terms of months after project is approved, showing progress expected to be accomplished and the money expected to be spent.

CERTIFICATION

The undersigned company, and the official executing this certification on its behalf, hereby certify that the information contained in this form and accompanying papers is correct and complete to the best of their knowledge and belief.

(Name of company)	By Henry V. Snell (Signature of authorized official)
May 16 - 1951 (Date)	Owner (Title)

Title 18, U. S. Code (Crimes), Section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

*Same as footnote on page 1.

16—64067-1 U. S. GOVERNMENT PRINTING OFFICE

Docket DM[redacted]514

Henry V. Snell
4125 South Figue[redacted]a Street
Los Angeles 37, California

The Applicant

1. See Docket No. DMA-514 (individual)
2. ----
3. ----
4. (a) See original filing - Docket No. DMA-514
   (b) " " " " " " " (owner)
5. Owner
6. None
7. ----
8. See original filing - Docket No. DMA-514
9. $10,000. Yes.

The Property

10. (a) See maps and reports filed in Docket No. DMA-514.
    (b) Areas same.
11. See Docket No. DMA-514.
12. See Docket DMA-514. (See Reports)
13. See " DMA-514 (See Reports)
14. None - See DMA-514.
15. Ore will be direct smelting and can be shipped by truck or rail to one or more of six or seven smelters with economical reach - three are within 40 miles.
16. See reports attached to DMA-514.
17. See Docket No. DMA-514.
18. See Docket No. DMA-514.
19. There are none to my knowledge.

The Exploration

20. See Reports with Docket No. DMA-514.
21. My idea is to explore by diamond drill, the reason for which I think can be grasped by reference to maps filed with Docket No. DMA-514. The drilling would most likely be done by contract with a drilling firm and I would estimate all could be completed within a year.
22. See geological maps filed with Docket No. DMA-514.

The Requirements and Costs

23. (a) Probably one man at about $12.50 per day. The balance of labor would belong to drill crew.
    (b) One supervisor to superintend whole operation at approximately $500 to $600 per month.
    (c) There are no existing buildings or structures. There will be some road repair, estimated $200 to $300.
    (d) Depending on selection of hole locations, there may be necessity for some road or trail building, estimated at $200.
    (e) A pickup truck may be necessary, estimate $1500.00.
    (f) ----
    (g) ----
    (h) Small tools, possibly $50.00.
    (i) No power except attached power to the drill. Water for drilling will have to be hauled short distance by truck provided for above

Henry V. [illegible]nell
4125 South Figueroa Street
Los Angeles 37, California

The Requirements and Costs - Cont'd

24. After completion of negotiations for contract to cover drilling, I would estimate not over six months to complete an estimated 3000 feet of hole, with a total overall expenditure of $20,000.

Form MF-100
(March 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Form approved.
Budget Bureau No. 42-R1026.

GENERAL TECHNICAL DATA
FOR USE UNDER THE
DEFENSE PRODUCTION ACT OF 1950

NOT TO BE FILLED IN BY APPLICANT

Docket No. Dma-514X

Date received 5/21/51

Name and address of applicant

HENRY V. [illegible],
4125 South Figueroa Street
Los Angeles 37, California

Based on last paragraph of Sec. 3 of DO-5 and correspondence I have had with DMA, I consider that my original filing, Docket No. DMA-514, supplies the requirements of MP-100.

Date May 16, 1951

INSTRUCTIONS

This form is to be filed with Defense Minerals Administration, Department of the Interior, Washington 25, D. C. It should be accompanied by appropriate application form when a specific type of Government assistance is requested, in the form of (1) loan, (2) purchase contract, (3) Government guarantee of a private loan, (4) Necessity Certificate pursuant to the provisions of Sec. 124–A (Amortization Deduction) of Internal Revenue Code, 1950, (5) priorities or allocation of mining equipment, and maintenance, repair and operating supplies, and (6) other forms of Government assistance that might arise under the Act. Submit four (4) signed copies of the form and accompanying papers. Name and address should be stamped or typed on each sheet of this form and all accompanying papers. *When a question is inapplicable it should be so stated on the form.* Additional sheets may be attached in answering any questions or in supplying additional information. (IF YOU CANNOT ANSWER A QUESTION, SO STATE.) If a question is answered elsewhere indicate where answered. It is not necessary to answer it again.

GENERAL TECHNICAL DATA

Supply the following information on separate sheets, arranged, numbered, and lettered as indicated:

1. Materials produced:
   (*a*) What are the chief mine, mill, or smelter products?
   (*b*) What are the byproducts, if any?
2. Name(s) and type(s) of mine(s), mill(s), smelter(s), refinery(ies), pit(s), quarry (ies), drilling operation(s). Include old names of property, if any. Show extent of workings, including the following:
   (*a*) Linear feet of shafts.
   (*b*) Linear feet of drifts and crosscuts.
   (*c*) Linear feet of tunnels or adits.
   (*d*) Linear feet of other mine openings (explain briefly).

   Indicate whether mine is flooded or not. Describe any pumping problems. Give size or productive capacity.
3. For each operation listed above supply the following:
   (*a*) Distance and direction from nearest town and shipping point.
   (*b*) Mining district.
   (*c*) Township, Section, Range.
   (*d*) County, State.
4. (*a*) State whether or not property is now in operation, and if in operation, by whom operated.
   (*b*) Are you operating this property as:
   - ☐ Owner.
   - ☐ Lessee.
   - ☐ Contractor.
5. Number of years in production _____

   If not in production or operation, estimated date when production will begin _____
6. Experience of operators:

   Describe the mining and general business experience of (*a*) the applicant, and (*b*) the person or persons who manage the project.
7. History:
   (*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for suspension of operation.
   (*b*) State briefly the known history and production of adjoining and neighboring properties.
   (*c*) Furnish any available (private) reports that may apply to this application, including results of mine examinations, recommended exploration and development, and metallurgical investigations.

8. Names and addresses of Officers, Directors, or Partners, and in addition thereto, the five largest stockholders if applicant is a corporation.

Name and Address	Official Title (If officer is also director indicate by "D")	Total of Annual Salary, Commissions, Bonuses, Etc., Received From Applicant and Affiliates During Last Fiscal Year	Estimated Net Worth Outside of Interest in Applicant	Number of Shares Held in Applicant Corporation		Life Insurance Carried for Benefit of Applicant	
				Common	Preferred	Amount	Net Cash Surrender Value After Loans
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
	Total		x x x x x			x x x x x	x x x x x

If more lines are needed continue on separate sheet.

9. Capital Stock Issues:

For Corporate Applicants

Item	Authorized (a)	Outstanding (b)	Par Value (c)	Number of Shares Outstanding (d)	Dividend Rate Last Paid* (e)
Common stock	$	$	$		
Preferred stock	$	$	$		

*Indicate period covered.

10. Production:

Item	Kind of Product (a)	1948 Total (b)	1949 Total (c)	1950 Total (d)	Present Average Monthly (e)
1. Quantity of product mined or quarried (Short, long, metric tons; barrels; pounds; etc.)					
2. Quantity of product processed (specify unit of measure and type of process)					
3. Quantity and grade of product sold or shipped (specify units of measure)					

11. Do you contemplate a change in the present average monthly rate of production? If so, state estimated maximum monthly production and basis of change.

12. Ore or Mineral Reserves:

(a) Describe the ore or mineral deposit briefly. Accompany the application by any available report on the geology and ore reserves.

(*b*) If deposit is other than placer:

(1) Submit assay plans and/or sections showing location and size of proved (measured) and probable (indicated) ore or mineral reserve.

(2) State the tonnage (indicate type of ton) and grade of each class of ore reserve, as above, and show how computed. Tabulated total ore reserve as follows:

TOTAL ORE OR MINERAL RESERVES

Ore or Mineral Reserve	Estimated Tons (a)	Metal or Mineral Content Per Ton (Grade) (b)	Gross Value Per Ton (c)	Recoverable Unit Value Per Ton (d)	Estimated Cost of Production Per Ton (e)
Measured (proved)					
Indicated (probable)					

(*c*) If placer:

(1) Give estimated total yardage and average marketable mineral content of each deposit.

(2) Submit map showing location of placer deposit and surrounding area, with all test holes or pits. Submit logs of each hole and test pit with depth and average value of each.

(3) Describe gravel, stating whether fine, medium or coarse; loose, tight, cemented, or frozen, and whether it contains stumps or boulders more than 1 foot in diameter; if so, how large, and in what proportion.

(4) Describe bedrock, giving type (granite, sandstone, shale, etc.) and state whether it is hard or soft, smooth, uneven or rough.

(5) Describe overburden, stating whether loose, tight, or cemented; fine or coarse textured; furnish estimate of average thickness and total amount.

(6) Tabulate the reserves using the form outlined above for ore or mineral reserves.

13. Access Roads:

Give road distances to shipping, supply and residence points, stating kind and condition of roads.

14. Water Supply:

State source and quantity of water available for operations and whether sufficient for all seasons of year.

15. Power:

State amount of power used, rate per hour, and source thereof.

16. Labor:

State number and classes (miners, muckers, millmen, etc.) of men employed during a recent representative payroll period.

17. Equipment and Facilities:

Describe present equipment on the property, including buildings. (State condition.) List major pieces of equipment now owned or controlled and in serviceable condition available for this operation.

18. Are there any particular conditions or circumstances affecting your operations that are not described above? If so, explain.

CERTIFICATION

The undersigned company, and the official executing this certification on its behalf, hereby certify that the information contained in this form and accompanying papers is correct and complete to the best of their knowledge and belief.

(Name of company)

By Henry V. Snell
(Signature of authorized official)

May 16 - 1951
(Date)

Owner
(Title)

Title 18, U. S. Code (Crimes), Section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

U. S. GOVERNMENT PRINTING OFFICE 16—63792-1

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAY 2 1 1951
LANDON F. STROBEL
Executive Secretary

Los Angeles, Calif., May 16, 1951.

Defense Minerals Administration,
(Copper Division)
Washington 25, D. C.

Dear Sirs: Re: Docket No. DMA-514

Enclosed find forms MF-100 and MF-103 covering application for exploratory loan. The original application was made on form NSPB-146 and filed in your office as Docket No. DMA-514.

Very truly yours,

Henry V. Snell

Henry V. Snell
4125 South Figueroa
Los Angeles 37, Calif.

HVS-M

Form MF-103
(April 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Budget Bureau No. 42-R1035.
Approval expires 6-30-51.

APPLICATION FOR AID FOR AN EXPLORATION PROJECT PURSUANT TO MINERAL ORDER 5, UNDER DEFENSE PRODUCTION ACT OF 1950

DO NOT FILL IN THIS BLOCK

Docket No. DMA-514X

Date received 5/21/51

Participation

[illegible] V. [illegible]
4125 South Figueroa Street
Los Angeles 37, California.

Name and address of applicant

Date May 10, 1951.

FILL IN THIS BLOCK

Date of application May 16, 1951

Estimated cost $20,000.00

Mineral or metal Copper and lead

Percentage of Government participation 60%

Location of mine Globe-Miami Mining District, Gila County, Arizona.

Date of filing MF-100 [illegible]-240 dated 1-18-51

DMA Docket Number, if available DMA-514 X

INSTRUCTIONS

Read Mineral Order 5, Regulations Governing Government Aid in Defense Projects, before completing this application. Submit four signed copies of the application to Defense Minerals Administration, Department of the Interior, Washington 25, D. C., or to the nearest field executive officer thereof, with your name and address on each sheet of the application and all accompanying papers. If any question is inapplicable, or if you cannot answer it, so state on the form. Where the space provided for answer is insufficient, answer on a separate sheet, annex it to the application form, and refer to it in space for answer. If the application is approved, you will be presented with an exploration project contract on Form MF-200, for your signature.

THE APPLICANT

*1. Is applicant an individual, partnership, or corporation?
*2. If a partnership, state names and addresses of partners.
*3. If a corporation, state names and addresses of officers, directors, and five largest stockholders.
*4. Describe the mining and general business experience of (*a*) the applicant, and (*b*) the person or persons who will manage the project.
*5. Are you the owner or the lessee of the property?
6. If owner, state what claims, liens, or encumbrances, if any, are against the property.
7. If lessee, attach a copy of the lease and state if it is in good standing.

NOTE.—It will be necessary to procure and attach to the exploration project contract agreements of claimants, lienors, encumbrances and lessors subordinating their interests in the property to the interest of the Government under the contract.

8. Furnish current financial statement, showing assets and liabilities, and a profit and loss statement.
9. How much money is applicant prepared to invest in proposed project? Is it sufficient to pay your part of the cost of the project as detailed in question 23 of this application form, in accordance with the regulations on Government participation (Section 9 of Mineral Order 5)?

*If you have already answered these questions on MF-100, you are not required to answer the questions for this application.

16—64067-1

THE PROPERTY

10. (*a*) Give a description of the real property that will be in any way involved in the exploration project, including any existing mine or operating property.

(*b*) Give the legal description of the exact parcel, plot, or area upon which the exploration is to be conducted.

NOTE.—If both areas are the same, so state. The only obligation to repay the Government is from the net earnings from any commercial discovery made in the area specified in (*b*) above in which the exploration is to be conducted, and the expenditure of funds which may be charged as costs of the project must be limited to that area or to work necessary to perform the exploration in that area.

*11. State the present and former names of the property, if any.

*12. State, in detail, the location of the property with reference to towns, railroads, roads, shipping points, including distances and directions and kinds and conditions of roads.

*13. State source and quantity of water available for operations and its sufficiency at all seasons.
State amount of power to be used, rate per hour or other cost, and source.

*14. Describe any existing useable facilities, equipment, buildings, or structure now on the property that will be devoted to the exploration work.

15. State in detail how the ore could be shipped and how and where milled.

*16. History:

(*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for any past suspensions of operations.

(*b*) State briefly the known history and production of adjoining and neighboring properties.

(*c*) Furnish any available (private) reports that may apply to this application, including results of mine examinations, recommended exploration and development, and metallurgical investigations.

*17. Production:

(*a*) If mine is in production, furnish the following information:

	Tons per day	*Grade or analysis*	*Cost per ton*	*Net value per ton*
(1) Mining				
(2) Milling				
(3) Shipped or sold				

*18. Ore or mineral reserves: (If property is or has been operating.)

(*a*) Describe the ore or mineral deposits briefly.

(*b*) Submit available maps and assay data.

(*c*) Give estimated tonnage and grade of each class of ore reserves.

19. State any conditions or circumstances regarding the property not sufficiently brought out by the foregoing questions.

THE EXPLORATION

20. For what mineral or minerals and for what types of deposits and ores will the exploration be conducted?

21. Describe briefly, but concisely, the proposed work and the estimated time required to complete it.

NOTE.—The Government will not participate in a project that will require more than 2 years to complete.

22. Furnish statement of the geological basis of the project with particular emphasis on factors leading the operator to expect the finding of commercial ore bodies. This statement should be accompanied by supporting maps such as geological maps, maps of the proposed openings and assay maps, sample lists, and other pertinent data.

THE REQUIREMENTS AND COSTS

23. Tabulate in the form of an itemized statement with a sum for each item the estimated requirements and costs of the project so that the total will give the estimated cost of the project in which the Government will participate, as follows:

(*a*) Labor, by numbers and classes (miners, muckers, millmen, etc.), with wages of each.

(*b*) Supervisors, by numbers and positions, with salaries of each.

(*c*) Cost of necessary repairs to existing facilities, structures, and buildings.

(*d*) Cost of necessary installation or construction of additional facilities, structures, and buildings.

(*e*) Cost of items of equipment, not now owned by the applicant which must be purchased for operations at a cost of $50 or more each.

(*f*) Cost of rental for equipment which the operator proposes to rent.

(*g*) Rental value of items of equipment which the operator now owns and which will be devoted to the work.

(*h*) Cost of materials and supplies, including items of equipment costing less than $50 each.

(*i*) Cost of power, water, utilities, and any other items not provided for above.

24. Furnish a time schedule of the project, stated in terms of months after project is approved, showing progress expected to be accomplished and the money expected to be spent.

CERTIFICATION

The undersigned company, and the official executing this certification on its behalf, hereby certify that the information contained in this form and accompanying papers is correct and complete to the best of their knowledge and belief.

_____ (Name of company)

By Henry V. Snell (Signature of authorized official)

May 16 - 1951 (Date)

Owner (Title)

Title 18, U. S. Code (Crimes), Section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

*Same as footnote on page 1.

16—64067-1 U. S. GOVERNMENT PRINTING OFFICE

Docket DM[illegible]514

Henry V. Snell
4125 South Figue[illegible]a Street
Los Angeles 37, California

The Applicant

1. See Docket No. DMA-514 (individual)
2. ----
3. ----
4. (a) See original filing - Docket No. DMA-514
   (b) " " " " " " " (owner)
5. Owner
6. None
7. ----
8. See original filing - Docket No. DMA-514
9. $10,000. Yes.

The Property

10. (a) See maps and reports filed in Docket No. DMA-514.
    (b) Areas same.
11. See Docket No. DMA-514.
12. See Docket DMA-514. (See Reports)
13. See " DMA-514 (See Reports)
14. None - See DMA-514.
15. Ore will be direct smelting and can be shipped by truck or rail to one or more of six or seven smelters with economical reach - three are within 40 miles.
16. See reports attached to DMA-514.
17. See Docket No. DMA-514.
18. See Docket No. DMA-514.
19. There are none to my knowledge.

The Exploration

20. See Reports with Docket No. DMA-514.
21. My idea is to explore by diamond drill, the reason for which I think can be grasped by reference to maps filed with Docket No. DMA-514. The drilling would most likely be done by contract with a drilling firm and I would estimate all could be completed within a year.
22. See geological maps filed with Docket No. DMA-514.

The Requirements and Costs

23. (a) Probably one man at about $12.50 per day. The balance of labor would belong to drill crew.
    (b) One supervisor to superintend whole operation at approximately $500 to $600 per month.
    (c) There are no existing buildings or structures. There will be some road repair, estimated $200 to $300.
    (d) Depending on selection of hole locations, there may be necessity for some road or trail building, estimated at $200.
    (e) A pickup truck may be necessary, estimate $1500.00.
    (f) ----
    (g) ----
    (h) Small tools, possibly $50.00.
    (i) No power except attached power to the drill. Water for drilling will have to be hauled short distance by truck provided for above

Henry V. [illegible]nell
4125 South Figueroa Street
Los Angeles 37, California

The Requirements and Costs - Cont'd

24. After completion of negotiations for contract to cover drilling, I would estimate not over six months to complete an estimated 3000 feet of hole, with a total overall expenditure of $20,000.

Form MF-100
(March 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Form approved.
Budget Bureau No. 42-R1026.

GENERAL TECHNICAL DATA
FOR USE UNDER THE
DEFENSE PRODUCTION ACT OF 1950

NOT TO BE FILLED IN BY APPLICANT

Docket No. Dma-514X

Date received 5/21/51

HENRY V. SMALL,
4125 South Figueroa Street
Los Angeles 37, California

Based on last paragraph of Sec. 3 of MO-5 and correspondence I have had with DMA, I consider that my original filing, Docket No. DMA-514, supplies the requirements of MP-100.

Name and address of applicant

Date May 16, 195

INSTRUCTIONS

This form is to be filed with Defense Minerals Administration, Department of the Interior, Washington 25, D. C. It should be accompanied by appropriate application form when a specific type of Government assistance is requested, in the form of (1) loan, (2) purchase contract, (3) Government guarantee of a private loan, (4) Necessity Certificate pursuant to the provisions of Sec. 124–A (Amortization Deduction) of Internal Revenue Code, 1950, (5) priorities or allocation of mining equipment, and maintenance, repair and operating supplies, and (6) other forms of Government assistance that might arise under the Act. Submit four (4) signed copies of the form and accompanying papers. Name and address should be stamped or typed on each sheet of this form and all accompanying papers. *When a question is inapplicable it should be so stated on the form.* Additional sheets may be attached in answering any questions or in supplying additional information. (IF YOU CANNOT ANSWER A QUESTION, SO STATE.) If a question is answered elsewhere indicate where answered. It is not necessary to answer it again.

GENERAL TECHNICAL DATA

Supply the following information on separate sheets, arranged, numbered, and lettered as indicated:

1. Materials produced:
   (*a*) What are the chief mine, mill, or smelter products?
   (*b*) What are the byproducts, if any?
2. Name(s) and type(s) of mine(s), mill(s), smelter(s), refinery(ies), pit(s), quarry (ies), drilling operation(s). Include old names of property, if any. Show extent of workings, including the following:
   (*a*) Linear feet of shafts.
   (*b*) Linear feet of drifts and crosscuts.
   (*c*) Linear feet of tunnels or adits.
   (*d*) Linear feet of other mine openings (explain briefly).

   Indicate whether mine is flooded or not. Describe any pumping problems. Give size or productive capacity.
3. For each operation listed above supply the following:
   (*a*) Distance and direction from nearest town and shipping point.
   (*b*) Mining district.
   (*c*) Township, Section, Range.
   (*d*) County, State.
4. (*a*) State whether or not property is now in operation, and if in operation, by whom operated.
   (*b*) Are you operating this property as:
   - ☐ Owner.
   - ☐ Lessee.
   - ☐ Contractor.
5. Number of years in production _____

   If not in production or operation, estimated date when production will begin _____
6. Experience of operators:

   Describe the mining and general business experience of (*a*) the applicant, and (*b*) the person or persons who manage the project.
7. History:
   (*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for suspension of operation.
   (*b*) State briefly the known history and production of adjoining and neighboring properties.
   (*c*) Furnish any available (private) reports that may apply to this application, including results of mine examinations, recommended exploration and development, and metallurgical investigations.

8. Names and addresses of Officers, Directors, or Partners, and in addition thereto, the five largest stockholders if applicant is a corporation.

Name and Address (a)	Official Title (If officer is also director indicate by "D") (b)	Total of Annual Salary, Commissions, Bonuses, Etc., Received From Applicant and Affiliates During Last Fiscal Year (c)	Estimated Net Worth Outside of Interest in Applicant (d)	Number of Shares Held in Applicant Corporation		Life Insurance Carried for Benefit of Applicant	
				Common (e)	Preferred (f)	Amount (g)	Net Cash Surrender Value After Loans (h)
	Total		x x x x x			x x x x x	x x x x x

If more lines are needed continue on separate sheet.

9. Capital Stock Issues:

For Corporate Applicants

Item	Authorized (a)	Outstanding (b)	Par Value (c)	Number of Shares Outstanding (d)	Dividend Rate Last Paid* (e)
Common stock	$	$	$		
Preferred stock	$	$	$		

*Indicate period covered.

10. Production:

Item	Kind of Product (a)	1948 Total (b)	1949 Total (c)	1950 Total (d)	Present Average Monthly (e)
1. Quantity of product mined or quarried (Short, long, metric tons; barrels; pounds; etc.)					
2. Quantity of product processed (specify unit of measure and type of process)					
3. Quantity and grade of product sold or shipped (specify units of measure)					

11. Do you contemplate a change in the present average monthly rate of production? If so, state estimated maximum monthly production and basis of change.

12. Ore or Mineral Reserves:

(a) Describe the ore or mineral deposit briefly. Accompany the application by any available report on the geology and ore reserves.

(*b*) If deposit is other than placer:

(1) Submit assay plans and/or sections showing location and size of proved (measured) and probable (indicated) ore or mineral reserve.

(2) State the tonnage (indicate type of ton) and grade of each class of ore reserve, as above, and show how computed. Tabulated total ore reserve as follows:

TOTAL ORE OR MINERAL RESERVES

Ore or Mineral Reserve	Estimated Tons (a)	Metal or Mineral Content Per Ton (Grade) (b)	Gross Value Per Ton (c)	Recoverable Unit Value Per Ton (d)	Estimated Cost of Production Per Ton (e)
Measured (proved)					
Indicated (probable)					

(*c*) If placer:

(1) Give estimated total yardage and average marketable mineral content of each deposit.

(2) Submit map showing location of placer deposit and surrounding area, with all test holes or pits. Submit logs of each hole and test pit with depth and average value of each.

(3) Describe gravel, stating whether fine, medium or coarse; loose, tight, cemented, or frozen, and whether it contains stumps or boulders more than 1 foot in diameter; if so, how large, and in what proportion.

(4) Describe bedrock, giving type (granite, sandstone, shale, etc.) and state whether it is hard or soft, smooth, uneven or rough.

(5) Describe overburden, stating whether loose, tight, or cemented; fine or coarse textured; furnish estimate of average thickness and total amount.

(6) Tabulate the reserves using the form outlined above for ore or mineral reserves.

13. Access Roads:

Give road distances to shipping, supply and residence points, stating kind and condition of roads.

14. Water Supply:

State source and quantity of water available for operations and whether sufficient for all seasons of year.

15. Power:

State amount of power used, rate per hour, and source thereof.

16. Labor:

State number and classes (miners, muckers, millmen, etc.) of men employed during a recent representative payroll period.

17. Equipment and Facilities:

Describe present equipment on the property, including buildings. (State condition.) List major pieces of equipment now owned or controlled and in serviceable condition available for this operation.

18. Are there any particular conditions or circumstances affecting your operations that are not described above? If so, explain.

CERTIFICATION

The undersigned company, and the official executing this certification on its behalf, hereby certify that the information contained in this form and accompanying papers is correct and complete to the best of their knowledge and belief.

(Name of company)

By Henry V. Snell
(Signature of authorized official)

May 16 - 1951
(Date)

Owner
(Title)

Title 18, U. S. Code (Crimes), Section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

U. S. GOVERNMENT PRINTING OFFICE 16—63792-1

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAY 2 1 1951
LANDON F. STROBEL
Executive Secretary

Los Angeles, Calif., May 16, 1951.

Defense Minerals Administration,
(Copper Division)
Washington 25, D. C.

Dear Sirs: Re: Docket No. DMA-514

Enclosed find forms MF-100 and MF-103 covering application for exploratory loan. The original application was made on form NSPB-146 and filed in your office as Docket No. DMA-514.

Very truly yours,

Henry V. Snell

Henry V. Snell
4125 South Figueroa
Los Angeles 37, Calif.

HVS-M

Form MF-103
(April 1951)

S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Budget Bureau No. 42-R1035.
Approval expires 6-30-51.

APPLICATION FOR AID FOR AN EXPLORATION PROJECT PURSUANT TO MINERAL ORDER 5, UNDER DEFENSE PRODUCTION ACT OF 1950

DO NOT FILL IN THIS BLOCK

Docket No. dma. 514 X

Date received 5/31/51

Participation

HENRY V. SNELL
4125 South Figueroa Street
Los Angeles 37, California.

Name and address of applicant

Date May 16, 1951.

FILL IN THIS BLOCK

Date of application May 16, 1951

Estimated cost $20,000.00

Mineral or metal Copper and lead

Percentage of Government participation 50%

Location of mine Globe-Miami Mining District, Gila County, Arizona.

Date of filing MF-100 NSRB-146 dated 1-18-51

DMA Docket Number, if available DMA-514 X

INSTRUCTIONS

Read Mineral Order 5, Regulations Governing Government Aid in Defense Projects, before completing this application. Submit four signed copies of the application to Defense Minerals Administration, Department of the Interior, Washington 25, D. C., or to the nearest field executive officer thereof, with your name and address on each sheet of the application and all accompanying papers. If any question is inapplicable, or if you cannot answer it, so state on the form. Where the space provided for answer is insufficient, answer on a separate sheet, annex it to the application form, and refer to it in space for answer. If the application is approved, you will be presented with an exploration project contract on Form MF-200, for your signature.

THE APPLICANT

*1. Is applicant an individual, partnership, or corporation?
*2. If a partnership, state names and addresses of partners.
*3. If a corporation, state names and addresses of officers, directors, and five largest stockholders.
*4. Describe the mining and general business experience of (*a*) the applicant, and (*b*) the person or persons who will manage the project.
*5. Are you the owner or the lessee of the property?
6. If owner, state what claims, liens, or encumbrances, if any, are against the property.
7. If lessee, attach a copy of the lease and state if it is in good standing.

NOTE.—It will be necessary to procure and attach to the exploration project contract agreements of claimants, lienors, encumbrances and lessors subordinating their interests in the property to the interest of the Government under the contract.

8. Furnish current financial statement, showing assets and liabilities, and a profit and loss statement.
How much money is applicant prepared to invest in proposed project? Is it sufficient to pay your part of the cost of the project as detailed in question 23 of this application form, in accordance with the regulations on Government participation (Section 9 of Mineral Order 5)?

*If you have already answered these questions on MF-100, you are not required to answer the questions for this application.

16—64067-1

THE PROPERTY

10. (*a*) Give a description of the real property that will be in any way involved in the exploration project, including any existing mine or operating property.

(*b*) Give the legal description of the exact parcel, plot, or area upon which the exploration is to be conducted.

NOTE.—If both areas are the same, so state. The only obligation to repay the Government is from the net earnings from any commercial discovery made in the area specified in (*b*) above in which the exploration is to be conducted, and the expenditure of funds which may be charged as costs of the project must be limited to that area or to work necessary to perform the exploration in that area.

*11. State the present and former names of the property, if any.

*12. State, in detail, the location of the property with reference to towns, railroads, roads, shipping points, including distances and directions and kinds and conditions of roads.

*13. State source and quantity of water available for operations and its sufficiency at all seasons. State amount of power to be used, rate per hour or other cost, and source.

*14. Describe any existing useable facilities, equipment, buildings, or structure now on the property that will be devoted to the exploration work.

15. State in detail how the ore could be shipped and how and where milled.

*16. History:

(*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for any past suspensions of operations.

(*b*) State briefly the known history and production of adjoining and neighboring properties.

(*c*) Furnish any available (private) reports that may apply to this application, including results of mine examinations, recommended exploration and development, and metallurgical investigations.

*17. Production:

(*a*) If mine is in production, furnish the following information:

	Tons per day	*Grade or analysis*	*Cost per ton*	*Net value per ton*
(1) Mining				
(2) Milling				
(3) Shipped or sold				

*18. Ore or mineral reserves: (If property is or has been operating.)

(*a*) Describe the ore or mineral deposits briefly.

(*b*) Submit available maps and assay data.

(*c*) Give estimated tonnage and grade of each class of ore reserves.

19. State any conditions or circumstances regarding the property not sufficiently brought out by the foregoing questions.

THE EXPLORATION

20. For what mineral or minerals and for what types of deposits and ores will the exploration be conducted?

21. Describe briefly, but concisely, the proposed work and the estimated time required to complete it.

NOTE.—The Government will not participate in a project that will require more than 2 years to complete.

22. Furnish statement of the geological basis of the project with particular emphasis on factors leading the operator to expect the finding of commercial ore bodies. This statement should be accompanied by supporting maps such as geological maps, maps of the proposed openings and assay maps, sample lists, and other pertinent data.

THE REQUIREMENTS AND COSTS

23. Tabulate in the form of an itemized statement with a sum for each item the estimated requirements and costs of the project so that the total will give the estimated cost of the project in which the Government will participate, as follows:

(*a*) Labor, by numbers and classes (miners, muckers, millmen, etc.), with wages of each.

(*b*) Supervisors, by numbers and positions, with salaries of each.

(*c*) Cost of necessary repairs to existing facilities, structures, and buildings.

(*d*) Cost of necessary installation or construction of additional facilities, structures, and buildings.

(*e*) Cost of items of equipment, not now owned by the applicant which must be purchased for operations at a cost of $50 or more each.

(*f*) Cost of rental for equipment which the operator proposes to rent.

(*g*) Rental value of items of equipment which the operator now owns and which will be devoted to the work.

(*h*) Cost of materials and supplies, including items of equipment costing less than $50 each.

(*i*) Cost of power, water, utilities, and any other items not provided for above.

24. Furnish a time schedule of the project, stated in terms of months after project is approved, showing progress expected to be accomplished and the money expected to be spent.

CERTIFICATION

The undersigned company, and the official executing this certification on its behalf, hereby certify that the information contained in this form and accompanying papers is correct and complete to the best of their knowledge and belief.

(Name of company)

By Henry V. Snell
(Signature of authorized official)

May 16 - 1951
(Date)

Owner
(Title)

Title 18, U. S. Code (Crimes), Section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

*Same as footnote on page 1.

16—64067-1 U. S. GOVERNMENT PRINTING OFFICE

Docket DMA-514

Henry V. Snell
4125 South Figueroa Street
Los Angeles 37, California

The Applicant

1. See Docket No. DMA-514 (individual)
2. ----
3. ----
4. (a) See original filing - Docket No. DMA-514
   (b) " " " " " " " (owner)
5. Owner
6. None
7. ----
8. See original filing - Docket No. DMA-514
9. $10,000. Yes.

The Property

10. (a) See maps and reports filed in Docket No. DMA-514.
    (b) Areas same.
11. See Docket No. DMA-514.
12. See Docket DMA-514. (See Reports)
13. See " DMA-514 (See Reports)
14. None - See DMA-514.
15. Ore will be direct smelting and can be shipped by truck or rail to one or more of six or seven smelters with economical reach - three are within 40 miles.
16. See reports attached to DMA-514.
17. See Docket No. DMA-514.
18. See Docket No. DMA-514.
19. There are none to my knowledge.

The Exploration

20. See Reports with Docket No. DMA-514.
21. My idea is to explore by diamond drill, the reason for which I think can be grasped by reference to maps filed with Docket No. DMA-514. The drilling would most likely be done by contract with a drilling firm and I would estimate all could be completed within a year.
22. See geological maps filed with Docket No. DMA-514.

The Requirements and Costs

23. (a) Probably one man at about $12.50 per day. The balance of labor would belong to drill crew.
    (b) One supervisor to superintend whole operation at approximately $500 to $600 per month.
    (c) There are no existing buildings or structures. There will be some road repair, estimated $200 to $300.
    (d) Depending on selection of hole locations, there may be necessity for some road or trail building, estimated at $200.
    (e) A pickup truck may be necessary, estimate $1500.00.
    (f) ----
    (g) ----
    (h) Small tools, possibly $50.00.
    (i) No power except attached power to the drill. Water for drilling will have to be hauled short distance by truck provided for above

Docket DMA-514

Henry Snell
4125 South Figueroa Street
Los Angeles 37, California

The Requirements and Costs - Cont'd

24. After completion of negotiations for contract to cover drilling, I would estimate not over six months to complete an estimated 3000 feet of hole, with a total overall expenditure of $20,000.

Form MF-100
(March 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Form approved.
Budget Bureau No. 42-R1026.

GENERAL TECHNICAL DATA
FOR USE UNDER THE
DEFENSE PRODUCTION ACT OF 1950

NOT TO BE FILLED IN BY APPLICANT

Docket No. DMA-514X

Date received

HENRY V. SNELL,
4125 South Figueroa Street
Los Angeles 37, California

Based on last paragraph of Sec. 3 of MO-5 and correspondence I have had with DMA, I consider that my original filing, Docket No. DMA-514, supplies the requirements of MF-100.

Name and address of applicant

Date May 16, 1951

INSTRUCTIONS

This form is to be filed with Defense Minerals Administration, Department of the Interior, Washington 25, D. C. It should be accompanied by appropriate application form when a specific type of Government assistance is requested, in the form of (1) loan, (2) purchase contract, (3) Government guarantee of a private loan, (4) Necessity Certificate pursuant to the provisions of Sec. 124-A (Amortization Deduction) of Internal Revenue Code, 1950, (5) priorities or allocation of mining equipment, and maintenance, repair and operating supplies, and (6) other forms of Government assistance that might arise under the Act. Submit four (4) signed copies of the form and accompanying papers. Name and address should be stamped or typed on each sheet of this form and all accompanying papers. *When a question is inapplicable it should be so stated on the form.* Additional sheets may be attached in answering any questions or in supplying additional information. (IF YOU CANNOT ANSWER A QUESTION, SO STATE.) If a question is answered elsewhere indicate where answered. It is not necessary to answer it again.

GENERAL TECHNICAL DATA

Supply the following information on separate sheets, arranged, numbered, and lettered as indicated:

1. Materials produced:
   (*a*) What are the chief mine, mill, or smelter products?
   (*b*) What are the byproducts, if any?
2. Name(s) and type(s) of mine(s), mill(s), smelter(s), refinery(ies), pit(s), quarry (ies), drilling operation(s). Include old names of property, if any. Show extent of workings, including the following:
   (*a*) Linear feet of shafts.
   (*b*) Linear feet of drifts and crosscuts.
   (*c*) Linear feet of tunnels or adits.
   (*d*) Linear feet of other mine openings (explain briefly).

   Indicate whether mine is flooded or not. Describe any pumping problems. Give size or productive capacity.
3. For each operation listed above supply the following:
   (*a*) Distance and direction from nearest town and shipping point.
   (*b*) Mining district.
   (*c*) Township, Section, Range.
   (*d*) County, State.
4. (*a*) State whether or not property is now in operation, and if in operation, by whom operated.
   (*b*) Are you operating this property as:
   - ☐ Owner.
   - ☐ Lessee.
   - ☐ Contractor.
5. Number of years in production .....

   If not in production or operation, estimated date when production will begin .....
6. Experience of operators:

   Describe the mining and general business experience of (*a*) the applicant, and (*b*) the person or persons who manage the project.

History:
   (*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for suspension of operation.
   (*b*) State briefly the known history and production of adjoining and neighboring properties.
   (*c*) Furnish any available (private) reports that may apply to this application, including results of mine examinations, recommended exploration and development, and metallurgical investigations.

8. Names and addresses of Officers, Directors, or Partners, and in addition thereto, the five largest stockholders if applicant is a corporation.

Name and Address (a)	Official Title (If officer is also director indicate by "D") (b)	Total of Annual Salary, Commissions, Bonuses, Etc., Received From Applicant and Affiliates During Last Fiscal Year (c)	Estimated Net Worth Outside of Interest in Applicant (d)	Number of Shares Held in Applicant Corporation		Life Insurance Carried for Benefit of Applicant	
				Common (e)	Preferred (f)	Amount (g)	Net Cash Surrender Value After Loans (h)
	Total		x x x x x			x x x x x	x x x x x

If more lines are needed continue on separate sheet.

9. Capital Stock Issues:

For Corporate Applicants

Item	Authorized (a)	Outstanding (b)	Par Value (c)	Number of Shares Outstanding (d)	Dividend Rate Last Paid* (e)
Common stock	$	$	$		
Preferred stock	$	$	$		

*Indicate period covered.

10. Production:

Item	Kind of Product (a)	1948 Total (b)	1949 Total (c)	1950 Total (d)	Present Average Monthly (e)
1. Quantity of product mined or quarried (Short, long, metric tons; barrels; pounds; etc.)					
2. Quantity of product processed (specify unit of measure and type of process)					
3. Quantity and grade of product sold or shipped (specify units of measure)					

11. Do you contemplate a change in the present average monthly rate of production? If so, state estimated maximum monthly production and basis of change.

12. Ore or Mineral Reserves:

(a) Describe the ore or mineral deposit briefly. Accompany the application by any available report on the geology and ore reserves.

(*b*) If deposit is other than placer:

(1) Submit assay plans and/or sections showing location and size of proved (measured) and probable (indicated) ore or mineral reserve.

(2) State the tonnage (indicate type of ton) and grade of each class of ore reserve, as above, and show how computed. Tabulated total ore reserve as follows:

TOTAL ORE OR MINERAL RESERVES

Ore or Mineral Reserve	Estimated Tons (a)	Metal or Mineral Content Per Ton (Grade) (b)	Gross Value Per Ton (c)	Recoverable Unit Value Per Ton (d)	Estimated Cost of Production Per Ton (e)
Measured (proved)					
Indicated (probable)					

(*c*) If placer:

(1) Give estimated total yardage and average marketable mineral content of each deposit.

(2) Submit map showing location of placer deposit and surrounding area, with all test holes or pits. Submit logs of each hole and test pit with depth and average value of each.

(3) Describe gravel, stating whether fine, medium or coarse; loose, tight, cemented, or frozen, and whether it contains stumps or boulders more than 1 foot in diameter; if so, how large, and in what proportion.

(4) Describe bedrock, giving type (granite, sandstone, shale, etc.) and state whether it is hard or soft, smooth, uneven or rough.

(5) Describe overburden, stating whether loose, tight, or cemented; fine or coarse textured; furnish estimate of average thickness and total amount.

(6) Tabulate the reserves using the form outlined above for ore or mineral reserves.

Access Roads:

Give road distances to shipping, supply and residence points, stating kind and condition of roads.

14. Water Supply:

State source and quantity of water available for operations and whether sufficient for all seasons of year.

15. Power:

State amount of power used, rate per hour, and source thereof.

16. Labor:

State number and classes (miners, muckers, millmen, etc.) of men employed during a recent representative payroll period.

17. Equipment and Facilities:

Describe present equipment on the property, including buildings. (State condition.) List major pieces of equipment now owned or controlled and in serviceable condition available for this operation.

18. Are there any particular conditions or circumstances affecting your operations that are not described above? If so, explain.

CERTIFICATION

The undersigned company, and the official executing this certification on its behalf, hereby certify that the information contained in this form and accompanying papers is correct and complete to the best of their knowledge and belief.

(Name of company)

By Henry V. Snell
(Signature of authorized official)

May 16 - 1951
(Date)

Owner
(Title)

Title 18, U. S. Code (Crimes), Section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

U. S. GOVERNMENT PRINTING OFFICE 16—63792-1

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAY 2 1 1951
LANDON F. STROBEL
Executive Secretary

FILE COPY
SURNAME:

Bowen
MacLaren
Thayer
Moon

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION
WASHINGTON 25, D. C.

May 16, 1951

Re: Docket No. DMA-514

Mr. Henry F. Snell
1125 South Figueroa
Los Angeles 37, California

Dear Mr. Snell:

We are glad to have your letter of May 7, in which you ask for assurance of favorable action on a proposed 50 percent Government exploratory project for $20,000. We are requesting a field team to make an examination of your proposal. You should receive a letter from Mr. J. H. East, Jr., in the near future, to arrange for this examination. Until we receive the report from the field team we will not be able to give any assurance of what action may be recommended.

We were about to mail a reply to yours of April 25, in which we hoped to clarify the special consideration clause in the Information Release of February 20, 1951. This paragraph was intended to provide for changes in the various commodity percentages in the event the supply-demand situation were to change. It was not meant to suggest that different projects in a given commodity group, as copper, would receive different treatment dependent on their individual merits or needs.

Very truly yours,

Tom Lyon
pp.

Tom Lyon, Chairman
Coordinating Committee

DMacLaren:pf

Copy to: J. H. East, Executive Officer, DMA Field Team,
224 New Customhouse, Denver 2, Colorado (2)
Executive Secretary
Mr. Lyon
Mr. Moon
Mr. MacLaren
Files

B

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION
WASHINGTON 25, D. C.

May 16, 1951

Re: Docket No. DMA-514

Mr. J. H. East, Jr.
224 New Customhouse
Denver 2, Colorado

Dear Mr. East:

We are forwarding an application for a $20,000 Government participation exploration project from Mr. Henry V. Snell, 4125 South Figueroa, Los Angeles 37, California. This application was originally submitted for a $200,000 operating loan. We suggested that on the basis of information submitted to us this should be an exploration project on a 50-50 basis. We have received a letter from him asking that his application be so considered.

Will you please arrange for a Field Team to look at this property and submit a report from the viewpoint of an exploration project.

Very truly yours,

Tom Lyon

Tom Lyon, Director
Coordinating Committee

Attachments

APPROVED:

Lowell B. Moon
Member, Bureau of Mines

Olaf N. Rove
Member, Geological Survey

DRMacLaren:pf
Copy to: Mr. East, Executive Officer, DMA Field Team, Region IV
224 New Customhouse, Denver 2, Colorado (2)
Executive Secretary
Copper Branch
Mr. Lyon
Mr. Moon
Mr. MacLaren
Files

May 16, 1951

Our Docket No. DMA-514

Mr. J. H. East, Jr.
224 New Customhouse
Denver 2, Colorado

Dear Mr. East:

We are forwarding an application for a $20,000 Government participation exploration project from Mr. Henry V. Small, 1425 South Figueroa, Los Angeles 37, California. This application was originally submitted for a $200,000 operating loan. We suggested that on the basis of information submitted to us this should be an exploration project on a 50-50 basis. We have received a letter from him asking that his application be so considered.

Will you please arrange for a Field Team to look at this property and submit a report from the viewpoint of an exploration project.

Very truly yours,

Tom Lyon
PR.

Tom Lyon, Director
Coordinating Committee

Attachments

APPROVED:

Lowell B. Moon
Member, Bureau of Mines

Member, Geological Survey

DRMacLaren:pf
Copy to: Mr. East, Executive Officer, DMA Field Team, Region IV
224 New Customhouse, Denver 2, Colorado (2)
Executive Secretary
Copper Branch
Mr. Lyon
Mr. Moon
Mr. MacLaren
Files

REGIONAL DIRECTOR'S
OFFICE
REGION IV
JUL 9 1951
BUREAU OF MINES
DENVER, COLORADO

June 4, 1951

Re: Docket No. DMA-514

Mr. J. H. East, Jr.
224 New Customhouse
Denver 2, Colorado

Dear Mr. East:

For your information and your files we are enclosing a copy of a letter from Henry V. Snell which we inadvertently failed to send you when we wrote to you on May 16, 1951.

Very truly yours,

J. B. Gowen, Acting Chief
Copper Branch, DMA

JWAlt:pf

Copy to Executive Secretary, W.C.I.
Copper Branch, W.C.I.
F i l e s
Mr. Lyon
Mr. Moon
Mr. MacLaren

June 4, 1951

Re: Docket No. DMA-514

Mr. J. H. East, Jr.
224 New Customhouse
Denver 2, Colorado

Dear Mr. East:

For your information and your files we are enclosing a copy of a letter from Henry V. Smell which we inadvertently failed to send you when we wrote to you on May 16, 1951.

Very truly yours,

J. B. Gowen

J. B. Gowen, Acting Chief
Copper Branch, DMA

JWAlt:pf

Copy to Executive Secretary, W.C.I.
Copper Branch, W.C.I.
F i l e s
Mr. Lyon
Mr. Meem
Mr. MacLaren

June 4, 1951

Re: Docket No. DMA-514

Mr. J. H. East, Jr.
224 New Customhouse
Denver 2, Colorado

Dear Mr. East:

For your information and your files we are enclosing a copy of a letter from Henry V. Small which we inadvertently failed to send you when we wrote to you on May 16, 1951.

Very truly yours,

J. B. Gowen, Acting Chief
Copper Branch, DMA

Enclosure

JWAlt:pf

Copy to: Executive Secretary, w.c.i.
Copper Branch, w.c.i.
Files
Mr. Lyon
Mr. Kroon
Mr. MacLaren

Los Angeles, California, April 25, 1951

Mr. J. B. Gowen
Acting Chief Copper Branch, DMA
Defense Minerals Administration
Washington 25, D. C.

Docket No. DMA-514

Dear Mr. Gowen:

I have your letters of April 9th and of April 19th with exploratory loan application forms enclosed.

In my original loan application on Form NSRB-146 (new your Docket DMA-514), I brought out on page 8 of that form that I still owe $5,000.00 on my purchase obligation before I have title as sole owner of the property.

In my opinion, the very least amount that should be considered an as exploratory fund is $15,000.00. This figure may be too low as it is more or less based on contract drilling rates of some years ago on a project with which I was associated. If it were decided that the proper exploration would be through shaft and drifting therefore the $15,000.00 of course would be entirely inadequate.

COPY

My part of the $15,000.00 would be $7,500.00, which with my obligation of $5,000.00 which I necessarily must meet would make a lead more than I can carry right now. On March 21 st Mr. Tom Lyon wrote me and sent me copy of "Information Release" of February 20, 1951, and in the last sentence of paragraph 5, on page 2, it states:

"However, in exceptional cases involving the most strategic and critical metals and minerals the Secretary may depart from the matching principle in whole or in part if he finds that such action is necessary to accomplish the objectives of the program."

Based on every statement I have seen in the press, also Government releases, copper is certainly critical, and further corroborating this statement the Engineering and Mining Journal, which is accepted as top authority, in its current issue of April, 1951, states, "The supply of copper continues inadequate", and therefore it seems to me I should qualify under the paragraph quoted above and get total, or practically total, as the Government's proportion of the exploratory fund.

I think if you will review the maps and data in my file you will agree that the possibilities of my property warrant the application of the principle set out in the paragraph quoted above from the "Information Release".

Awaiting your early reply, I am,

Very truly yours,

Henry V. Snell, 4125 S. Figueroa, Los Angeles 37, California

Los Angeles, California, April 25, 1951.

Mr. J. B. Gowen,
Acting Chief Copper Branch, DMA
Defense Minerals Administration,
Washington 25, D. C.

Dear Mr. Gowen: Docket No. DMA-514

I have your letters of April 9th and of April 19th with exploratory loan application forms enclosed.

In my original loan application on Form NSRB-146 (now your Docket DMA-514), I brought out on page 8 of that form that I still owe $5,000.00 on my purchase obligation before I have title as sole owner of the property.

In my opinion, the very least amount that should be considered as an exploratory fund is $15,000.00. This figure may be too low as it is more or less based on contract drilling rates of some years ago on a project with which I was associated. If it were decided that the proper exploration would be through shaft and drifting therefrom the $15,000.00 of course would be entirely inadequate.

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I think if you will review the maps and data in my file you will agree that the possibilities of my property warrant the application of the principle set out in the paragraph quoted above from the "Information Release".

Awaiting your early reply, I am,

Very truly yours,

/s/ Henry V. Snell

4125 So. Figueroa, Los Angeles 37, California

HVS-M

Los Angeles, California, April 25, 1951.

Mr. J. B. Gowen
Acting Chief Copper Branch, DMA
Defense Minerals Administration,
Washington 25, D. C.

Dear Mr. Gowen: Docket No. DMA-514

I have your letters of April 9th and of April 19th with exploratory loan application forms enclosed.

In my original loan application on Form NSRB-146 (now your Docket DMA-514), I brought out on page 8 of that form that I still owe $5,000.00 on my purchase obligation before I have title as sole owner of the property.

In my opinion, the very least amount that should be considered as an exploratory fund is $15,000.00. This figure may be too low as it is more or less based on contract drilling rates of some years ago on a project with which I was associated. If it were decided that the proper exploration would be through shaft and drifting therefrom the $15,000.00 of course would be entirely inadequate.

My part of the $15,000.00 would be $7,500.00, which with my obligation of $5,000.00 which I necessarily must meet would make a load more than I can carry right now. On March 21st Mr. Tom Lyon wrote me and sent me copy of "Information Release" of February 20, 1951, and in the last sentence of paragraph 5, on page 2, it states:

> "However, in exceptional cases involving the most strategic and critical metals and minerals the Secretary may depart from the matching principle in whole or in part if he finds that such action is necessary to accomplish the objectives of the program."

Based on every statement I have seen in the press, also Government releases, copper is certainly critical, and further corroborating this statement the Engineering and Mining Journal, which is accepted as top authority, in its current issue of April, 1951, states, "The supply of copper continues inadequate", and therefore it seems to me I should qualify under the paragraph quoted above and get total, or practically total, as the Government's proportion of the exploratory fund.

I think ifyou will review the maps and data in my file you will agree that the possibilities of my propertywarrant the application of the principle set out in the paragraph quoted above from the "Information Release".

Awaiting your early reply, I am,

Very truly yours,

/s/ Henry V. Snell
4125 So. Figueroa, Los Angeles 37,
California

HVS-M

COPY

Los Angeles, California, April 27, 1951.

Mr. J. H. Jensen
Acting Director Copper Branch, DPA
Defense Materials Administration,
Washington 25, D. C.

Dear Mr. Jensen:

Docket No. MM-[illegible]

I have your letters of April 9th and of April 13th with exploratory loan application forms enclosed.

In my original loan application on Form [illegible] (see your Docket MM-[illegible]), I forgot to set out on page 3 of that form that I still owe $[illegible],000.00 on my purchase obligation before I have title as sole owner of the property.

In my opinion, the very least amount that should be considered as an exploratory fund is $15,000.00. This figure may be too low as it is more or less based on conservative drilling rates of some years ago on a project with which I was associated. It is hoped that the minor exploration would be through shaft and drifting therefore the $15,000.00 of course would be entirely inadequate.

My part of the $15,000.00 would be $7,500.00, which with my diversion of $5,000.00 which I necessarily must keep would make a hard pure than I can carry right now. On March 21st Mr. Tom Lyon wrote me and sent me copy of "Information Release" of February 20, 1951, and in the last sentence of paragraph 5, on page 2, it states:

> "However, in exceptional cases involving the most strategic and critical metals and minerals the Secretary may depart from the regulations prescribed in Circle on in part if he finds that such action is necessary to accomplish the objectives of the program."

Based on every statement I have seen in the press, also Government reports, copper is certainly critical, and further corroborating this the statement the Engineering and Mining Journal, magazine accepted as top authority, in its current issue of April, 1951, states, "The supply of copper continues inadequate", and therefore it seems to me I should qualify under the paragraph quoted above and get total, or practically total, as the Government's proportion of the exploratory fund.

I think if you will review the maps and data in my file you will agree that the possibilities of my property warrant the application of the principle set out in the paragraph quoted above from the "Information Release".

Awaiting your early reply, I am,

Very truly yours,

Harry J. Small
Box 5, Pierce, Los Angeles 27,
California

HJS:[illegible]

Re: Docket No. DMA-51AX
Henry V. Small
Copper
Exploration Aid

Mr. J. H. West, Jr.
Executive Officer
DMA Field Team, Region IV
22h New Customhouse
Denver 2, Colorado

Dear Mr. West:

The application for an exploration loan of Henry V. Small, 3123 South Figueroa, Los Angeles 37, California, has been received by the Copper Branch after we wrote to you asking for a field team examination of this property.

For your information we are enclosing two copies of Form MT-105 and Form MT-103, the applications of Henry V. Small. Please return these when you have completed your report.

Very truly yours,

Tom Lyon, Chairman
Coordinating Committee

Enclosures 4

JVAlitha 6-5-51
Approved:

for, Bureau of Mines

for, Geological Survey

Copy to Executive Secretary, DMA
Copper Branch
Coordinating Committee
Mr. Moon

Administrator's Reading File
DMA Commodity Man
Survey Commodity Man
Bureau Commodity Man
F i l e s

C. H. Johnson

Re: Docket No. DMA-5181
Henry V. Small
Copper
Exploration Aid

Mr. J. N. Hunt, Jr.
Executive Officer
DMA Field Team, Region IV
320 New Customhouse
Denver 2, Colorado

Dear Mr. Hunt:

The application for an exploration loan of Henry V. Small, 4125 South Figueroa, Los Angeles 37, California, has been received by the Copper Branch after we wrote to you asking for a field team examination of this property.

For your information we are enclosing two copies of Form NV-100 and Form NV-103, the applications of Henry V. Small. Please return these when you have completed your report.

Very truly yours,

Tom Lyon, Chairman
Coordinating Committee

Enclosures 4

JWAltrba
Approved: 6-5-51

For, Bureau of Mines

For, Geological Survey

Copy to Executive Secretary, DMA
Copper Branch
Coordinating Committee
Mr. Hoag

Administrator's Reading File
DMA Commodity Man
Survey Commodity Man
Bureau Commodity Man
Files

Mal's Hoag

Gamer
3423

Re: Docket No. DMA-51AX
Henry V. Small
Copper
Exploration Aid

Mr. J. H. East, Jr.
Executive Officer
DMA Field Team, Region IV
224 New Customhouse
Denver 2, Colorado

Dear Mr. East:

The application for an exploration loan of Henry V. Small, 4125 South Figueroa, Los Angeles 37, California, has been received by the Copper Branch after we wrote to you asking for a field team examination of this property.

For your information we are enclosing two copies of Form MY-100 and Form MY-103, the applications of Henry V. Small. Please return these when you have completed your report.

Very truly yours,

Tom Lyon, Chairman
Coordinating Committee

Enclosures 4
JWAlt:ba 6-5-51
Approved:

_____
for, Bureau of Mines

_____
for, Geological Survey

Copy to Executive Secretary, DMA
Copper Branch - who (man's name)
Coordinating Committee
Mr. Neon

Administrator's Reading File
DMA Commodity Man
Survey Commodity Man
Bureau Commodity Man
Files

FILE COPY
~~SURNAME:~~

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION
WASHINGTON 25, D. C.

REGIONAL DIRECTOR'S OFFICE
REGION IV
JUN 11 1951
BUREAU OF MINES
DENVER, COLORADO

Gowen
Johnson
Maclaren

JUN 7 1951

Re: Docket No. DMA-514X
Henry V. Snell
Copper
Exploration Aid

Mr. J. H. East, Jr.
Executive Officer
DMA Field Team, Region IV
224 New Customhouse
Denver 2, Colorado

Dear Mr. East:

The application for an exploration loan of Henry V. Snell, 4125 South Figueroa, Los Angeles 37, California, has been received by the Copper Branch after we wrote to you asking for a field team examination of this property.

For your information we are enclosing two copies of Form MF-100 and Form MF-103, the applications of Henry V. Snell. Please return these when you have completed your report.

Very truly yours,

Tom Lyon, Chairman
Coordinating Committee

Enclosures 4

Approved:

_____
for the Bureau of Mines

_____
for the Geological Survey

Los Angeles, Calif., May 16, 1951.

See Letter to East, 6-5-51
JBG:bn

Defense Minerals Administration,
(Copper Division)
Washington 25, D. C.

Dear Sirs: Re: Docket No. DMA-514 X

Enclosed find forms MF-100 and MF-103 covering application for exploratory loan. The original application was made on form NSPB-146 and filed in your office as Docket No. DMA-514.

Very truly yours,

Henry V. Snell

Henry V. Snell
4125 South Figueroa
Los Angeles 37, Calif.

HVS-M

FILE COPY
SURNAME:

Bowen
MacLaren

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION
WASHINGTON 25, D. C.

May 16, 1951

Re: Docket No. DMA-514

Mr. J. H. East, Jr.
224 New Customhouse
Denver 2, Colorado

Dear Mr. East:

We are forwarding an application for a $20,000 Government participation exploration project from Mr. Henry V. Snell, 4125 South Figueroa, Los Angeles 37, California. This application was originally submitted for a $200,000 operating loan. We suggested that on the basis of information submitted to us this should be an exploration project on a 50-50 basis. We have received a letter from him asking that his application be so considered.

Will you please arrange for a Field Team to look at this property and submit a report from the viewpoint of an exploration project.

Very truly yours,

Tom Lyon pB.

Tom Lyon, Director
Coordinating Committee

Attachments

APPROVED:

Lowell B. Moon

Member, Bureau of Mines

Member, Geological Survey

DRMacLaren:pf
Copy to: Mr. East, Executive Officer, DMA Field Team, Region IV
224 New Customhouse, Denver 2, Colorado (2)
Executive Secretary
Copper Branch
Mr. Lyon
Mr. Moon
Mr. MacLaren
Files

LANDON F. STROBEL

Mr. Gowen

answered 5-16-51 DM:Gf

Los Angeles, Calif., May 7, 1951.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAY 1 0 1951
LANDON F. STROBEL
Executive Secretary

Mr. J. B. Gowen,
Acting Chief, Copper Branch, DMA
Defense Minerals Administration
Washington 25, D. C.

RE: DMA-514

Dear Mr. Gowen:

In my letter to you dated April 25th last, I stated that 50% participation by me in the costs of an exploration program was more than I could carry. Through negotiation, not contemplated or available at the time I wrote, I am able to participate or invest to the extent of $10,000.00 which will, with Government participation, supply an exploration fund of $20,000.00. This sum I think should be sufficient, as except for some road repair on the property and possibly a little trenching, my plan or idea would be to use all the funds for diamond drilling.

Mr. Tom Lyons' letter of March 21st states that my original application had been carefully reviewed and indicates that I perhaps could take advantage of the exploratory program of the Defense Minerals Administration. Your letter of April 9th has the same slant.

Can I assume, or could you give me assurance, that I can be reasonably sure of getting favorable action on this exploratory loan? Naturally it is necessary to have some basis on which to predicate my negotiations mentioned above.

In order to expedite the matter in the mails I am enclosing self-addressed airmail envelope, and will appreciate your early reply.

Very truly yours,

Henry V. Snell

Henry V. Snell
4125 South Figueroa
Los Angeles 37, Calif.

HVS-M

BUREAU OF MINES
WASHINGTON, D. C.

MAY 10 11 43 AM '51

~~LANDON F. STROBEL~~
Bowen

answered 6-4-51 gwa.

Los Angeles, California April 25, 1951.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
APR 27 1951
LANDON F. STROBEL
Executive Secretary

Mr. J. B. Gowen,
Acting Chief Copper Branch, DMA
Defense Minerals Administration,
Washington 25, D. C.

Dear Mr. Gowen: Docket No. DMA-514

I have your letters of April 9th, and of April 19th with exploratory loan application forms enclosed.

In my original loan application on Form NSPB-146 (now your Docket DMA-514), I brought out on page 8 of that form that I still owe $5,000.00 on my purchase obligation before I have title as sole owner of the property.

In my opinion, the very least amount that should be considered as an exploratory fund is $15,000.00. This figure may be too low as it is more or less based on contract drilling rates of some years ago on a project with which I was associated. If it were decided that the proper exploration would be through shaft and drifting therefrom the $15,000.00 of course would be entirely inadequate.

My part of the $15,000.00 would be $7,500.00, which with my obligation of $5,000.00 which I necessarily must meet would make a load more than I can carry right now. On March 21st Mr. Tom Lyon wrote me and sent me copy of "Information Release" of February 20, 1951, and in the last sentence of paragraph 5, on page 2, it states:

> "However, in exceptional cases involving the most strategic and critical metals and minerals the Secretary may depart from the matching principle in whole or in part if he finds that such action is necessary to accomplish the objectives of the program."

Based on every statement I have seen in the press, also Government releases, copper is certainly critical, and further corroborating this statement the Engineering and Mining Journal, which is accepted as top authority, in its current issue of April, 1951, states, "The supply of copper continues inadequate", and therefore it seems to me I should qualify under the paragraph quoted above and get total, or practically total, as the Government's proportion of the exploratory fund.

I think if you will review the maps and data in my file you will agree that the possibilities of my property warrant the application of the principle set out in the paragraph quoted above from the "Information Release".

Awaiting your early reply, I am,

Very truly yours, Henry V. Snell

HVS-M

4125 So. Figueroa, Los Angeles 37, California.

BUREAU OF MINES
WASHINGTON, D. C.

APR 27 10 31 PM '51

FILE COPY
SURNAME:

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION
WASHINGTON 25, D. C.

April 19, 1951

Docket No. DMA-514

Mr. Henry V. Snell
4125 S. Figueroa St.
Los Angeles 37, Calif.

Dear Mr. Snell:

Enclosed herewith is a copy of a press release dated April 11, 1951, a copy of the pertinent regulations, Form MO-5 also five copies each of the Form MF-100 (General Technical Data) and Form MF-103 (Application for Aid for an Exploration Project).

Very truly yours,

J. B. Gowen, Acting Chief
Copper Branch, DMA

Enclosures

JBGowen:bal

Copy to: Executive Secretary
Copper Branch
Files

Dmar 514

852

April 19, 1951

Docket No. DMA-514

Mr. Henry V. Snell
4125 S. Figueroa St.
Los Angeles 37, Calif.

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Very truly yours,

J. B. Gowen

J. B. Gowen, Acting Chief
Copper Branch, DMA

Enclosures

JBGowen:bal

Copy to: Executive Secretary
Copper Branch
Files

FILE COPY
SURNAME:

J. Lyon

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION
WASHINGTON 25, D. C.

April 9, 1951

Re: Docket No. DMA-514

Mr. Henry V. Snell
4125 South Figueroa Street
Los Angeles 37, California

Dear Mr. Snell:

Thank you for your letter of March 27, 1951 addressed to Mr. Lyon, formerly Chief of the Copper Branch.

We are pleased to have your comments on the proposed exploratory program and shall be glad to send you the application forms and regulations as soon as they are available, hoping that something can be worked out for the King-Hecla Mine.

Very truly yours,

J. B. Gowen
J. B. Gowen, Acting Chief
Copper Branch, DMA

CHJohnson:pf

Executive Secretary w.c.i
Copy to: Executive Officer, DMA Field Team, Region IV,
224 New Customhouse, Denver 2, Colorado w.c.i.
Copper Branch w.c.i.
Files

DMA-514

836

5

B2

April 9, 1951

Re: Docket No. DMA-514

Mr. Henry V. Snell
1125 South Figueroa Street
Los Angeles 17, California

Dear Mr. Snell:

Thank you for your letter of March 27, 1951 addressed to Mr. Lyon, formerly Chief of the Copper Branch.

We are pleased to have your comments on the proposed exploratory program and shall be glad to send you the application forms and regulations as soon as they are available, hoping that something can be worked out for the King-Hecla Mine.

Very truly yours,

W. E. Gowen
J. B. Gowen, Acting Chief
Copper Branch, DMA

CHJohnson:pf

Copy to: Executive Secretary w.c.i.
Executive Officer, DMA Field Team, Region IV, 224 New Customhouse, Denver 2, Colorado w.c.i.
Copper Branch w.c.i.
Files

Prescott, Arizona, March 27, 1951

Mr. Tom Lyon,
Chief, Copper Branch, Defense Minerals Administration,
Washington 25, D. C.

Dear Mr. Lyon: Re: Docket No.DMA-514

I have your letter of March 21st on above subject matter.

It is true that I have no ore reserves, as such, and as set out in my application could start producing only a limited tonnage from the small veins while the large vein is being explored and opened up for production. Frankly, the mine has to be made on the large vein - the small veins in themselves are only feeders and indicators of the general mineralization. The large vein is thoroughly leached, showing occasional stain and small bunches of ore, but is a natural for secondary enrichment, and I feel quite certain oxidized ore bodies are going to be found in the quartzite and lime above the permanent water level.

I have no objection whatever to the exploratory program idea, in fact, it might be the prudent plan as a few drill holes to depth in the large vein would be very informative. I do, however, have the same objection to the matching funds idea as held by the Arizona Small Mine Operators Association, and ably expressed by Charley Willis, its secretary, "If we had our own funds we would be working now".

As set out in the "Information Service" release of February 20th, which you enclosed, it certainly would be proper that the Government be repaid as set out in par. 1 of pg. 2; also, it would seem to me that the project would have to be carried out project by project, as set out in par. 3, pg. 2, and if the principle set out in the last sentence of par. 5, pg. 2, viz., "However, in exceptional cases involving the most strategic and critical metals and minerals the Secretary may depart from the matching principle in whole or in part if he finds that such action is necessary to accomplish the objectives of the program.", the program would get quick results.

Several months ago, in fact, last year, I visited the Tucson office of the Bureau of Mines to interest them in using some of their exploratory funds on my property, but all the funds they had were allocated principally to manganese. They took copies of my maps and reports and my impression was that they were favorably impressed and inclined. They of course knew Carl Lausen (who collaborated in the geological data I submitted) and his work at the Arizona State Bureau of Mines and his recognized ability. He had also been mine geologist at one of the large mines in the district in which my property is located and so was intimately familiar with that district.

I shall be glad to have you send me the application forms as you suggest and see if we cannot work out something, as I am convinced I have a sizeable mine waiting to be demonstrated.

I have just completed my work here and will be in Los Angeles for some time, so in future please address all correspondence to me at

Mr. Henry V. Snell
4125 South Figueroa Street
Los Angeles 37, California

Very truly yours, /s/

HVS-M

Proceeds, Antrim, March 27, 1954

Mr. Tom Lyon,
Chief, Ocean Energy, Defense Materials Administration,
Washington 25, D. C.

Dear Mr. Lyon:

Re: Docket 10,445-DM

I have your letter of March 23rd on above subject matter.

It is true that I have no ore reserves, as such, and do not out by my application could start production only a limited tonnage from the small mine while the large vein is being explored and opened up for production. Usually, the mine has to be made on the large vein - the small mine in themselves are only feeders and indications of the general mineralization. The large vein is thoroughly limited, showing considerable assay and small tonnage of ore, but is a natural for economy measurement, and I feel quite confident evidence are robbing are going to be found in the quantity and size above the permanent water level.

I have no objection whatever to the preliminary program idea. In fact, it might be the permanent plan as a few drill holes to depth in the large vein would be very informative. I do, however, have the same objection to the mandatory funds that are held by the Antrim Small Mine Operators Association and fully expressed by Charlie Mills, the secretary. If we had our own funds we would be worth, and.

As set out in the "Information Service" release of February 20th, which you enclosed, it certainly would be proper that the forewords in regard as set out in part I of pg. 2; also, it would seem to me that the members would have to be carefully analyzed by subject, as set out in par. 1, pg. 2, and in the particulars set out in the last sentence of par. 1, pg. 2, viz., "However, in exceptional cases involving the most meritorious and efficient investigations and technology may depart from the matching method in whole or in part if it is felt that such action is necessary to accomplish the objectives of the program." The program would be quite feasible.

Several months ago, in fact, last year, I visited the Tucson office of the Bureau of Mines to interest them in making some of their equipment funds available, but all the funds they had were allocated, unfortunately, to maintenance. Many book copies of my reports and records are my impression was that they were favorably impressed and interested. They of course knew that Antrim the collaboration in the geological data I submitted and that work at the Arizona office Bureau of Mines and his recognized ability. He had also been quite prolific in one of the large mines in the district in which my property is located and so was thoroughly familiar with this district.

I shall be glad to have you keep me the application there as you suggest and see if we cannot work out something, as I am convinced I have a sizeable mine waiting to be demonstrated.

I have just completed my work here and will be in Los Angeles for some time, so in future please address all correspondence to me at

Mr. Henry A. Stoll
1424 South Hampton Street
Los Angeles 35, California

Very truly yours, /s/

HAS-M

LANDON F. STROBEL

Prescott, Arizona, March 27, 1951

Mr. Tom Lyon,
Chief, Copper Branch, Defense Minerals Administration,
Washington 25, D. C.

Dear Mr. Lyon: RE: Docket No. DMA-514

I have your letter of March 21st on above subject matter.

It is true that I have no ore reserves, as such, and as set out in my application could start producing only a limited tonnage from the small veins while the large vein is being explored and opened up for production. Frankly, the mine has to be made on the large vein -- the small veins in themselves are only feeders and indicators of the general mineralization. The large vein is thoroughly leached, showing occasional stain and small bunches of ore, but is a natural for secondary enrichment, and I feel quite certain oxidized ore bodies are going to be found in the quartzite and lime above the permanent water level.

I have no objection whatever to the exploratory program idea, in fact, it might be the prudent plan as a few drill holes to depth in the large vein would be very informative. I do, however, have the same objection to the matching funds idea as held by the Arizona Small Mine Operators Association, and ably expressed by Charley Willis, its secretary, "If we had our own funds we would be working now".

As set out in the "Information Service" release of Feb. 20th, which you enclosed, it certainly would be proper that the Government be repaid as set out in par. 1 of pg. 2; also, it would seem to me that the project would have to be carried out project by project, as set out in par. 3, pg. 2, and if the principle set out in the last sentence of par. 5, pg. 2, viz., "However, in exceptional cases involving the most strategic and critical metals and minerals the Secretary may depart from the matching principle in whole or in part if he finds that such action is necessary to accomplish the objectives of the program.", the program would get quick results.

Several months ago, in fact, last year, I visited the Tucson office of the Bureau of Mines to interest them in using some of their exploratory funds on my property, but all the funds they had were allocated principally to manganese. They took copies of my maps and reports and my impression was that they were favorably impressed and inclined. They of course knew Carl Lausen (who collaborated in the geological data I submitted) and his work at the Arizona State Bureau of Mines and his [illegible]ility. He had also been mine geologist at [illegible] the district in which my property is locat[illegible]miliar with that district.

I [illegible] me the application forms as you [illegible] something, as I am convin[illegible] be demonstrated.

3/29/51 Lyon - reply

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAR 29 1951
LANDON F. STROBEL
Executive Secretary

RECEIVED
8:20 am
MAR 27 1951
DEFENSE MINERALS ADMINISTRATION
OFFICE OF ADMINISTRATOR

Prescott, Arizona, March 24, 1951.

Dr. James Boyd,
Administrator of the Defense Minerals Administration,
Washington, D. C.

Ans'd 4/9/51
EHJ:Ma

Dear Dr. Boyd:

I am writing you direct because, as the saying goes, I would like to get some information "right out of the horse's mouth".

A little over two months ago I filed an application for a mine loan on a property I have in the Globe-Miami district, which I think will make a copper mine. I am supported in this belief by two able geologists (Carl Lausen and William Porri) who made a report and detail geological maps on this property, copies of which accompany my application.

To justify my opinion, I will say that I got my E. M. from Michigan College of Mines and Technology in 1900, and have operated largely in the Southwest ever since and many years in the Globe-Miami district. I do not want to bore you with a lot of detail, but as background will state that with associates I bought the principal part of what is now Magma Copper, at Superior, Arizona, and sold it to George Gunn of Salt Lake and W. B. Thompson of New York, who organized the present Magma Company. I had under option a considerable part of the Inspiration ore body which was taken over from me into the present company; I bought as a prospect and developed the first asbestos mine opened in Arizona and later sold it to the Johns-Manville Company, and as stated in my application worked at numerous properties in the area.

Your Bureau of Mines office in Tucson is familiar with this property as I approached them last year to get the Bureau to use some of their exploration funds on my property. They had no allocated funds but apparently were favorably impressed through their knowing Carl Lausen and his work on the Arizona State Bureau of Mines. The Tucson office kept copies of the report and maps I submitted. It happens that I have known Charley Kumke of your Tucson office for 35 years - he is directing the Manganese Explorations out of that office.

The file number of my application is "DOCKET NO. DMS-514". I am going to ask you to look at it. To coordinate certain activities that I must act on very soon I would like to know as early as possible what action I may expect on my application.

Thanking you for any information you may give me, I am,

Very truly yours,

Henry V. Snell

Henry V. Snell, P. O. Box 1947
Prescott, Arizona

HVS-M

March 21, 1951

Re: Docket No. DMA-514

Mr. Henry V. Snell
Box 1947
Prescott, Arizona

Dear Mr. Snell:

This is in reply to your letter of March 17, 1951. Your application for a loan of $200,000 to develop and operate the King-Hecla group of copper claims in Gila County, Arizona was reviewed rather carefully by the Copper Branch. It was noted that no ore reserves are established such as would be necessary to operate at current prices and to permit repayment of the loan. We concluded that you might perhaps be able to take advantage of the exploratory program of the Defense Minerals Administration and as we have been expecting from week to week to be able to announce that program we failed to act as promptly on your application as we should like to have done. I am enclosing a preliminary announcement of the exploratory program and as soon as the regulations and application forms are available these will be sent to you.

Very truly yours,

Tom Lyon

Tom Lyon, Chief
Copper Branch

CHJohnson:pf

Copy to: Executive Officer, DMA Field Team, Region IV,
224 New Customhouse, Denver 2, Colorado w.c.i.
Executive Secretary w.c.i.
Copper Commodity Committee w.c.i.
Files

Prescott, Arizona, March 17, 1951

Mr. Tom Lyon,
C/O Defense Minerals Administration, Copper Division
Washington 25, D. C.

Dear Mr. Lyon:

I had a contacting acquaintance with Mr. J. K. Richardson through mutual friends and wrote him a personal letter to Washington in regard to a mine loan application I have on file. I received an answer from Mr. Richardson from Salt Lake in which he gave me your name as the one to whom to write. You of course do not know me.

The application I have filed for a Federal loan is to open a property that I think will make a copper mine, and my opinion is strongly supported by two able geologists, as outlined in their report and detailed geological maps accompanying my application.

I have operated in the Southwest for many, many years as a Mining Engineer at various mines and to a large extent on my own account. I do not want to bore you with a lot of detail but I do feel I should give you a little of my background: With associates I bought the claims which are now the Magma Copper Company and sold them to George Gunn of Salt Lake and W. B. Thompson of New York, who organized the present Magma Company; I also held options on claims covering a considerable part of the Inspiration ore body and they were taken over from me when the present Inspiration Company was formed; I also bought as a prospect and developed the first asbestos mine in Arizona and later sold it to the Johns-Manville Company.

The file number of my application is "DOCKET NO. DMA-514". I am going to ask you to look at it. To coordinate certain activities that I must act on very soon I would like to know as early as possible what action I may expect on my application.

As I outlined in my application, I cannot move large tonnages at the start but in a reasonable time I believe I can supply sizeable amounts of copper which the country needs.

The Tucson, Arizona, office of Bureau of Mines is familiar with the property throught the fact of having copies of reports and maps, and their knowledge of Carl Lausen (with the Arizona Bureau of Mines for quite some time) who was a co-maker of report and detail geological maps accompanying my application, was very favorable.

Thanking you for any information you may give me, I am,

Very truly yours,

/s/

Henry V. Snell, P.O. Box 1947
Prescott, Arizona

HVS-M

COPY

Prescott, Arizona, March 17, 1951

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Washington 25, D. C.

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/s/

Henry V. Snell, P.O. Box 1947
Prescott, Arizona

HVS-M

COPY

Prescott, Arizona, March 27, 1951

Mr. Tom Lyon,
Chief, Copper Branch, Defense Minerals Administration,
Washington 25, D. C.

Dear Mr. Lyon: Re: Docket No.DMA-514

I have your letter of March 21st on above subject matter.

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I shall be glad to have you send me the application forms as you suggest and see if we cannot work out something, as I am convinced I have a sizeable mine waiting to be demonstrated.

I have just completed my work here and will be in Los Angeles for some time, so in future please address all correspondence to me at

Mr. Henry V. Snell
4125 South Figueroa Street
Los Angeles 37, California

Very truly yours, /s/

HVS-M

Los Angeles, Calif., May 16, 1951

Defense Minerals Administration
Copper Division
Washington 25, D. C.

Re: Docket No. DMA-514X

Dear Sirs:

Enclosed find Forms MF-100 and MF-103 covering application for exploratory loan. The original application was made on Form MSRB-146 and filed in your office as Docket No. DMA-514.

Very truly yours,

Henry V. Snell
4125 South Figueroa
Los Angeles 37, California

COPY

Los Angeles, Calif., May 16, 1951

Defense Minerals Administration
Copper Division
Washington 25, D. C.

Re: Docket No. DMA-514X

Dear Sirs:

Enclosed find Forms MP-100 and MP-103 covering application for exploratory loan. The original application was made on Form DMMB-146 and filed in your office as Docket No. DMA-514.

Very truly yours,

Henry V. Small
4175 South Figueroa
Los Angeles 37, California

COPY

Los Angeles, Calif., May 16, 1951

Defense Minerals Administration
Copper Division
Washington 25, D. C.

Re: Docket No. DMA-514X

Dear Sirs:

Enclosed find Forms MF-100 and MF-103 covering application for exploratory loan. The original application was made on Form DSMB-146 and filed in your office as Docket No. DMA-514.

Very truly yours,

Henry V. Small
4125 South Figueroa
Los Angeles 37, California

COPY

February 7, 1951

Re: Docket No. DMA-514

Mr. Henry V. Snell
Box 1947
Prescott, Arizona

Dear Mr. Snell:

This is to acknowledge receipt of your letter dated January 18, 1951 (which was not received by the Defense Minerals Administration until January 29) transmitting an application on Form RFC-116 for a loan of $200,000 to explore the King-Heela group of copper claims in Gila County, Arizona.

The application has been assigned the above docket number, to which reference would be made in any future communication, and has been referred to the Copper Branch for consideration.

Very truly yours,

/s/ Tom Lyon for

J. K. Richardson
Chief, Copper Branch

CHJohnson:pf

Copy to: Executive Officer, DMA Field Team Region IV,
224 New Customhouse, Denver 2, Colorado
Executive Secretary
Copper Commodity Committee - Rm. 3425 noted
Files

March 21, 1951

Re: Docket No. DMA-514

Mr. Henry V. Snell
Box 1947
Prescott, Arizona

Dear Mr. Snell:

This is in reply to your letter of March 17, 1951. Your application for a loan of $200,000 to develop and operate the King-Hecla group of copper claims in Gila County, Arizona was reviewed rather carefully by the Copper Branch. It was noted that no ore reserves are established such as would be necessary to operate at current prices and to permit repayment of the loan. We concluded that you might perhaps be able to take advantage of the exploratory program of the Defense Minerals Administration and as we have been expecting from week to week to be able to announce that program we failed to act as promptly on your application as we should like to have done. I am enclosing a preliminary announcement of the exploratory program and as soon as the regulations and application forms are available these will be sent to you.

Very truly yours,

Tom Lyon

Tom Lyon, Chief
Copper Branch

CHJohnson:pf

Copy to: Executive Officer, DMA Field Team, Region IV,
224 New Customhouse, Denver 2, Colorado w.c.i.
Executive Secretary w.c.i.
Copper Commodity Committee w.c.i. Room 3423
Files

April 4, 1951

Re: Docket No. DMA-514

Mr. Henry T. Snell
P. O. Box 1947
Prescott, Arizona

My dear Mr. Snell:

This is in reply to your letter of March 24, 1951, with reference to your application for a production loan for the King-Neale mine at Globe, Arizona.

I have asked Mr. Lyon, who is now Director of the Supply Division, Defense Minerals Administration, about this application and he tells me that he wrote to you, on March 21, a letter which you should have received shortly after writing me. I gather that careful inspection of the information submitted by you with your application showed that the project was essentially one of exploring for additional ore reserves rather than a case of established ore reserves upon which a production project and loan could be based. Mr. Lyon tells me that he sent you a copy of the preliminary announcement of the forthcoming exploratory program of Defense Minerals Administration and I trust that this may prove of interest to you.

Sincerely yours,

JAMES BOYD

Administrator

CPJohnson:ba
Administrator's Reading File
Copy to J. H. East, 224 New Customhouse, Denver 2, Colorado, W. C. I.
Executive Secretary, W. C. I.
Copper Commodity Committee, W. C. I. - Rm. 3423
Files

April 9, 1951

Re: Docket No. DMA-514

Mr. Henry V. Snell
4125 South Figueroa Street
Los Angeles 37, California

Dear Mr. Snell:

Thank you for your letter of March 27, 1951 addressed to Mr. Lyon, formerly Chief of the Copper Branch.

We are pleased to have your comments on the proposed exploratory program and shall be glad to send you the application forms and regulations as soon as they are available, hoping that something can be worked out for the King-Hecla Mine.

Very truly yours,

J. B. Cowen, Acting Chief
Copper Branch, DMA

CHJohnson:pf

Copy to: Executive Secretary w.c.i.
Executive Officer, DMA Field Team, Region IV, 224 New Customhouse, Denver 2, Colorado w.c.i.
Copper Branch w.c.i.
Files

April 19, 1951

Docket No. DMA-514

Mr. Henry V. Snell
4125 S. Figueroa St.
Los Angeles 37, Calif.

Dear Mr. Snell:

Enclosed herewith is a copy of a press release dated April 11, 1951, a copy of the pertinent regulations, Form MO-5 also five copies each of the Form MF-100 (General Technical Data) and Form MF-103 (Application for Aid for an Exploration Project).

Very truly yours,

J. B. Gowen, Acting Chief
Copper Branch, DMA

Enclosures

JBGowen:bal

Copy to: Executive Secretary
Copper Branch
Files

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION
WASHINGTON 25, D. C.

May 16, 1951

Re: Docket No. DMA-514

Mr. Henry W. Snell
4125 South Figueroa
Los Angeles 37, California

Dear Mr. Snell:

We are glad to have your letter of May 7, in which you ask for assurance of favorable action on a proposed 50 percent Government exploratory project for $20,000. We are requesting a field team to make an examination of your proposal. You should receive a letter from Mr. J. H. East, Jr., in the near future, to arrange for this examination. Until we receive the report from the field team we will not be able to give any assurance of what action may be recommended.

We were about to mail a reply to yours of April 25, in which we hoped to clarify the special consideration clause in the Information Release of February 20, 1951. This paragraph was intended to provide for changes in the various commodity percentages in the event the supply-demand situation were to change. It was not meant to suggest that different projects in a given commodity group, as copper, would receive different treatment dependent on their individual merits or needs.

Very truly yours,

Tom Lyon
pb.

Tom Lyon, Chairman
Coordinating Committee

DMacLaren:pf

Copy to: J. H. East, Executive Officer, DMA Field Team,
224 New Customhouse, Denver 2, Colorado (2)
Executive Secretary
Mr. Lyon
Mr. Moon
Mr. MacLaren
Files

June 15, 1951

Mr. Henry V. Snell
4125 South Figueroa Street
Los Angeles 37, California

Subject: DMA-514X
Re: Exploration Loan
King Hecla Group

My dear Mr. Snell:

Receipt is acknowledged of your application and attachments of May 21, 1951 for an exploration loan under the Defense Production Act of 1950.

The application was assigned Docket Number DMA-514X and was referred to Mr. J. B. Gowen, Chief, Copper Branch on May 23, 1951.

In any future correspondence relating to your application, kindly refer to DMA-514X.

Sincerely yours,

LANDON F. STROBEL

Landon F. Strobel
Executive Secretary

LFSTROBEL:js
cc: Strobel-2
Files
>Gowen
Lyon

February 7, 1951

Re: Docket No. DMA-514

Mr. Henry V. Small
Box 1947
Prescott, Arizona

Dear Mr. Small:

This is to acknowledge receipt of your letter dated January 18, 1951 (which was not received by the Defense Minerals Administration until January 29) transmitting an application on Form NSRB-146 for a loan of $200,000 to explore the King-Neola group of copper claims in Gila County, Arizona.

The application has been assigned the above docket number, to which reference would be made in any future communication, and has been referred to the Copper Branch for consideration.

Very truly yours,

/s/ Tom Lyon for

J. K. Richardson
Chief, Copper Branch

CHJohnson:pf

Copy to: Executive Officer, DMA Field Team Region IV,
224 New Customhouse, Denver 2, Colorado
Executive Secretary, DMA
Copper Commodity Committee
Files

LANDON F. STROBEL

dmd-514

Prescott, Arizona, January 18, 1951.

Dr. James Boyd,
Administrator of the Defense Minerals Administration,
Washington, D. C.

JAN 29 2 PM '51
BUREAU OF MINES
WASHINGTON, D. C.

Dear Sir:

I, the applicant, Henry V. Snell, submit an original and three copies of application for mining loan, answering the questions on Form NSRB-1460, endeavoring, as well as I am able, to apply this form to the subject of mining.

As suggested on the last page of Dr. Boyd's press release of October 5, 1950, to further amplify and clarify the application, I am submitting my own short report on the property and a detail report and geological maps made by W. Porri and Carl Lausen. Messrs. Porri and Lausen were very able men and as both had been geologists for large operating companies in this district were obviously well qualified to pass on a property therein.

Mr. Porri was killed in an automobile accident some years ago. I have lost track of Mr. Lausen, the last I heard of him being some years ago when he was with the Arizona State Bureau of Mines where he did the field work and wrote some of the Bulletins issued by the Bureau.

The applicant operated as a mining engineer in this district for a number of years and was at various times with three of the large operating mines and does feel that he is qualified to judge and has a good understanding of this area. I was impressed by the property from the first as having the potentials of a really sizeable copper operation, and have kept in occasional touch over the years until finally making arrangements to take the property over. The peoperty being in a large proven operating area is favorably located as to base of supplies, labor supply and proximity to reduction plants. It is in my opinion an exceptionally good mining risk.

The writer first contacted this property over 30 years ago through the two prospector-miners who located it and through the survival of one of the locators the title has until recently been maintained in their hands.

The Bureau of Mines office in Tucson is familiar with this property, at least to the extent of having copies of the Porri-Lausen reports and maps, in connection with my having sought Bureau of Mines funds for exploratory work.

Very truly yours,

Henry V. Snell

HVS-M

Henry V. Snell, E. M.
P. O. Box 1947,
Prescott, Arizona

Letter accompanying Application for Mine Loan by Henry V. Snell, P.O. Box 1947, Prescott, Arizona.

Prescott, Arizona
March 24, 1951

Dr. James Boyd
Administrator of the Defense Minerals Administration
Washington, D. C.

COPY

Dear Dr. Boyd:

I am writing you direct because, as the saying goes, I would like to get some information "right out of the Horse's mouth".

A little over two months ago I filed an application for a mine loan on a property I have in the Globe-Miami district, which I think will make a copper mine. I am supported in this belief by two able geologists (Carl Lausen and William Porri) who made a report and detail geological maps on this property, copies of which accompany my application.

To justify my opinion, I will say that I got my E. M. from Michigan College of Mines and Technology in 1900, and have operated largely in the Southwest ever since and many years in the Globe-Miami district. I do not want to bore you with a lot of detail, but as background will state that with associates I bought the principal part of what is now Magma Copper, at Superior, Arizona, and sold it to George Gunn of Salt Lake and W. B. Thompson of New York, who organized the present Magma Company. I had under option a considerable part of the Inspiration ore body which was taken over from me into the present company; I bought as a prospect and developed into the present company; I bought as a prospect and developed the first asbestos mine opened in Arizona and later sold it to the Johns-Manvaille Company, and as stated in my application worked at numerous properties in the area.

Your Bureau of Mines office in Tucson is familiar with this property as I approached them last year to get the Bureau to use some of their exploration funds on my property. They had no allocated funds but apparently were favorable impressed through their knowing Carl Lausen and his work on the Arizona State Bureau of Mines. The Tucson office kept copies of the report and maps I submitted. It happens that I have known Charley Kumke of your Tucson office for 35 years - he is directing the Manganese Explorations out of that office.

The File number of my application is "DOCKET NO. DMA-514" I am going to ask you to look at it. To coordinate certain activities that I must act on very soon I would like to know as early as possible what action I may expect on my application.

Thanking you for any information you may give me, I am,

Very truly yours,

Henry V. Snell, P. O. Box 1947
Prescott, Arizona

LANDON P. STROBEL

Prescott, Arizona, January 18, 1951.

Dr. James Boyd,
Administrator of the Defense Minerals Administration,
Washington, D. C.

JAN 23
BUREAU OF MINES
WASHINGTON, D.C.

~~1-4-51~~
1-30-51
RICHARDSON

Dear Sir:

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The applicant operated as a mining engineer in this district for a number of years and was at various times with three of the large operating mines and does feel that he is qualified to judge and has a good understanding of this area. I was impressed by the property from the first as having the potentials of a really sizeable copper operation, and have kept in occasional touch over the years until finally making arrangements to take the property over. The peoperty being in a large proven operating area is favorably located as to base of supplies, labor supply and proximity to reduction plants. It is in my opinion an exceptionally good mining risk.

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Very truly yours,

Henry V. Snell

Henry V. Snell, E. M.
P. O. Box 1047,
Prescott, Arizona

[illegible]

[illegible] accompanying Application for Mine Loan by [illegible] Snell, P.O. Box 1047, Prescott, Arizona

Form NSRB-146
(Nov. 1950)

UNITED STATES GOVERNMENT

APPLICATION FOR GOVERNMENT LOAN
UNDER SEC. 302 OF
DEFENSE PRODUCTION ACT OF 1950

FORM APPROVED
BUDGET BUREAU NO. 25-R002

AMOUNT OF LOAN REQUESTED
$200,000.00

TERMS OF LOAN REQUESTED
To be agreed upon

DATE OF APPLICATION

TO BE FILLED IN BY DELEGATE AGENCY

(DATE RECEIVED)

COMM.
AGRIC.
INT.
D.T.A.

NAME AND ADDRESS OF APPLICANT (Street, City, Zone, State)

HENRY V. SNELL
P. O. Box 1947
Prescott
Arizona

1. PURPOSE OF LOAN

General Statement

The Applicant, Henry V. Snell, has a group of mining claims located in the Globe-Miama district, Gila County, Arizona, which, based on the opinion of the Applicant and other competent authority (reports accompanying), will develop into a substantially large producing copper mine. The property is a direct extension of the old producing area and while the large vein, classed as the main vein, is thoroughly leached at the surface, indicating secondary deposition at depth, the smaller and less leached veins have ore exposures from which some preliminary or early production can be had while developing the large main vein. There are also manganese (pyrolusite) exposures worthy of exploration. The Applicant made some managanese shipments during the first world war from ground adjacent to this group.

The purpose of this loan is to equip and develop this property to the substantial production competent authorities believe possible, as set forth in accompanying reports.

Nature of Expenditure

There is no equipment on the property, so complete plant will have to be supplied, including machinery, tools, trucks, buildings, power, water supply, etc. This equipment will have to be supplied before beginning shallow operations on small veins, also before beginning the development of the large main vein. Rather than try to itemize equipment expenditures the Applicant thinks it would be wiser under present market conditions to make a general estimate. The Applicant has found in purchasing for a currently operating property that prices are changing so rapidly that no estimate on future prices can be at all accurate. As prices are quoted today the Applicant estimates it will take from $40,000.00 to $50,000.00 to properly equip this property for the contemplated operation.

An additional $150,000.00 to $160,000.00, making a total of $200,000.00, should be spent on the property to bring to substantial production. The Applicant maintains that the potentials of this property (as set forth in his accompanying report), to be developed properly will require the amount of loan being applied for, and his views in this respect are fully corroborated by an analysis of the Porri and Lausen report accompanying.

Total amount applied for $200,000.00

2. PROPOSED METHOD FOR REPAYMENT OF LOAN

State sources of funds, and proposed schedule of repayment

It is proposed to repay by royalty on production, amount to be agreed upon.

3. NATURE OF BUSINESS AND DESCRIPTION OF PROJECT

Describe fully the business activity for which the funds are intended. In so doing, identify the materials and services to be produced, describe the facilities and processes involved, and explain in detail any research activity and the nature of the results expected. Attach blueprints and specifications, if available, and furnish other technical details to the extent that they are not covered elsewhere in the application.

Funds are to be used entirely as outlined in "Nature of Expenditure", Page 1 of this Application, in the development and production of ores known and potential, containing copper, lead, silver and manganese.

4. **Relationship to National Defense.** Explain carefully how the expenditure of the funds will contribute to national defense. As a part of such explanation, the following questions should be answered to the extent possible:

(a) What evidence exists as to current shortages of the materials or services to be produced?

Shortage of copper and silver, especially copper, is evidenced by Government cut-back of civilian use and non-fulfillment of national stockpiling requirements.

(b) What evidence exists as to future shortages of the materials or services to be produced?

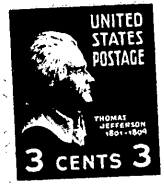
The statistical evidence of production and consumption of copper and lead indicates that this shortage will continue for some years.

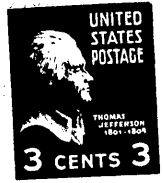
(c) Are such shortages, if any, regional or national in scope?

Shortages not only are national but world-wide.

(d) In what respects will the use of the funds aid directly in expediting the carrying out of government defense contracts? (A listing of defense contracts, if any, held by applicant is required in item 8 below.)

The use of the funds will expedite the supplying of copper and lead for the Government's use.
I have no defense contracts of any kind.





VIA AIR MAIL

Mr. Henry W. Snell,

4125 South Figueroa

Los Angeles 37, Calif

4. Relationship to National Defense - Continued

(e) In what respects will the use of the funds aid indirectly in expediting the carrying out of government defense contracts or related operations?

It will supply copper and lead for any use the Government or nation may require.

(f) Are there available alternative methods or facilities to accomplish the same purpose as that for which these funds are intended? (For instance, unused capacity, possibility of multiple shift operations, idle facilities, readily convertible equipment, sub-contracting?) If answer is yes, explain why alternatives are not used.

There are no available alternative methods to accomplish the same purpose.

5. Maximum Designed Production

List separately materials or services identified in item 3 (a)	Unit of measure (b)	Maximum designed production with existing facilities (c)	Average percentage of maximum designed production used in quarter preceding filing of application (d)	Maximum designed production including use of funds applied for (e)
My aim is to arrive	Tons	Not operating	No production -	100 tons
as quickly as possible		but with pro-	not operating	plus per day
at a production of 100		per facilities		
tons per day of ore		expect to get		
carrying approximately		from 10 to 15		
5% Cu., 7% Pb., and an		tons per day		
appreciable amount of		from small		
silver. Manganese		veins.		
tonnage possible.				

6. Employment

(a) Number currently employed at location(s) where funds are to be used. (Use pay period ending nearest 15th of month preceding filing of application.)

None - not operating

(b) Maximum feasible employment with existing facilities.

(1) Single shift operation.

Not applicable - not operating

(2) Multiple shift operation (specify how many shifts).

None - not operating

(c) Estimated additional employees required by the use of the funds applied for.

Estimate will require about ten men at start and gradually increase to about forty men.

7. Timing

(a) On what date(s) are the requested funds needed?

Requested funds are needed to start operations, the sooner funds are available the sooner operations can start.

(b) On what expected date(s) will applicant begin to use such funds and obtain output from the use of such funds? Wherever possible, give planned schedule of output.

Starting of operations are dependent upon receipt of funds and time required for delivery of equipment - some production should start shortly after receipt of equipment.

8. Output from the use of funds applied for will be for the following purposes:

a. For the following principal prime defense contracts (if any) with the United States Government:

Date of contract (a)	Contracting Government Agency (b)	Program symbol (2 digits) or other contract identification (c)	Materials or services (d)	Delivery date(s) (e)	Amount (Dollars) (f)
Not applicable - I have no Government contracts					

b. For the following subcontracts (if any) with U.S. Government prime defense contractors:

Date of contract (a)	Materials or services (b)	Supplied to (Give name and address of firm) (c)	Delivery date(s) (d)	(e) Government agency receiving end product or services (f) Program symbol (2 digits) or other contract identification	Amount (Dollars) (g)
Not applicable - I have no subcontracts with the Government				(e) (f)	
				(e) (f)	
				(e) (f)	

c. For the following classes or types of customers not covered by contracts listed above (list materials or services to be provided and, wherever possible, also indicate final product use):

Not applicable.

9. **Feasibility**

(a) Estimate anticipated requirements for manpower, equipment, raw materials, energy, fuel, transportation facilities, water supply, housing, community facilities, and other factors of production, for (1) preparation of the facilities and (2) actual operation thereof. (The estimates may be limited to those factors of substantial significance to the preparation and operation of the facilities for which the funds are intended.)

I estimate 10 men will be required at start of operation, increasing to about 40 men as work progresses. Complete equipment to be purchased out of funds sought - see "Nature of Expenditure", Page 1; diesel oil will probably be used as fuel; good transporation facilities over county road; water supply can be developed on property; housing and community facilities not required as property is close to settled community; (1) as stated in "Nature of Expenditure", Page 1, complete plant will have to be supplied, including machinery, buildings, water supply, etc., before beginning operations; labor is available in nearby town.

(b) Discuss and evaluate the availability of each of the above factors in the area(s) where the funds will be used.

Covered in (a) above.

10. The following applications for necessity certificates for tax amortization (Under Section 124A of the Internal Revenue Code) for facilities at the location(s) covered by this application have been filed since January 1, 1950.

Date of application (a)	Government file number (b)	(Estimated) Total of facilities in dollars on each application (c)	(d) If final action has been taken, give date of	
			Issuance	Denial
I will want to qualify for tax amortization				

11. **Recent Efforts to Obtain Credit**

(a) Banks— List names and addresses of all Banks of Deposit of Applicant within the last 5 years: *(Mark with an asterisk (*) bank or banks in which deposits are now kept)*

Not operating, hence no banks of deposit. Personal bank account in Valley National at Prescott, Arizona.

11. **Recent Efforts to Obtain Credit** - Continued

(b) State efforts to obtain credit, within 60 days preceding date of application, from banks, the Reconstruction Finance Corporation, or other sources, results, and reasons if refused. (NOTE.- Section 302 of the Defense Production Act of 1950 states that a loan may be extended "only to the extent that it is not otherwise available on reasonable terms." Accordingly, Applicant should show that it has applied to each bank named in (a) above, or explain the reason for not doing so. The fact that a loan of the particular maturity and terms applied for is refused by a bank or banks is not sufficient to comply with the statute, if credit on reasonable terms is available. State whether a bank will participate in the loan, and if so, state name of bank and amount of participation. Full particulars must be given.) List the names and addresses of banks and other lending institutions to which applications for credit have been made, and in each case state date of application, amount of credit available, if any, maximum term for which credit is available, what consideration, if any, was given to possible guarantee of loan under Federal Reserve Regulation V, and reason for refusal or reason loan was not obtained. Indicate whether or not application was definitely refused for further credit on any basis.

No applications made, impossible to get risk or venture money from banks.

12. What other forms of government financial assistance, if any, have been received or requested by the applicant in connection with the purposes of the loan herein applied for? If applicant plans to request such assistance in the future, give details.

No requests for Government financial assistance have been made heretofore.

Future application for Government assistance may cover requirements for proper milling or beneficiation plant.

13. HISTORY, MANAGEMENT, LEASED AGREEMENTS, INSURANCE, ETC.

The operation will be under the management of Henry V. Snell, Applicant-owner, a graduate mining engineer of Michigan College of Mines and Technology, 1900, who has been active in the mining field ever since. Experience in the Globe-Miami District, in which subject property is located:

Applicant was Chief Mining Engineer at the Old Dominion Mining Company, Globe, Arizona, for five years; Manager of the Arizona Commercial Mine for two years; Manager of Superior & Boston Mine for two years; for six years the Applicant for his own account operated the Black Warrior Mine under lease. Over the years spent in this district the Applicant, with associates, acquired the principal area of what is now the Magma Copper Company at Superior, Arizona, and sold it to the present operating company; the same also applies to a considerable part of what is now the Inspiration Copper Company at Miami, Arizona.

14. NAMES AND ADDRESSES OF OFFICERS, DIRECTORS, OR PARTNERS, AND IN ADDITION THERETO, THE FIVE LARGEST STOCKHOLDERS IF A CORPORATION.

NAME AND ADDRESS (a)	Official title (If officer is also director indicate by "D") (b)	Total of annual salary, commissions, bonuses, etc., received from Applicant and affiliates during last fiscal year (c)	Estimated net worth outside of Applicant (d)	Number of shares held in applicant		Life insurance carried for benefit of Applicant	
				Common (e)	Preferred (f)	Amount (g)	Net cash surrender value after loans (h)
Not applicable							
	Total		x x x x x			x x x	x x x

15. CAPITAL STOCK ISSUES

For Corporate Applicants

Item	Authorized (a)	Outstanding (b)	Par value (c)	Number of shares outstanding (d)	Dividend rate last paid (e)
Common stock	$ Not applicable	$	$		
Preferred stock	$	$	$		

16. PURCHASE AND SALES RELATIONS WITH OTHERS

Does Applicant buy from, sell to, or use the services of, any concern or partnership in which an officer, director, large stockholder, or partner of the Applicant has a substantial interest? If not, so state. If so, give names of such officers, directors, stockholders, and partners, and names of such concerns or partnerships.

Not applicable - not operating

Does any officer, director, large stockholder, or partner of Applicant receive any commission, bonus, or other payment in cash or services from any concern or partnership with which Applicant has business dealings? If not, so state. If so, give names of such officers, directors, stockholders, or partners and amounts of such commissions, bonuses, or payments.

Not applicable

17. COMPENSATION SCHEDULE

INSTRUCTIONS: The schedule shall show the amount of compensation being paid to all employees of Applicant receiving compensation at a rate in excess of $10,000 per annum, including employees paid on a part-time basis where the rate of compensation exceeds $10,000 per annum computed on a full-time basis. If Applicant is a corporation, the schedule should show the compensation, regardless of amount, being paid to all officers, directors, and such stockholders as have an interest in Applicant's business of 10 percent or more. If Applicant is a partnership, the schedule should show the compensation being paid to, or being withdrawn by, all partners for their personal use. If Applicant is an individual, the schedule should show the amount being withdrawn by Applicant for his personal use. In each case the listed person's connection with the business should be indicated (i.e., whether an officer, director, stockholder, partner, owner, etc.). The calendar basis for the compensation should likewise be shown. Attorneys or firms of attorneys on a regular retainer or salary basis should be included. The schedule should include a separate notation indicating the source and amount of any compensation being paid by a company or firm directly or indirectly controlling, affiliated with, or controlled by, Applicant. If the space provided herein is insufficient, the schedule should be continued on the reverse side or appropriate continuation sheets should be attached.

Not applicable - not operating.

COMPENSATION SCHEDULE - Continued

No salaries or wages will be paid to anyone except supervisory employees or workers required on the ground to carry on the work for which this loan is sought; salaries or wages will not exceed the prevailing rates paid in the district.

The Applicant cannot very well answer the questions on or apply the balance of Page 8, Pages 9, 10 and 11 of Form NSRB-146 to himself as an individual applicant, except to give the following statement of net worth, exclusive of interest in the mining property for which Applicant is seeking his loan.

Cash	600.00
Corporate securities (present quoted prices)	10, 500.00
An interest in some mined antimony ore (stibnite) located in the Panamint Range just above the floor of Death Valley. The property is not now operating. The operation was on a lease basis, the Applicant having no interest in the property. Applicant's interest is in the mined ore, his share after marketing costs are deducted is estimated at between $4,000 and $5,000	4, 000.00
Total	15,100. 00

on a total of $25,000

Applicant owes a balance of $5,000.00/ on the property for which he is seeking this loan; this will be paid before mid-year 1951 when Applicant will be sole owner. Applicant puts a potential value on this property of several hundred percent above cost and is confident the expenditure of the loan requested will open a very valuable mine.

17. **COMPENSATION SCHEDULE** - Continued

The term "compensation", as used herein and such schedule, shall include all salaries, fees, bonuses, commissions, retainers, regular drawing accounts, and other payments, direct or indirect, in money or otherwise, for personal services.

Name (a)	Position (b)	Compensation paid during previous fiscal year (c)	Present compensation (d)

18. **COLLATERAL**

(a) The applicant offers the following described collateral as security for repayment of the loan applied for.

Description (a)	Date acquired (b)	Cost (c)	Book Value (Net) (d)	Appraised* value (e)
Property now held:				
be acquired:				

* This column need be filled in only if a recent appraisal has been made. If so, identify appraiser below.

Name (a)	Title (b)	Date (c)

(b) Describe existing liens, if any, on property listed above.

EXHIBIT A - CURRENT FINANCIAL STATEMENT

As of _____

(Date not more than 30 days prior to date of application)

ASSETS

CURRENT ASSETS

1. Cash ..... $ _____
2. Notes receivable ..... $ _____
   Less reserve for doubtful notes ..... _____
3. Accounts receivable:
   Current ..... $ _____
   Past due not over 4 months ..... _____
   Past due over 4 months ..... _____ $ _____
   Less reserve for doubtful accounts ..... _____ _____
4. Inventories:
   Raw materials ..... $ _____
   Work in process ..... _____
   Finished goods ..... _____ $ _____
   Less reserve for inventory losses ..... _____ _____
5. Other current assets (describe) _____ _____

TOTAL CURRENT ASSETS ..... $ _____

FIXED AND OTHER ASSETS

6. Plant used in business:
   Land ..... $ _____
   Buildings ..... _____
7. Machinery ..... _____
8. Equipment, furniture, and fixtures ..... _____ $ _____
   Less reserve for depreciation ..... _____ _____
9. Investments—stocks and bonds ..... _____
10. Investments in affiliated companies ..... _____
11. Receivables due from affiliated companies ..... _____
12. Real estate not used in business ..... _____
13. Due from officers, directors, employees, stockholders ..... _____
14. Deferred charges ..... _____
15. Other assets ..... _____

TOTAL ASSETS ..... $ _____

LIABILITIES

CURRENT LIABILITIES

16. Notes payable (see schedule 1, page 10):
    Banks ..... $ _____
    Trade creditors ..... _____
    Officers, stockholders, relatives ..... _____
    Insurance companies ..... _____ $ _____
17. Accounts payable ..... _____
18. Other current liabilities:
    Delinquent taxes { Real estate ..... $ _____
    Delinquent taxes { Federal ..... _____
    Wages and salaries ..... _____
    Due officers ..... _____
    Accrued interest, rent, taxes, wages, etc ..... _____
    _____ _____ _____

TOTAL CURRENT LIABILITIES ..... $ _____

FIXED AND OTHER LIABILITIES

19. Machinery liens ..... _____
20. Mortgage debts (see schedule 2, page 10) ..... _____
21. Bonds or debentures (see schedule 2, page 10) ..... _____
22. Other liabilities ..... _____

NET WORTH

23. Common stock (if Applicant is incorporated) ..... $ _____
24. Preferred stock (if Applicant is incorporated) ..... _____
25. Surplus (if Applicant is incorporated) ..... _____
26. Capital and Surplus Account (if Applicant is partnership or individual) ..... _____

TOTAL LIABILITIES ..... $ _____

27. Contingent liabilities (explain) _____ $

NOTE.— Submit copy of last available audit or of financial statement at close of last fiscal period (if such date differs from date of above statement).

SCHEDULE 1 - Notes Payable (in detail)

Name and address	Maturity	Amount	State amount and character of collateral	Name of guarantor(s) and/or endorser(s)

SCHEDULE 2 - Mortgage Debt (real estate and/or chattels) or Bond Issue

Names and addresses of holders	Date of maturity	Interest rate	Unpaid principal amount	Date to which interest is paid
			$	
TOTAL	X X X X X X X	X X X X X X	$	X X X X X X X X X X X X X X X X X

If mortgage secures a bond issue, state whether bonds are principally held by management and/or stockholders or by others, and attach copy of mortgage indenture.

EXHIBIT B - CONDENSED COMPARATIVE STATEMENT OF INCOME AND EXPENSES

For years ended _____

(Insert date of end of fiscal year)

(000.00 omitted)

	(Figures for 3 preceding years)			Current year as of date of Exhibit A
	19	19	19	
1. Net sales				
2. Cost of goods sold				
3. Gross profit on sales (line 1 minus line 2)				
4. Other income (itemize)				
5. Total (line 3 plus line 4)				
6. Salaries (officers or partners)*				
7. Selling and all other expenses				
8. Total of lines 6 and 7				
9. Profit or loss before depreciation and Federal taxes (line 5 minus line 8)				
10. Depreciation				
11. Federal Income and Excess Profits Taxes				
12. Net profit or loss (line 9 minus lines 10 and 11)				
ANALYSIS OF SURPLUS				
13. Total surplus at beginning of period				
14. Net profit or loss for period				
15. Line 13 plus line 14 if profit; line 13 minus line 14 if loss				
Add:				
16. Surplus paid in during period				
17. Surplus resulting from revaluation of assets				
18. Other additions to surplus (itemize)				
19. Total of lines 15 to 18, inclusive				
Deduct:				
20. Dividends				
21. Other charges to surplus (itemize)				
22. Total of lines 20 and 21				
23. Surplus at end of period (line 19 less line 22), MUST AGREE WITH SURPLUS AS SHOWN IN BALANCE SHEETS				

* To include all payments of any kind (commissions, bonuses, withdrawals) to officers or partners.

NOTE—If years included in the above tables are not adequately representative of applicant's financial experience, information may be submitted for additional years.

EXHIBIT C - CONDENSED COMPARATIVE STATEMENT OF CONDITION

For years ended _____
(Insert date of end of fiscal year)

(000.00 omitted. Use figures to nearest thousand. For instance, the figure $3,489.36 should be written as 3; the figure $3,689.36 should be written as 4)

ASSETS	(Figures for 3 preceding years) 19	19	19	Current year as of date of Exhibit A
CURRENT ASSETS:				
1. Cash				
2. Receivables (after deducting reserves)				
3. Inventories				
4. Other current assets:				
TOTAL CURRENT ASSETS				
FIXED AND OTHER ASSETS:				
5. Plant accounts (before depreciation):				
Machinery, equipment, etc.				
Delivery equipment				
Real estate and buildings used in business				
6. Other assets (as investments, real estate not used in business, etc.):				
TOTAL ASSETS				
LIABILITIES				
CURRENT LIABILITIES:				
8. Notes payable				
9. Accounts payable				
10. Accrued liabilities				
11. Other current liabilities:				
TOTAL CURRENT LIABILITIES				
FIXED AND OTHER LIABILITIES:				
12. Mortgage debts				
13. Debentures				
14. Other fixed liabilities:				
RESERVES:				
15. Reserve for depreciation				
16. Other reserves:				
NET WORTH:				
17. Common stock (issued) (if Applicant is incorporated)				
18. Preferred stock (issued) (if Applicant is incorporated)				
19. Surplus (if Applicant is incorporated)				
20. Capital and surplus account (if Applicant is partnership or individual)				
TOTAL LIABILITIES				

NOTE— If years included in the above table are not adequately representative of applicant's financial experience, condition statements may be submitted for additional years.

EXHIBIT D

AGREEMENT AS TO COMPENSATION FOR SERVICES RENDERED OR TO BE RENDERED TO APPLICANT IN CONNECTION WITH APPLICATION AND/OR LOAN

To induce the United States Government and its agencies to make a loan under Sec. 302 of the Defense Production Act of 1950 to _____ (hereinafter called "Applicant") and in consideration of the making of a loan to Applicant, the undersigned, having been retained by Applicant for the purpose of rendering professional or other services in connection with its application for a loan or loans, hereby represents, warrants, and agrees that the undersigned has not been paid, has not made any agreement with the Applicant to be paid, and has not procured any person to pay or agree to pay, and will not, directly or indirectly, charge or receive any bonus, fee, or commission in any form in connection with the said application for, or the obtaining of, the loan applied for by the Applicant, or any compensation in any form for services rendered or to be rendered in connection therewith except for the services and in the amounts stated below:

Name	Description of services	Amount paid	Amount to be paid
		$	$
This Application prepared entirely by Henry V. Snell, Applicant, who is under no obligation to anyone in connection therewith.			

To induce the making of the loan and the employment of the undersigned by Applicant, the undersigned hereby further warrants, covenants and agrees, upon the consideration herein specified, and in consideration of the employment of the undersigned by Applicant, as above recited, that if the amount of compensation stated above for any such services shall not be deemed reasonable by any agency of the United States Government, the undersigned will reduce the charge for such services to such amount as shall be deemed reasonable by such agency, and will not, directly or indirectly, charge or collect from the Applicant or any other person, any sum in excess of the amount so deemed reasonable; and that if the undersigned has heretofore collected, from the Applicant or any other person, as compensation for any such services, any amount deemed by such agency to be unreasonable, the undersigned will refund to Applicant or such other person such sums as are in excess of the amount deemed reasonable. The undersigned further warrants, covenants and agrees that if the amount of the compensation for any such services is not determinable at the date of application, or is not stated above, it will not collect or charge any sum as compensation for such services without the prior written approval of the Government agency with which this application is officially filed as to the nature of the services for which such compensation is to be paid and the amount of such compensation.

Witness: _____ _____

Address of witness: _____ _____

Dated _____, 19____ _____

NOTE—Corporations must execute foregoing certificate in corporate name, by duly authorized officer, and seal must be affixed and duly attested; partnerships must execute in firm name, together with signature of a general partner. If no compensation is paid or to be paid for services rendered in connection with application or loan, this should be so stated and the Applicant should sign this Exhibit.

CERTIFICATION

The Applicant hereby certifies that the statements made in the foregoing application, and all exhibits and documents submitted in connection therewith, are true and correct statements to the best of Applicant's information and belief and are submitted as a basis for credit. The Applicant agrees to reimburse any agency of the United States Government upon demand for any expenses incurred in connection with or arising out of this application or any loan made pursuant hereto.

Dated January 18, 1951

Witness: R D Light

(For individual applicants)

Henry V. Snell
(Signature)

Witness: _____

(For partnership applicants)

_____
(Full name of firm)

By _____, a general partner.
(Signature)

(For corporate applicants)

(CORPORATE SEAL)

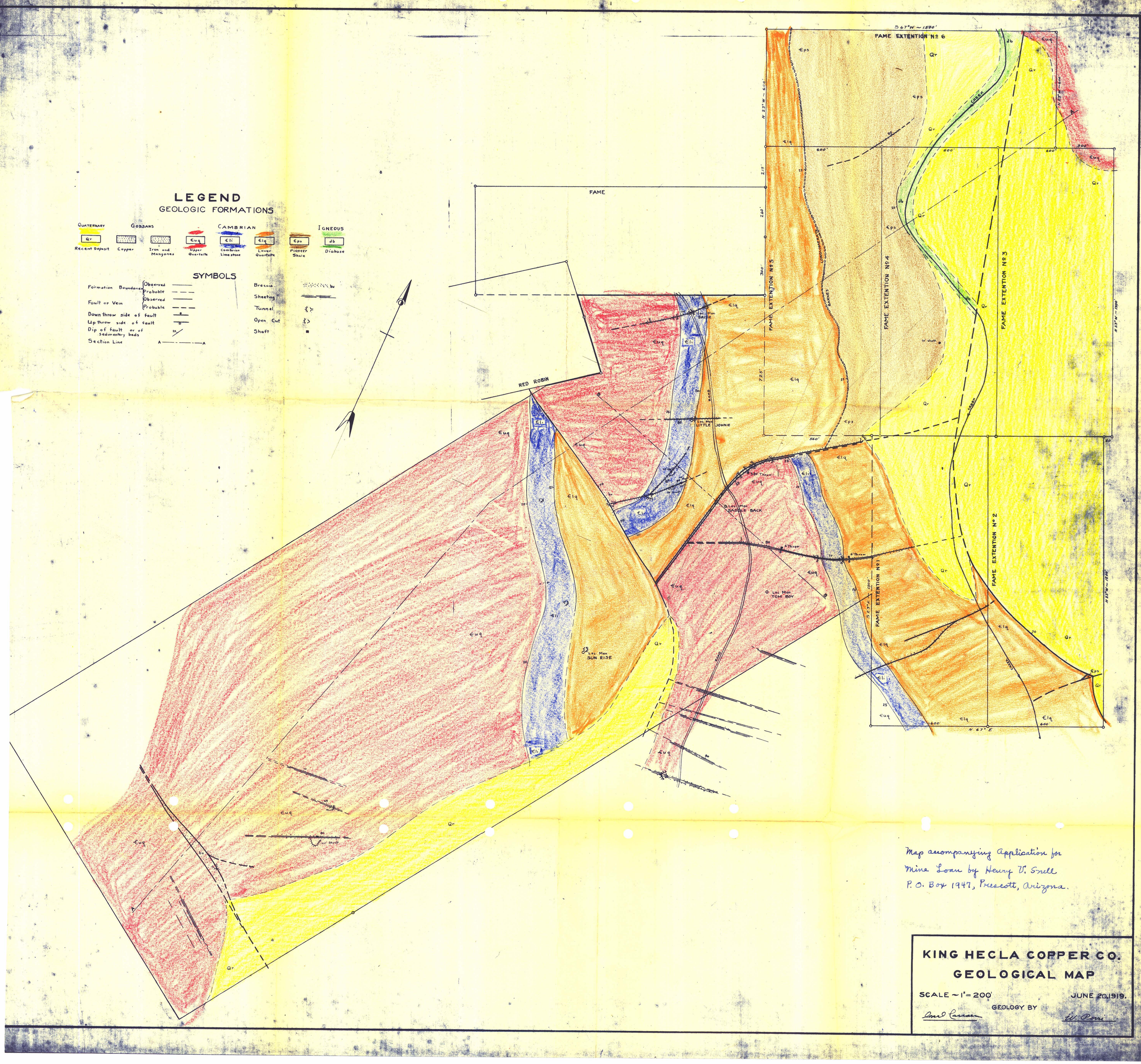
_____
(Full corporate name of Applicant)

Attest: By _____
(Signature) (Title)

_____, _____
(Signature) (Title)

The United States Criminal Code, 18 U.S.C., Sec. 1001, makes it a criminal offense to make a willfully false statement or representation to any Department or Agency of the United States as to any matter within its jurisdiction.

U. S. GOVERNMENT PRINTING OFFICE: 1950 O - 916171



Map accompanying Application for Mine Loan by Henry V. Snell P. O. Box 1947, Prescott, Arizona.

KING HECLA COPPER CO.

GEOLOGICAL MAP

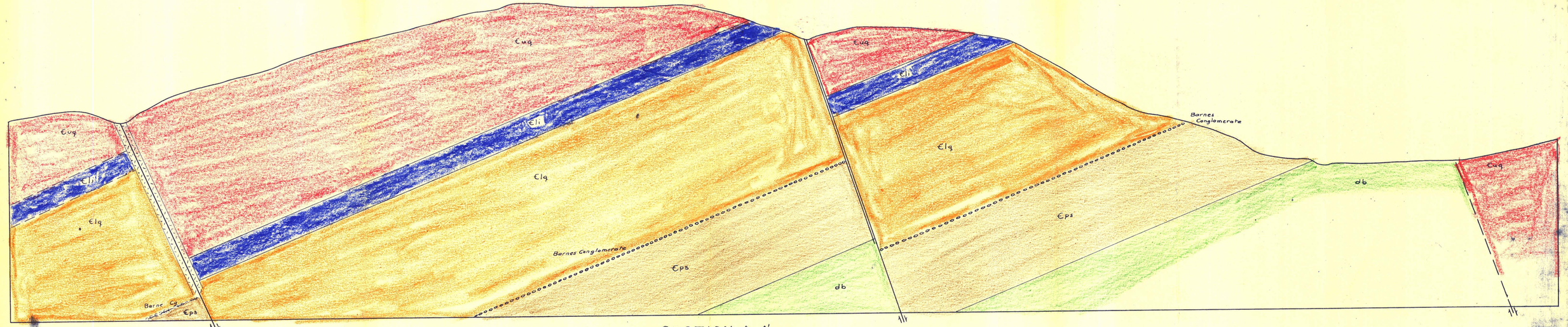
SCALE ~ 1" = 200'

JUNE 20, 1919.

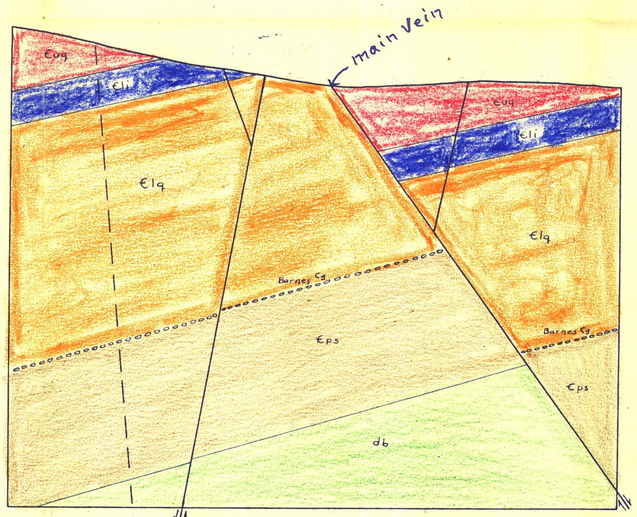
GEOLOGY BY

Arel Larsen

W. Ross



SECTION A-A'



SECTION B-B'

LEGEND

GEOLOGIC FORMATIONS

CAMBRIAN

IGNEOUS

Cuq	Cli	Clq	Cps	db
Upper Quartzite	Cambrian Limestone	Lower Quartzite	Pioneer Shale	Diabase

KING HECLA COPPER CO.

SECTIONS

SCALE – 1" = 200'

JUNE 20, 1919

Map accompanying Application for Mine Loan by Henry T. Snell, P.O. Box 1947, Prescott, Arizona.