October 22, 1953

3141-
Cu-WO_3

MEMORANDUM

To: Administrator, DMEA

From: Iron and Ferro-Alloys Division, DMEA

Subject: Denial of application by Field Team Region IV
Docket No. DMEA 3141 (Copper and Tungsten)
Wood Mining Company
San Francisco Mine
Santa Fe County, New Mexico

1. The applicant requested exploration assistance in the amount of $39,994.00 to explore for copper and tungsten in the San Francisco Mine, Santa Fe County, New Mexico.

2. Copper mineralization consisting of chalcopyrite with small amounts of gold-silver and scattered specks of scheelite occurred in superimposed bedding plane fractures within a zone of silicified and garnetized limestones which have been invaded by porphyry sills.

3. Mineralization is confined to two flat dipping horizons separated by about 50 feet of altered limestone. Both horizons are limited to a strike length of 150 feet and an average thickness of 1.5 feet. The inferred ore potential of each would be approximately 20 tons per foot of depth.

4. An unknown but relatively small amount of copper ore has been shipped from the property as a result of prospecting and "gophering" operations. There is no appreciable amount of ore remaining in the workings.

5. The results of 2 samples taken by the examiners are as follows:

No.	Width	Oz./ton Au	Oz./ton Ag	Percent Cu	Percent WO_3
12298	1.3 ft.	0.04	1.55	7.85	Less than 0.01
12299	Grab	0.01	0.40	1.54	" " "

The first sample is typical of the better material of the face in a small stope in upper adit. The second was taken from a pile recently broken at bottom of incline in the lower mineralized horizon.

6. Judging by the sample results and the visual inspection of the exposures it appears doubtful that the average grade would exceed 3.5 percent copper with a negligible amount of tungsten and minor amounts of gold and silver.

7. The exploratory work to date has failed to disclose substantial ore bodies and there is no evidence to indicate the probability of finding such ore bodies in the area of the proposed exploration. The Field Team, therefore, denied the application for Government aid.

We concur in the denial.

W. S. Martin, Chief
Iron and Ferro-Alloys Division

JHOPKINS:foc
10-22-53
cc: Docket
Code 400
Admr. Reading File
Operating Comm.

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

October 22, 1953

MEMORANDUM

To: Administrator, DMEA

From: Iron and Ferro-Alloys Division, DMEA

Subject: Denial of application by Field Team Region IV
Docket No. DMEA 3141 (Copper and Tungsten)
Wood Mining Company
San Francisco Mine
Santa Fe County, New Mexico

1. The applicant requested exploration assistance in the amount of $39,994.00 to explore for copper and tungsten in the San Francisco Mine, Santa Fe County, New Mexico.

2. Copper mineralization consisting of chalcopyrite with small amounts of gold-silver and scattered specks of scheelite occurred in superimposed bedding plane fractures within a zone of silicified and garnetized limestones which have been invaded by poryphyry sills.

3. Mineralization is confined to two flat dipping horizons separated by about 50 feet of altered limestone. Both horizons are limited to a strike length of 150 feet and an average thickness of 1.5 feet. The inferred ore potential of each would be approximately 20 tons per foot of depth.

4. An unknown but relatively small amount of copper ore has been shipped from the property as a result of prospecting and "gophering" operations. There is no appreciable amount of ore remaining in the workings.

5. The results of 2 samples taken by the examiners are as follows:

No.	Width	Oz./ton Au	Oz./ton Ag	Percent Cu	Percent WO_3
12298	1.3 ft.	0.04	1.55	7.85	Less than 0.01
12299	Grab	0.01	0.40	1.54	" " "

DENIED

The first sample is typical of the better material of the face in a small stope in upper adit. The second was taken from a pile recently broken at bottom of incline in the lower mineralized horizon.

6. Judging by the sample results and the visual inspection of the exposures it appears doubtful that the average grade would exceed 3.5 percent copper with a negligible amount of tungsten and minor amounts of gold and silver.

7. The exploratory work to date has failed to disclose substantial ore bodies and there is no evidence to indicate the probability of finding such ore bodies in the area of the proposed exploration. The Field Team, therefore, denied the application for Government aid.

We concur in the denial.

W S Martin

W. S. Martin, Chief
Iron and Ferro-Alloys Division

FILE COPY
SURNAME:

Martin
Lyhon
Thayer
Mitchendorf

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

October 22, 1953

MEMORANDUM

To: Administrator, DMEA

From: Iron and Ferro-Alloys Division, DMEA

Subject: Denial of application by Field Team Region IV
Docket No. DMEA 3141 (Copper and Tungsten)
Wood Mining Company
San Francisco Mine
Santa Fe County, New Mexico

1. The applicant requested exploration assistance in the amount of $39,994.00 to explore for copper and tungsten in the San Francisco Mine, Santa Fe County, New Mexico.

2. Copper mineralization consisting of chalcopyrite with small amounts of gold-silver and scattered specks of scheelite occurred in superimposed bedding plane fractures within a zone of silicified and garnetized limestones which have been invaded by poryphyry sills.

3. Mineralization is confined to two flat dipping horizons separated by about 50 feet of altered limestone. Both horizons are limited to a strike length of 150 feet and an average thickness of 1.5 feet. The inferred ore potential of each would be approximately 20 tons per foot of depth.

4. An unknown but relatively small amount of copper ore has been shipped from the property as a result of prospecting and "gophering" operations. There is no appreciable amount of ore remaining in the workings.

5. The results of 2 samples taken by the examiners are as follows:

No.	Width	Oz./ton Au	Oz./ton Ag	Percent Cu	Percent WO_3
12298	1.3 ft.	0.04	1.55	7.85	Less than 0.01
12299	Grab	0.01	0.40	1.54	" " "

R.C.G.
11-2-53

The first sample is typical of the better material of the face in a small stope in upper adit. The second was taken from a pile recently broken at bottom of incline in the lower mineralized horizon.

6. Judging by the sample results and the visual inspection of the exposures it appears doubtful that the average grade would exceed 3.5 percent copper with a negligible amount of tungsten and minor amounts of gold and silver.

7. The exploratory work to date has failed to disclose substantial ore bodies and there is no evidence to indicate the probability of finding such ore bodies in the area of the proposed exploration. The Field Team, therefore, denied the application for Government aid.

We concur in the denial.

W. S. Martin, Chief
Iron and Ferro-Alloys Division

JHOPKINS:foc
10-22-53
cc: Docket
Code 400
Admr. Reading File
Operating Comm.

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

224 New Customhouse
Denver 2, Colorado

September 29, 1953.

Memorandum

To: Administrator, Defense Minerals Exploration Administration
Attention: 200

From: Field Team, Region IV

Subject: Report of Examination - DMEA Docket 3141 (Copper-Tungsten), Wood Mining Company, San Francisco Mine, Santa Fe County, New Mexico.

Enclosed are four copies of the Report of Examination on the subject docket, a copy of the letter of denial to the applicant and two copies of Form 3b.

W. H. King
Field Team, Region IV

A. H. Koschmann
Field Team, Region IV

Enclosures

DENIED

Reviewed by
DMEA OPERATING COMMITTEE
10-9-53
(date)

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

224 New Customhouse
Denver 2, Colorado

September 30, 1953.

Mr. Ray C. Wood
Wood Mining Company
617 Dakota Street, S.E.
Albuquerque, New Mexico

Re: Docket No. DMEA-3141

Dear Mr. Wood:

Reference is made to your application for Government aid on the San Francisco Mine.

Projects approved by the Defense Minerals Exploration Administration must, in its judgment, show definite promise of yielding material of acceptable grade, and in quantities that will significantly improve the mineral supply position for the National Defense Program.

A careful study of your property and data available to this agency reveals that the probability of disclosing mineable reserves of copper and tungsten is not considered sufficiently promising to justify Government participation. Under these circumstances, we regret to advise that your application for exploration aid is denied.

Very truly yours,

W. H. King
W. H. King
Field Team, Region IV

HMC:cwm
Docket
cc: Administrator, DMEA
WRStorms
RFRobinson
AHKoschmann (2)
Chron.

A. H. Koschmann
A. H. Koschmann
Field Team, Region IV

Reviewed by
DMEA OPERATING COMMITTEE
10-9-53
(date)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Mining Division
Region IV

September 29, 1953.

Memorandum

To: Field Team, Region IV

From: Chief, Mining Division, Region IV

Subject: Report of Examination, DMEA Docket 3141 (Copper-Tungsten), Wood Mining Company, San Francisco Mine, Santa Fe County, New Mexico.

Enclosed are nine copies of the engineering report on the examination of the subject docket.

The applicant requested $39,994.00 for sinking and drifting. The examiners found a negligible amount of tungsten. Further exploration is not recommended by them because no significant amount of copper is likely to be derived as a result of sinking and exploration at deeper horizons.

We concur in the recommendation that the application be denied.

W. H. King

Enclosures

Reviewed by
DMEA OPERATING COMMITTEE
10-9-53
(date)

MINING DIVISION
REGION IV

September 10, 1953

Memorandum

To : W. H. King, Chief, Mining Division, Region IV

From : L. A. Stewart for W. R. Storms, Chief, Mining Methods Branch, Mining Div., Region IV, Tucson, Ariz.

Subject : Docket DMEA-3141, Wood Mining Co.'s San Francisco Copper Prospect, New Placers Mining District, Santa Fe County, New Mex.

Enclosed are original and eight copies of a report on the above property by L. L. Farnham of the Bureau of Mines. A separate report has been submitted by the Geological Survey.

As there seems little chance of making a significant discovery of copper and tungsten, the examiner recommends denial of the loan. I concur with his recommendation.

Brochure, consisting of Form MF-103, Appendix No. 1, Appendix No. 2, Appendix No. 3, and one sketch showing a plan and section, is herewith enclosed.

Lincoln A. Stewart

Lincoln A. Stewart, Mining Engineer
for Walter R. Storms, Chief
Mining Methods Branch
Mining Division, Region IV

CC W. H. King (8)
A. F. Shride
DMEA-3141
DF

LAStewart:frj

Reviewed by
DMEA OPERATING COMMITTEE

10-9-53
(date)

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
~~WASHINGTON 25, D. C.~~
~~200 New Customhouse~~
Denver 2, Colorado

September 2, 1953

Memorandum

To: DMEA Field Team, Region IV

From: A. H. Koschmann

Subject: DMEA Docket 3141, Wood Mining Company (Copper and tungsten), San Francisco Mine, Santa Fe County, New Mexico

Enclosed are 9 copies of the geologic report by ~~John Eatock~~ ~~of~~ the U. S. Geological Survey covering the above docket.

It has been recommended that the loan be denied.

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

Enclosures (9)

Reviewed by
DMEA OPERATING COMMITTEE
10-9-53
(date)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
P.O. Box 4126, University Station
Tucson 5, Arizona

August 31, 1953

Memorandum

To: A. H. Koschmann, Denver, Colorado

From: R. F. Robinson, Tucson, Arizona

Subject: Final report on Wood Mining Company, DMEA-3141 (Copper and Tungsten), San Francisco Mine, Santa Fe County, New Mexico

Enclosed please find the original and 3 copies of the report on the subject docket.

The writer believes that an exploration loan is not warranted because no "significant" amount of copper is likely to be derived as a result of the proposed mining and exploration at deeper horizons as proposed by the applicant.

A denial is recommended.

Raymond F. Robinson

Raymond F. Robinson
Acting District Supervisor
Arizona - New Mexico

Reviewed by
DMEA OPERATING COMMITTEE

10-9-53
(date)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
P.O. Box 4126, University Station
Tucson 5, Arizona

August 31, 1953

Memorandum

To: A. H. Koschmann, Denver, Colorado

From: R. F. Robinson, Tucson, Arizona

Subject: Final report on Wood Mining Company, San Francisco Mine, Santa Fe County, New Mexico, DMEA-3141 (Copper and Tungsten)

On August 20 I visited the property of the subject docket in the company of Mr. Wood who has an option on it, and Mr. Lloyd Farnham of the U. S. Bureau of Mines. We inspected all the mine workings and surface showings. Mr. Farnham took a few samples. This property is obviously unfit to receive a DMEA loan and a denial is recommended. Reference to Mr. Farnham's report for maps is requested.

The occurrences here are quite typical for the district. Mr. Wood feels that he has another San Pedro mine on hand and thinks that there is a marked similarity between the two places. The exposures in the mine workings and the surface are not in any way suggestive of the magnitude of the San Pedro. The degree of metamorphism is far less intense - there is no marblization of the limestone at the San Francisco. The thickness of the sills which reflect the degree of metamorphism here are noticeably thinner than at the San Pedro.

Reviewed by
DMEA OPERATING COMMITTEE
10-9-53
(date)

The "veins" are in reality sections of the limestone which are adjacent to or near granitic sills (two thin ones noted) which have been converted to masses of skarn and later replaced or filled to various extents by chalcopyrite and pyrite. There are four of these veins exposed to date.

The veins are narrow and low grade. They show the greatest widths at or near the surface (within 50 feet of surface) where they strike north 10 - 20 west and dip flatly east 15 to 25 degrees. The greatest width and flat dip is coincidental with the best grade of ore and proximity to the sills. Down the direction of the dip the veins depart from the sill which lies in the footwalls and steepen abruptly to 30 and 45 degrees. They also narrow from four or five feet to a foot or a foot and a half. Leaner ore occurs on the steeper dips. There is no geologic evidence that the structure will flatten out again in depth in which case it might be assumed that the ore would improve in width and possibly grade.

The best way to explore the present showings would probably be to drift along the veins not deeper than 75 feet below the outcrop but this would not develop an appreciable tonnage of copper or warrant an exploration loan. There is no important tonnage of ore left in the present near surface workings because they have been high graded in the past.

Raymond F. Robinson

Raymond F. Robinson
Acting District Supervisor
Arizona - New Mexico

UNITED STATES
DEPARTMENT OF THE INTERIOR
DOUGLAS McKAY, SECRETARY

DEFENSE MINERALS EXPLORATION ADMINISTRATION
REPORT OF EXAMINATION BY FIELD TEAM
REGION IV

DMEA-3141, Wood Mining Co.'s San Francisco Copper Prospect

New Placers Mining District, Santa Fe County, New Mexico

R. F. Robinson, Geologist
U. S. Geological Survey

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

September 1953

Reviewed by
DMEA OPERATING COMMITTEE
10-9-53
(date)

SUMMARY, CONCLUSIONS AND RECOMMENDATIONS

By R. F. Robinson[1] and L. L. Farnham[2]

In July 1953, the Wood Mining Company applied to the Defense Mineral Exploration Administration under the Defense Production Act of 1950, as amended, for an exploration loan amounting to $39,994. The application was docketed as DMEA-3141. The funds requested were for the purpose of further exploring a copper-tungsten prospect situated in the San Pedro Mountains of Santa Fe County, N. Mex.

The claims comprising the subject property were originally located in the late 1880's. They were relocated by the present owner in 1946. Production, resulting from periodic lessee operations, has probably amounted to several hundred tons of selected copper ore.

The ore, consisting of chalcopyrite with small amounts of gold-silver, occurred in superimposed bedding plane fractures within a zone of silicified and garnetized limestones which has been invaded by porphyry sills.

The 2 principal mineralized horizons dipped flatly eastward and were separated by some 50 feet of altered limestone. Both beds were of comparable size, with the appreciable copper mineralization limited to a strike length of about 150 feet and an average thickness of not more than 1.5 feet. Thus the inferred potential of each horizon would be of the order of 20 tons per foot of depth.

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

It was estimated from sample results and visual inspection that the average grade of the deposits would not exceed 3.5 percent copper with minor amounts of gold-silver and a negligible quantity of tungsten trioxide.

It was concluded that the deposits were too small, in relation to their grade, to warrant further exploration. Therefore, it is recommended that the application for the loan be denied.

DMEA-3141, WOOD MINING CO.'S SAN FRANCISCO COPPER PROSPECT
NEW PLACERS MINING DISTRICT, SANTA FE COUNTY, NEW MEXICO

Engineering Report

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

September 1953

DMEA-3141, WOOD MINING CO.'S SAN FRANCISCO COPPER PROSPECT
NEW PLACERS MINING DISTRICT, SANTA FE COUNTY, NEW MEXICO

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2	Claim map	2
3	Plan and section of workings	3

INTRODUCTION

Late in July 1953, the Wood Mining Company applied to the Defense Minerals Exploration Administration under the Defense Production Act of 1950, as amended, for an exploration loan amounting to $39,994. The application was docketed as DMEA-3141. The funds requested were for the purpose of exploring a copper-tungsten prospect at greater depth. The property was visited by the field examiners on August 21, 1953.

ACKNOWLEDGMENTS

Thanks are due Ray C. Wood for his help during the examination.

LOCATION AND PHYSICAL FEATURES

The San Francisco copper prospect is situated about 2 miles southeast of the village of Golden in Secs. 21 and 22, T. 12 N., R. 7 E., New Placers mining district, Santa Fe County, N. Mex.

The subject claims are reached from Golden over 1.9 miles of a steep, rough mountain road that leaves the highway immediately south of the general store (see figure 1).

The property lies on the western flank of the San Pedro Mountains in an area of rugged relief at an altitude of about 7,200 feet above sea level. Los Cerrillos, on the Santa Fe Railroad, is 17 miles north of Golden and the nearest shipping point.

HISTORY AND PRODUCTION

The claims comprising the subject property were said to have been originally located in the late 1880's and were known at that time as the San Francisco group. They were relocated by the present owner in 1946 under the name of the San Pedro group.

An unknown but relatively small amount of copper ore has been shipped from the claims as a result of prospecting and "gophering" operations conducted intermittently by various lessees. Judged by the size of the stopes the production has probably been of the order of a few hundred tons of selectively mined and sorted ore.

OWNERSHIP AND EXTENT

The applicant company, a partnership consisting of Ray C. Wood and Edith J. Wood, have a lease and option on 4 unpatented lode claims owned by Earnest Rincon of Golden, N. Mex. The claims are recorded as the San Pedro No. 1, San Pedro No. 2, San Pedro No. 3 and the New Sunset Lode. None are full-sized claims as they either overlap patented ground or conflic with other prior locations. The San Pedro claims are contiguous whereas the Sunset is separated from that group by an intervening fraction known as the Sunnyside (see figure 2).

DESCRIPTION OF THE DEPOSIT

Copper mineralization occurred on the subject property in bedding plane fractures within a series of highly silicified and garnetized limestones which had been invaded by various sized porphyry sills. Three superimposed beds showing the presence of copper minerals were exposed on the San Pedro No. 1 claim. All had northerly strikes and dipped from 15° to 20° eastward. The lower of the 3 mineralized horizons (No. 1) which had been the most extensively explored, ranged from a few inches to several feet in thickness with appreciable copper

limited to a strike length of about 150 feet. The second mineralized fracture lying some 50 or 60 feet vertically above the lower was of comparable thickness and length to that of No. 1. The third of uppermost mineralized horizon, some 75 feet above the second bed, appeared to contain but little copper and so had only been explored by a few shallow cuts.

The bulk of the appreciable copper mineralization in the 2 lower beds cropped out in the area lying between the upper and lower adits (see figure 3). The strata in this area were arched with the thickest and best mineralization in both beds occupying the crest of the dome-like warp. In places on the crest of the fold the copper mineralization had been mined over thicknesses of as much as 6 feet but thinned rapidly down the flanks of the arch to 2 feet or less. The fold appeared to die out down the dip of the beds as did the thicker ore.

Chalcopyrite was the principal primary copper mineral and was associated with pyrite and specular hematite. Calcite, quartz and lime silicate minerals were the chief gangue constituents. Scattered specks of scheelite were present in places but no areas were noted where it appeared abundant enough to be significant. The ore, as well as the tactite wall rocks, was extremely hard and tough.

ORE RESERVES

There was no appreciable amount of ore remaining in the workings. The thickness of the mineralized fractures at no great distance below the outcrops ranged from a few inches to 3 feetand would probably

average not more than 1.5 feet. Appreciable amounts of copper in both beds were confined to a strike length of about 150 feet. Thus the potential of each mineralized horizon would be of the order of about 20 tons per foot of depth extension or 40 tons for both beds. As the mineralized fractures were some 50 feet apart each would have to be developed and mined separately.

Samples taken by the applicant at various places in the workings showed a copper content ranging from 2 to 4 percent, small variable amounts of gold and silver and in some cases a few hundredths of one percent WO_3. The results of 2 samples taken by the examiners are given below and their location is shown on figure 3.

		Ozs./ton		Percent	
No.	Width	Au	Ag	Cu	WO_3
12298	1.3 ft.	0.04	1.55	7.85	Less than 0.01
12299	Grab	0.01	0.40	1.54	Less than 0.01

The first sample above appeared typical of the better mineralized material such as was mined in the small stope at the face of the upper adit. The copper mineralization in this stope ranged from 1 to 2 feet in thickness. The second or grab sample was taken from a pile of ore recently broken from the lower mineralized horizon at the bottom of the incline. Here the mineralization was not more than 1.5 feet in thickness.

Judged by the sample results and from the visual inspection of the exposures it appears doubtful that the average grade of the deposits would exceed 3.5 percent copper with a negligible amount of tungsten and minor amounts of gold-silver.

PRESENT STATUS OF EXPLORATION

In addition to various openings along the outcrops the lower mineralized horizon had been explored from 2 crosscut adits and a crooked incline winze that followed the mineralization downward for some 200 feet (see figure 3). Gobbed stopes, some of which probably reached the surface, were evident in the upper part of the incline and on the south side of the upper adit. Due to the evident grade and limited thickness of the mineralization no stoping had been attempted in the lower half of the incline. The upper adit, some 130 feet north of the incline, intersected the lower or No. 1 bed at a distance of about 50 feet from the surface and continued easterly through altered limestone for 130 feet where it cut No. 2 mineralized horizon. This bed had been explored at the face of the adit for about 25 feet along the strike and for 15 feet up the dip by a small stope (see figure 3).

PROPOSED EXPLORATION

The applicant proposed the further exploration of the No. 2 mineralized horizon by means of 750 feet of underground work consisting of 300 feet of inclined winze and 150 feet of drifting on each of 3 levels to be driven from the proposed winze. The winze and the uppermost drift would start at the face of the upper adit (see figures 3).

ESTIMATED COST OF PROJECT

As estimated by the applicant, the total cost of the proposed project would amount to $39,994. These estimates were based on an average advance of 50 feet a month, thus requiring 15 months to complete the work. A summary of the monthly costs as shown in the application are as follows:

Labor, supervision and consultants	$1,583.00
Operating materials and supplies	321.00
Operating equipment(rental and use allowance	281.56
Miscellaneous (including compensation insurance)	230.72
Contingencies	250.00
Total cost per month	$2,666.28
Total cost of project (15 months)	$39,994.00
Average cost per foot for 750 feet	$52.32

Some of these items appear high and others low but the overall cost seems reasonable. No distinction was shown between the cost of sinking and drifting. In this case the work would penetrate extremely hard and tough tactite which would be extraordinarily difficult to drill and break. Consequently the cost of drifting would probably be about $35 a foot and the winze sinking about $80 a foot.

CONCLUSIONS AND RECOMMENDATIONS

The deposit is considered to be too small in relation to its grade to warrant further exploration. It was the hope of the applicant that some place in the area of the proposed work the deposit would "open up" into much larger ore bodies. The exploratory work to date has failed to disclose substantial ore bodies and there was no evidence to indicate the probability that such might occur in the area of the proposed exploration. Therefore it is recommended that the application for the loan be denied.

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

224 New Customhouse
Denver 2, Colorado

September 29, 1953.

Memorandum

To: Administrator, Defense Minerals Exploration Administration
Attention: 200

From: Field Team, Region IV

Subject: Report of Examination - DMEA Docket 3141 (Copper-Tungsten), Wood Mining Company, San Francisco Mine, Santa Fe County, New Mexico.

Enclosed are four copies of the Report of Examination on the subject docket, a copy of the letter of denial to the applicant and two copies of Form 3b.

W. H. King
W. H. King
Field Team, Region IV

A. H. Koschmann
A. H. Koschmann
Field Team, Region IV

Enclosures

DENIED

C
O
P
Y

September 30, 1953

224 New Customhouse
Denver 2, Colorado

Mr. Ray C. Wood
Wood Mining Company
617 Dakota Street, S.E.
Albuquerque, New Mexico

Re: Docket No. DMEA-3141

Dear Mr. Wood:

Reference is made to your application for Government aid on the San Francisco Mine.

Projects approved by the Defense Minerals Exploration Administration must, in its judgment, show definite promise of yielding material of acceptable grade, and in quantities that will significantly improve the mineral supply position for the National Defense Program.

A careful study of your property and data available to this agency reveals that the probability of disclosing mineable reserves of copper and tungsten is not considered sufficiently promising to justify Government participation. Under these circumstances, we regret to advise that your application for exploration aid is denied.

Very truly yours,

/s/ W. H. King
Field Team, Region IV

/s/ A. H. Koschman
A. H. Koschmann
Field Team Region IV

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Mining Division
Region IV

September 29, 1953.

Memorandum

To: Field Team, Region IV

From: Chief, Mining Division, Region IV

Subject: Report of Examination, DMEA Docket 3141 (Copper-Tungsten), Wood Mining Company, San Francisco Mine, Santa Fe County, New Mexico.

Enclosed are nine copies of the engineering report on the examination of the subject docket.

The applicant requested $39,994.00 for sinking and drifting. The examiners found a negligible amount of tungsten. Further exploration is not recommended by them because no significant amount of copper is likely to be derived as a result of sinking and exploration at deeper horizons.

We concur in the recommendation that the application be denied.

W. H. King
W. H. King

Enclosures

MINING DIVISION
REGION IV

September 10, 1953

Memorandum

To : W. H. King, Chief, Mining Division, Region IV

From : L. A. Stewart for W. R. Storms, Chief, Mining Methods Branch, Mining Div., Region IV, Tucson, Ariz.

Subject : Docket DMEA-3141, Wood Mining Co.'s San Francisco Copper Prospect, New Placers Mining District, Santa Fe County, New Mex.

Enclosed are original and eight copies of a report on the above property by L. L. Farnham of the Bureau of Mines. A separate report has been submitted by the Geological Survey.

As there seems little chance of making a significant discovery of copper and tungsten, the examiner recommends denial of the loan. I concur with his recommendation.

Brochure, consisting of Form MF-103, Appendix No. 1, Appendix No. 2, Appendix No. 3, and one sketch showing a plan and section, is herewith enclosed.

Lincoln A. Stewart

Lincoln A. Stewart, Mining Engineer
for Walter R. Storms, Chief
Mining Methods Branch
Mining Division, Region IV

CC W. H. King (8)
A. F. Shride
DMEA-3141
DF

LAStewart:frj

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
~~WASHINGTON 25, D.C.~~
Denver 2, Colorado

September 2, 1953

Memorandum

To: DMEA Field Team, Region IV

From: A. H. Koschmann

Subject: DMEA Docket 3141, Wood Mining Company (Copper and tungsten), San Francisco Mine, Santa Fe County, New Mexico

Enclosed are 9 copies of the geologic report by ~~John Foick of~~ the U. S. Geological Survey covering the above docket.

It has been recommended that the loan be denied.

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

Enclosures (9)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

P.O. Box 4126, University Station
Tucson 5, Arizona

August 31, 1953

Memorandum

To: A. H. Koschmann, Denver, Colorado

From: R. F. Robinson, Tucson, Arizona

Subject: Final report on Wood Mining Company, DMEA-3141 (Copper and Tungsten), San Francisco Mine, Santa Fe County, New Mexico

Enclosed please find the original and 8 copies of the report on the subject docket.

The writer believes that an exploration loan is not warranted because no "significant" amount of copper is likely to be derived as a result of the sinking and exploration at deeper horizons as proposed by the applicant.

A denial is recommended.

Raymond F. Robinson

Raymond F. Robinson
Acting District Supervisor
Arizona - New Mexico

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
P.O. Box 4126, University Station
Tucson 5, Arizona

August 31, 1953

Memorandum

To: A. H. Koschmann, Denver, Colorado

From: R. F. Robinson, Tucson, Arizona

Subject: Final report on Wood Mining Company, San Francisco Mine, Santa Fe County, New Mexico, DMEA-3141 (Copper and Tungsten)

On August 20 I visited the property of the subject docket in the company of Mr. Wood who has an option on it, and Mr. Lloyd Farnham of the U. S. Bureau of Mines. We inspected all the mine workings and surface showings. Mr. Farnham took a few samples. This property is obviously unfit to receive a DMEA loan and a denial is recommended. Reference to Mr. Farnham's report for maps is requested.

The occurrences here are quite typical for the district. Mr. Wood feels that he has another San Pedro mine on hand and thinks that there is a marked similarity between the two places. The exposures in the mine workings and the surface are not in any way suggestive of the magnitude of the San Pedro. The degree of metamorphism is far less intense - there is no marblization of the limestone at the San Francisco. The thickness of the sills which reflect the degree of metamorphism here are noticeably thinner than at the San Pedro.

The "veins" are in reality sections of the limestone which are adjacent to or near granitic sills (two thin ones noted) which have been converted to masses of skarn and later replaced or filled to various extents by chalcopyrite and pyrite. There are four of these veins exposed to date.

The veins are narrow and low grade. They show the greatest widths at or near the surface (within 50 feet of surface) where they strike north 10 - 20 west and dip flatly east 15 to 25 degrees. The greatest width and flat dip is coincidental with the best grade of ore and proximity to the sills. Down the direction of the dip the veins depart from the sill which lies in the footwalls and steepen abruptly to 30 and 45 degrees. They also narrow from four or five feet to a foot or a foot and a half. Leaner ore occurs on the steeper dips. There is no geologic evidence that the structure will flatten out again in depth in which case it might be assumed that the ore would improve in width and possibly grade.

The best way to explore the present showings would probably be to drift along the veins not deeper than 75 feet below the outcrop but this would not develop an appreciable tonnage of copper or warrant an exploration loan. There is no important tonnage of ore left in the present near surface workings because they have been high graded in the past.

Raymond F. Robinson

Raymond F. Robinson
Acting District Supervisor
Arizona - New Mexico

UNITED STATES
DEPARTMENT OF THE INTERIOR
DOUGLAS McKAY, SECRETARY

DEFENSE MINERALS EXPLORATION ADMINISTRATION
REPORT OF EXAMINATION BY FIELD TEAM
REGION IV

DMEA-3141, Wood Mining Co.'s San Francisco Copper Prospect

New Placers Mining District, Santa Fe County, New Mexico

R. F. Robinson, Geologist
U. S. Geological Survey

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

September 1953

SUMMARY, CONCLUSIONS AND RECOMMENDATIONS

By R. F. Robinson[1] and L. L. Farnham[2]

In July 1953, the Wood Mining Company applied to the Defense Mineral Exploration Administration under the Defense Production Act of 1950, as amended, for an exploration loan amounting to $39,994. The application was docketed as DMEA-3141. The funds requested were for the purpose of further exploring a copper-tungsten prospect situated in the San Pedro Mountains of Santa Fe County, N. Mex.

The claims comprising the subject property were originally located in the late 1880's. They were relocated by the present owner in 1946. Production, resulting from periodic lessee operations, has probably amounted to several hundred tons of selected copper ore.

The ore, consisting of chalcopyrite with small amounts of gold-silver, occurred in superimposed bedding plane fractures within a zone of silicified and garnetized limestones which has been invaded by porphyry sills.

The 2 principal mineralized horizons dipped flatly eastward and were separated by some 50 feet of altered limestone. Both beds were of comparable size, with the appreciable copper mineralization limited to a strike length of about 150 feet and an average thickness of not more than 1.5 feet. Thus the inferred potential of each horizon would be of the order of 20 tons per foot of depth.

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

It was estimated from sample results and visual inspection that the average grade of the deposits would not exceed 3.5 percent copper with minor amounts of gold-silver and a negligible quantity of tungsten trioxide.

It was concluded that the deposits were too small, in relation to their grade, to warrant further exploration. Therefore, it is recommended that the application for the loan be denied.

DMEA-3141, WOOD MINING CO.'S SAN FRANCISCO COPPER PROSPECT NEW PLACERS MINING DISTRICT, SANTA FE COUNTY, NEW MEXICO

Engineering Report

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

September 1953

DMEA-3141, WOOD MINING CO.'S SAN FRANCISCO COPPER PROSPECT
NEW PLACERS MINING DISTRICT, SANTA FE COUNTY, NEW MEXICO

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INTRODUCTION

Late in July 1953, the Wood Mining Company applied to the Defense Minerals Exploration Administration under the Defense Production Act of 1950, as amended, for an exploration loan amounting to $39,994. The application was docketed as DMEA-3141. The funds requested were for the purpose of exploring a copper-tungsten prospect at greater depth. The property was visited by the field examiners on August 21, 1953.

ACKNOWLEDGMENTS

Thanks are due Ray C. Wood for his help during the examination.

LOCATION AND PHYSICAL FEATURES

The San Francisco copper prospect is situated about 2 miles southeast of the village of Golden in Secs. 21 and 22, T. 12 N., R. 7 E., New Placers mining district, Santa Fe County, N. Mex.

The subject claims are reached from Golden over 1.9 miles of a steep, rough mountain road that leaves the highway immediately south of the general store (see figure 1).

The property lies on the western flank of the San Pedro Mountains in an area of rugged relief at an altitude of about 7,200 feet above sea level. Los Cerrillos, on the Santa Fe Railroad, is 17 miles north of Golden and the nearest shipping point.

HISTORY AND PRODUCTION

The claims comprising the subject property were said to have been originally located in the late 1880's and were known at that time as the San Francisco group. They were relocated by the present owner in 1946 under the name of the San Pedro group.

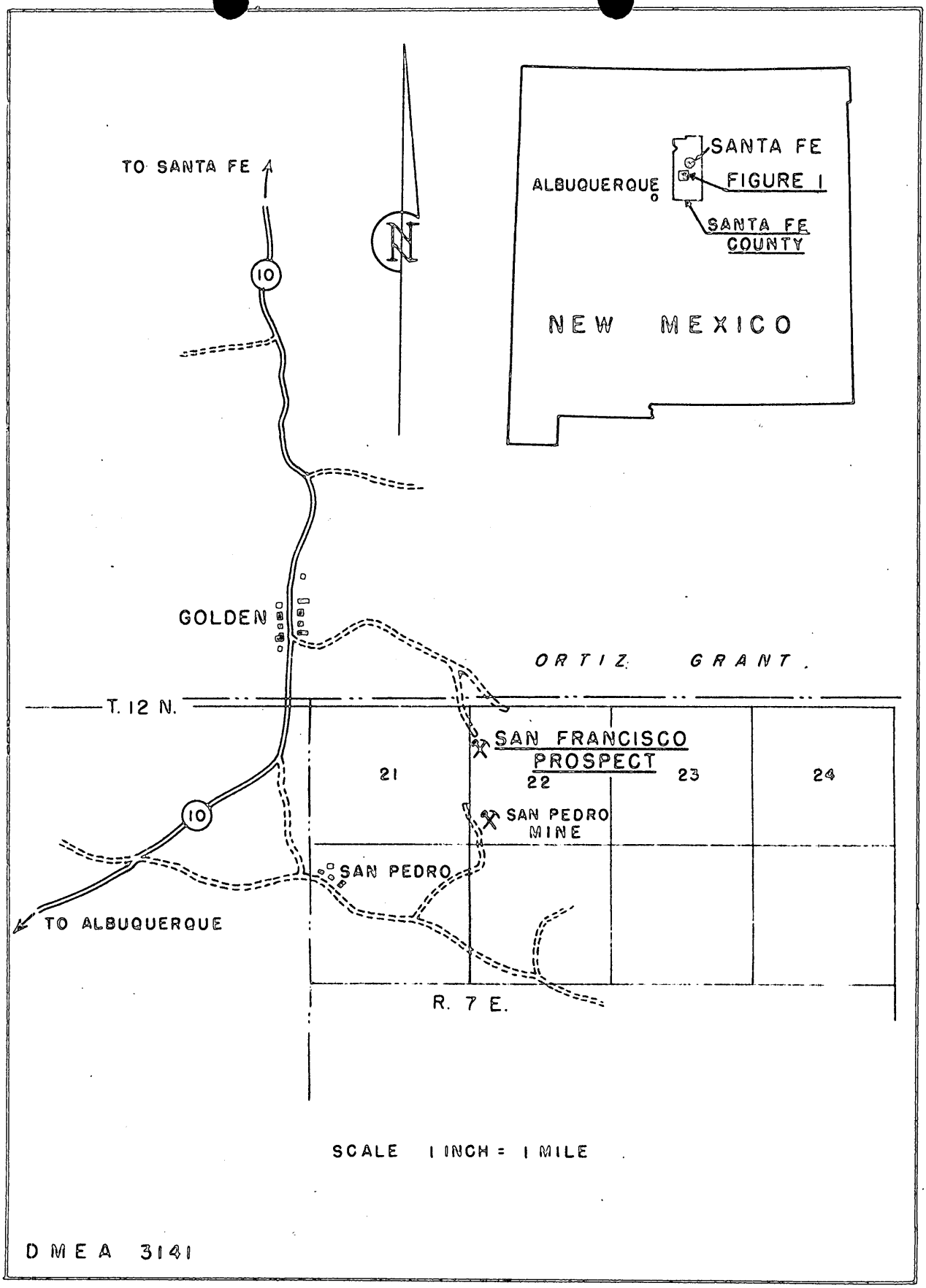

FIGURE 1. - LOCATION MAP - SAN FRANCISCO PROSPECT
NEW PLACERS MINING DISTRICT SANTA FE COUNTY, NEW MEXICO

An unknown but relatively small amount of copper ore has been shipped from the claims as a result of prospecting and "gophering" operations conducted intermittently by various lessees. Judged by the size of the stopes the production has probably been of the order of a few hundred tons of selectively mined and sorted ore.

OWNERSHIP AND EXTENT

The applicant company, a partnership consisting of Ray C. Wood and Edith J. Wood, have a lease and option on 4 unpatented lode claims owned by Earnest Rincon of Golden, N. Mex. The claims are recorded as the San Pedro No. 1, San Pedro No. 2, San Pedro No. 3 and the New Sunset Lode. None are full-sized claims as they either overlap patented ground or conflict with other prior locations. The San Pedro claims are contiguous whereas the Sunset is separated from that group by an intervening fraction known as the Sunnyside (see figure 2).

DESCRIPTION OF THE DEPOSIT

Copper mineralization occurred on the subject property in bedding plane fractures within a series of highly silicified and garnetized limestones which had been invaded by various sized porphyry sills. Three superimposed beds showing the presence of copper minerals were exposed on the San Pedro No. 1 claim. All had northerly strikes and dipped from 15° to 20° eastward. The lower of the 3 mineralized horizons (No. 1) which had been the most extensively explored, ranged from a few inches to several feet in thickness with appreciable copper

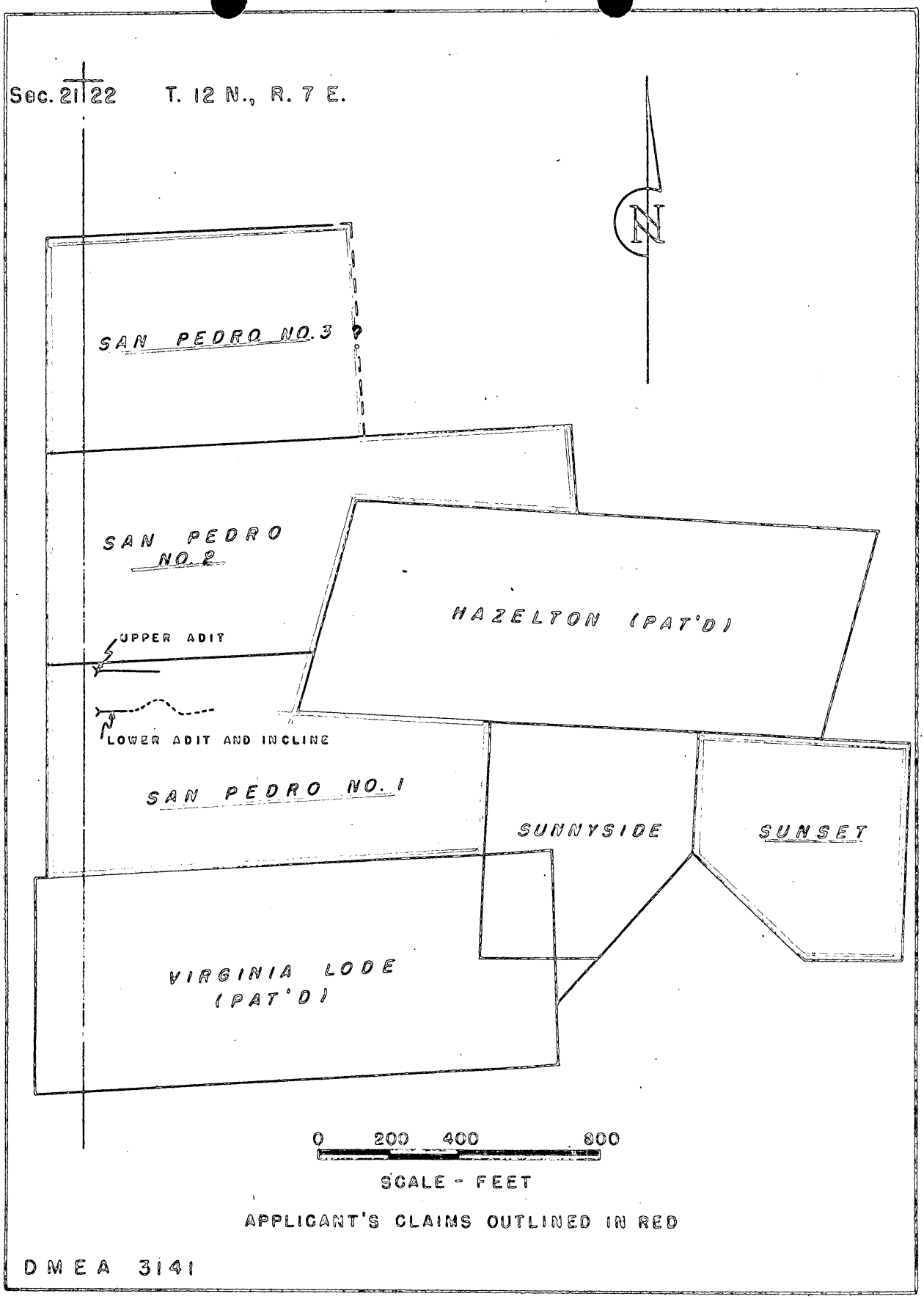

FIGURE 2. - CLAIM MAP - SAN FRANCISCO PROSPECT
NEW PLACERS MINING DISTRICT SANTA FE COUNTY, NEW MEXICO

limited to a strike length of about 150 feet. The second mineralized fracture lying some 50 or 60 feet vertically above the lower was of comparable thickness and length to that of No. 1. The third of uppermost mineralized horizon, some 75 feet above the second bed, appeared to contain but little copper and so had only been explored by a few shallow cuts.

The bulk of the appreciable copper mineralization in the 2 lower beds cropped out in the area lying between the upper and lower adits (see figure 3). The strata in this area were arched with the thickest and best mineralization in both beds occupying the crest of the dome-like warp. In places on the crest of the fold the copper mineralization had been mined over thicknesses of as much as 6 feet but thinned rapidly down the flanks of the arch to 2 feet or less. The fold appeared to die out down the dip of the beds as did the thicker ore.

Chalcopyrite was the principal primary copper mineral and was associated with pyrite and specular hematite. Calcite, quartz and lime silicate minerals were the chief gangue constituents. Scattered specks of scheelite were present in places but no areas were noted where it appeared abundant enough to be significant. The ore, as well as the tactite wall rocks, was extremely hard and tough.

ORE RESERVES

There was no appreciable amount of ore remaining in the workings. The thickness of the mineralized fractures at no great distance below the outcrops ranged from a few inches to 3 feetand would probably

average not more than 1.5 feet. Appreciable amounts of copper in both beds were confined to a strike length of about 150 feet. Thus the potential of each mineralized horizon would be of the order of about 20 tons per foot of depth extension or 40 tons for both beds. As the mineralized fractures were some 50 feet apart each would have to be developed and mined separately.

Samples taken by the applicant at various places in the workings showed a copper content ranging from 2 to 4 percent, small variable amounts of gold and silver and in some cases a few hundredths of one percent WO_3. The results of 2 samples taken by the examiners are given below and their location is shown on figure 3.

		Ozs./ton		Percent	
No.	Width	Au	Ag	Cu	WO_3
12298	1.3 ft.	0.04	1.55	7.85	Less than 0.01
12299	Grab	0.01	0.40	1.54	Less than 0.01

The first sample above appeared typical of the better mineralized material such as was mined in the small stope at the face of the upper adit. The copper mineralization in this stope ranged from 1 to 2 feet in thickness. The second or grab sample was taken from a pile of ore recently broken from the lower mineralized horizon at the bottom of the incline. Here the mineralization was not more than 1.5 feet in thickness.

Judged by the sample results and from the visual inspection of the exposures it appears doubtful that the average grade of the deposits would exceed 3.5 percent copper with a negligible amount of tungsten and minor amounts of gold-silver.

PRESENT STATUS OF EXPLORATION

In addition to various openings along the outcrops the lower mineralized horizon had been explored from 2 crosscut adits and a crooked incline winze that followed the mineralization downward for some 200 feet (see figure 3). Gobbed stopes, some of which probably reached the surface, were evident in the upper part of the incline and on the south side of the upper adit. Due to the evident grade and limited thickness of the mineralization no stoping had been attempted in the lower half of the incline. The upper adit, some 130 feet north of the incline, intersected the lower or No. 1 bed at a distance of about 50 feet from the surface and continued easterly through altered limestone for 130 feet where it cut No. 2 mineralized horizon. This bed had been explored at the face of the adit for about 25 feet along the strike and for 15 feet up the dip by a small stope (see figure 3).

PROPOSED EXPLORATION

The applicant proposed the further exploration of the No. 2 mineralized horizon by means of 750 feet of underground work consisting of 300 feet of inclined winze and 150 feet of drifting on each of 3 levels to be driven from the proposed winze. The winze and the uppermost drift would start at the face of the upper adit (see figures 3).

ESTIMATED COST OF PROJECT

As estimated by the applicant, the total cost of the proposed project would amount to $39,994. These estimates were based on an average advance of 50 feet a month, thus requiring 15 months to complete the work. A summary of the monthly costs as shown in the application are as follows:

Labor, supervision and consultants----------	$1,583.00
Operating materials and supplies ----------	321.00
Operating equipment(rental and use allowance-	281.56
Miscellaneous (including compensation insurance)	230.72
Contingencies ----------	250.00
Total cost per month ----------	$2,666.28
Total cost of project (15 months)----------	$39,994.00
Average cost per foot for 750 feet ----------	$52.32

Some of these items appear high and others low but the overall cost seems reasonable. No distinction was shown betseen the cost of sinking and drifting. In this case the work would penetrate extremely hard and tough tactite which would be extraordinarily difficult to drill and break. Consequently the cost of drifting would probably be about $35 a foot and the winze sinking about $80 a foot.

CONCLUSIONS AND RECOMMENDATIONS

The deposit is considered to be too small in relation to its grade to warrant further exploration. It was the hope of the applicant that some place in the area of the proposed work the deposit would "open up" into much larger ore bodies. The exploratory work to date has failed to disclose substantial ore bodies and there was no evidence to indicate the probability that such might occur in the area of the proposed exploration. Therefore it is recommended that the application for the loan be denied.

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

224 New Customhouse
Denver 2, Colorado

August 7, 1953.

Memorandum

To: Administrator, Defense Minerals Exploration Administration
Attention: Code 200

From: Executive Officer, DMEA Field Team, Region IV

Subject: Docketing for Exploration Assistance

Enclosed herewith in duplicate is DMA Form 3a and MF-103 and supporting data pertaining to the following applications for Government assistance in exploration work:

Markle F. Engledow, Box 325, RFD #1, Ogden, Utah
and
Carl B. McLean, Box 103, Roy, Utah — Manganese

Wood Mining Company
617 Dakota Street, SE
Albuquerque, New Mexico — Copper and Tungsten

John F. Shaw
John F. Shaw
For W. H. King

Enclosures

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

Form Approved.
Budget Bureau No. 42-R1035.2.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
AUG 10 1953

APPLICATION FOR AID IN AN EXPLORATION PROJECT, PURSUANT TO DMEA ORDER 1, UNDER THE DEFENSE PRODUCTION ACT OF 1950, AS AMENDED

Not to be filled in by applicant

Docket No. DMEA-3141
Metal or Mineral
Date Received 8/10/53
Estimated Cost
Participation (Government %)

INSTRUCTIONS

Wood Mining Co., 617 Dakota St.SE, Albuquerque, New Mexico
Partner: Ray C. Wood, 617 Dakota St.SE, Albuquerque, New Mexico
Partner: Edith J. Wood, 617 Dakota St.SE, Albuquerque, New Mexico

1. *Name of applicant.*—(*a*) State here your full legal name, in the form in which you will wish to contract, and your mailing address:

(*b*) If other than an individual, add to your name above whether a corporation, partnership, etc., and the name of the State in which incorporated or otherwise organized.

(*c*) If a corporation, add to above statement, titles, names and addresses of officers.

(*d*) If a partnership, add to the above statement the names and addresses of all partners.

2. *General.*—Read DMEA Order 1, "Government Aid in Defense Exploration Projects," before completing this application. Submit this application and all accompanying papers in quadruplicate (four copies), with your name and address on each sheet of the application and on all accompanying papers. Where sufficient space is not provided on the form for all required information, state it on an accompanying paper, with a reference in each case to the instruction to which it refers by number. Comply with all applicable instructions; or, if not applicable, so state. File the application with Defense Minerals Exploration Administration, Department of the Interior, Washington 25, D. C., or with the nearest field executive officer thereof.

3. *Applicant's property rights.*—(*a*) State the legal description of the land upon which you wish to explore, including all land which you possess or control that may be benefited by the exploration, and excluding any land or interest in land which is not to be included in the exploration project contract See appendix #1

San Francisco

(*b*) State any mine name by which the property is known.

(*c*) State your interest in the land, whether owner, lessee, purchaser under contract, or otherwise lessees

(*d*) If you are not the owner, submit with this application a copy of the lease, contract, or other document under which you control the property.

(*e*) If you own the land, describe any liens or encumbrances on it

(*f*) If the land consists of unpatented claims, add to the description above, the book and page numbers for each recorded location notice.

4. *Physical description.*—(*a*) Describe in detail any mining or exploration operations which have been and are being conducted upon the land, including existing mine workings and production facilities. State your interest, if any, in such operations. Also describe accessibility of mine workings for examination purposes. See appendix #2.

(*b*) State past and current production, and ore reserves, if any, giving quantities and grades.

(*c*) Describe the geologic features of the property, including mineralization, type of deposit (vein, bedded, etc.), and your reasons for wishing to explore. Illustrate with maps or sketches. Send with your application (but not necessarily as a part of it) any geologic or engineering report, assay maps, or other technologic information you may have, indicating on each whether you require its return to you.

(*d*) State the facts with respect to the accessibility of the project: Access roads, distances to shipping, supply and residence points.

(*e*) State the availability of manpower, materials, supplies, equipment, water, and power.

5. *The exploration project.*—(*a*) State the mineral or minerals for which you wish to explore copper and scheelite (see appendix #3.)

(*b*) Describe fully the proposed work, including a map or sketch of the property showing a plan (and cross sections if needed) of any present mine workings, and the location of the proposed exploration work as related to such features as contacts, veins, ore-bearing beds, etc.

(*c*) The work will start within 30 days and be completed within 15 months from the date of an exploration project contract.

(*d*) State the operating experience and background of the applicant with relation to the ability to carry out such exploration project, and also that of the person or persons who will supervise the operations. see attached professional record, append. #3.

6. *Estimate of costs.*—Furnish a detailed estimate of the costs of the proposed work (you will have to use a separate sheet), under the following headings. Add the totals under all headings to give the estimated total cost of the project:

(*a*) *Independent contracts.*—(Note.—If the applicant does not intend to let any of the work to contractors, write "none" after this item. To the extent that the work is to be contracted, do not repeat the cost of the contract-work in subsequent items.) State the cost of any proposed independent contracts for the performance of all or any part of the work, expressed in terms of units of work (such as per foot of drilling, per foot of drifting, per hour of bulldozer operations, per cubic yard of material moved, etc.).

(*b*) *Labor, supervision, consultants.*—Include an itemized schedule of numbers, classes and rates of wages, salaries or fees for necessary labor, supervision and engineering and geological consultants.

(*c*) *Operating materials and supplies.*—Furnish an itemized list, including items of equipment costing less than $50 each, and power, water and fuel.

(*d*) *Operating equipment.*—Furnish an itemized list of any operating equipment to be rented, purchased, or which is owned and will be furnished by the Operator, with the estimated rental, purchase price, or suggested use-allowance based on present value, as the case may be.

(*e*) *Rehabilitation and repairs.*—Furnish a detailed list showing the cost of any necessary initial rehabilitation or repairs of existing buildings, installations, fixtures, and movable operating equipment, now owned by the Operator and which will be devoted to the exploration project.

(*f*) *New buildings, improvements, installations.*—Furnish a detailed list showing the cost of any necessary buildings, fixed improvements, or installations to be purchased, installed or constructed for the benefit of the exploration project.

(*g*) *Miscellaneous.*—Furnish a detailed list showing the cost of repairs to and maintenance of operating equipment (not including initial rehabilitation or repairs of the Operator's equipment), analytical work, accounting, workmen's compensation and employers' liability insurance, and payroll taxes.

(*h*) *Contingencies.*—Give an estimate of any necessary allowances for contingencies not included in the costs stated above.

NOTE.—No items of general overhead, corporate management, interest, taxes (other than payroll and sales taxes), or any other indirect costs, or work performed or costs incurred before the date of the contract, should be included in the estimate of costs.

7. (*a*) Are you prepared to furnish your share of the cost of the proposed project in accordance with the regulations on Government participation (Sec. 7, DMEA No. 1)?

(*b*) How do you propose to furnish your share of the costs?

[x] Money [x] Use of equipment owned by you [x] Other personal supervision

Explain in detail on acompanying paper.

CERTIFICATION

The undersigned, whether as an individual, corporate officer, partner, or otherwise, both in his own behalf and acting for the applicant, certifies that the information set forth in this form and accompanying papers is correct and complete, to the best of his knowledge and belief.

Dated July 30, 1953

Wood Mining Company
(Applicant)

By Ray C. Wood
(partner)

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—66551-1

3.(a) SAN PEDRO #1 County of Santa Fe, New Placers Mini
Located November 1, 1946
#83344 Filed on the 13th day of Noven
at 10:31 AM in Book P of the record o
page 8.

Commencing at this monument where this notice is p
can; thence 150 feet west to a post being the cent
thence 300 feet south to a monument of rock being
west corner, thence 1500 feet to a post being the
corner; thence 300 feet north to a blazed tree bei
center monument; thence 300 feet to a post being t
east corner monument; thence 300 feet east to the
beginning. It is bounded on the south by the Virgi
claim, in the east by the US central monument, in
99 patent claim, in the north by San Pedro #2 clai
location known as "San Francisco #1 Mining Claim",
notice of which was recorded in Book 6, Record of M
Location, on page 2 83.

SAN PEDRO #2 County of Santa Fe, New Placer Mining
Located November 1, 1946
#83345 Filed on the 13th day of Novemb
at 10:31 AM in Book P of the record of
page 8.

Commencing at this monument where this notice is pos
can; thence 300 feet west to a blazed tree, the cent
thence 300 feet to a post being the south-west corne
300 feet to a blazed tree being the east center monu
thence 300 feet north to a blazed tree being the nor
corner, thence 1500 feet west to a blazed tree being
north-west corner; thence 300 feet to the place of b
It is bounded on the south by the San Pedro #1; on t
by the US Government Patent monument; on the west by
claim and on the north by San Pedro #3 Fraction. Bei
known as the "San Francisco #2 Mining Claim", locatio
notice of which was recorded in Book 6, Record of Min
Location, on page 284.

SAN PEDRO #3 FRACTION County of Santa Fe, New Placers
Mining District, Located Novemb
#83343 Filed on the 13th day of
November, 1946 at 10:31 AM in B
of the record of mines, page 7.

The San Pedro #3 Fraction is bounded in the south by
San Pedro #2, on the west by the corner of the St. Pa
patent claim, and on the north east by the Sunny Side
claim. All are adjoining claims. Recorded in Book 6
of Mining Location, on page 283 as the "San Francisco

NEW SUNSET LODE Filed October 25, 1938 at 10:05 AM in
of the record of mines, page 453.
Sections 21-22 T 12 N R 7 E
Survey No. 1020 C Old Sunset Lode

4. (a) San Francisco Incline This incline follows the vein for approximately 230 feet. The width of the vein varies from a few inches to approximately 3 feet.

North Tunnel This tunnel is approximately 125 feet north of the San Francisco Incline and cuts two veins; the first, at approximately 50 feet, correlates with the vein in the incline; and approximately 125 feet to the east, the face of the tunnel cuts the second vein.

4. (b) The San Francisco mine was worked on a very limited scale in the 1920's and most of the work was done by hand methods. Shipments of ore were made but no records are available. However, indications are that the copper content was above 10%.
We obtained a lease on the property on April 1, 1953, and development work has been started.

4. (c) The mine is approximately 2000 feet north of the Old San Pedro copper mine of the Santa Fe Development Company, owned and mined formerly by the Raskob interest.
Mineralization is principally copper with some gold and silver and traces of scheelite. The vein is bedded and dips to the east at about 20°.
We wish to explore in the belief that the vein will open up in pockets, as did the Old San Pedro mine 2000 feet to the south.
The enclosed sketch illustrates the proposed exploration.

4. (d) The property is two miles east of Golden, New Mexico, and 17 miles from Los Cerrillos, New Mexico, the nearest shipping point on the Santa Fe railroad.
Supply point is Albuquerque, New Mexico.
Housing is available at Golden, New Mexico.

4. (e) Manpower is available at Golden, Los Cerrillos, Albuquerque or Santa Fe, New Mexico.
Materials, Supplies, Equipment, etc. are available at Albuquerque.
Water can be hauled from Golden, however, at present there is some water in one of the inclines in the mine.
R.E.A. power comes to Golden; at present a gasoline powered compressor is being used at the mine.

5.(b) The proposed work shown by the broken lines on the enclosed sketch is to be 300 feet of incline shaft on the vein found in the face of the upper tunnel, also drifting along the strike of the vein at the present face of the tunnel at 150 feet and at 300 feet in the proposed new incline, these drifts to be approximately 150 feet long, each 50 feet to the North and 100 feet to the South of the incline. The proposed exploration totals 750 feet of 5' x 7' drift and incline.

6. Estimate of costs, based on 50 feet advance per month.

6.(a) Independent contracts: None

(b) Labor, supervision, consultants:

1 miner	$1.75 p.hr.	176 hrs.	$ 308.00
1 mucker	$1.50 " "	176 "	$ 262.50
1 hoist man	$1.50 " "	176 "	$ 262.50
Supervision			$ 500.00
Geological consultant			$ 250.00
			$1,583.00

(c) Operating materials and supplies:

drill steel (3 sets)	$ 96.00
e-xplosives	$ 75.00
fuel and lubricants	$ 75.00
track	$ 50.00
pipe	$ 25.00
	$ 321.00

(d) Operating equipment:

compressor (rental)	$ 181.56
jackhammer (use allowance)	$ 35.00
hoist (use allowance)	$ 65.00
	$ 281.56

(g) Miscellaneous:

transportation cost	$ 50.00
equipment maintenance	$ 100.00
workmen's compensation insurance	$ 60.72
F.I.C.A.	$ 20.00
	$ 230.72

(h) Contingencies: $ 250.00

Cost per month: $2,666.28 Cost per foot: $53.32

DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
1201 N. DIVISION STREET
SPOKANE 2, WASHINGTON

OFFICIAL BUSINESS

PENALTY FOR PRIVATE USE TO AVOID PAYMENT OF PENALTY

SPOKANE (PM) NV 6 1958

UNITED STATES POSTAGE 3 CENTS 3

DMEA-3141

Mr. George C. Selfridge, Chairman
DMEA Operating Committee
Department of the Interior
Washington 25, D. C.

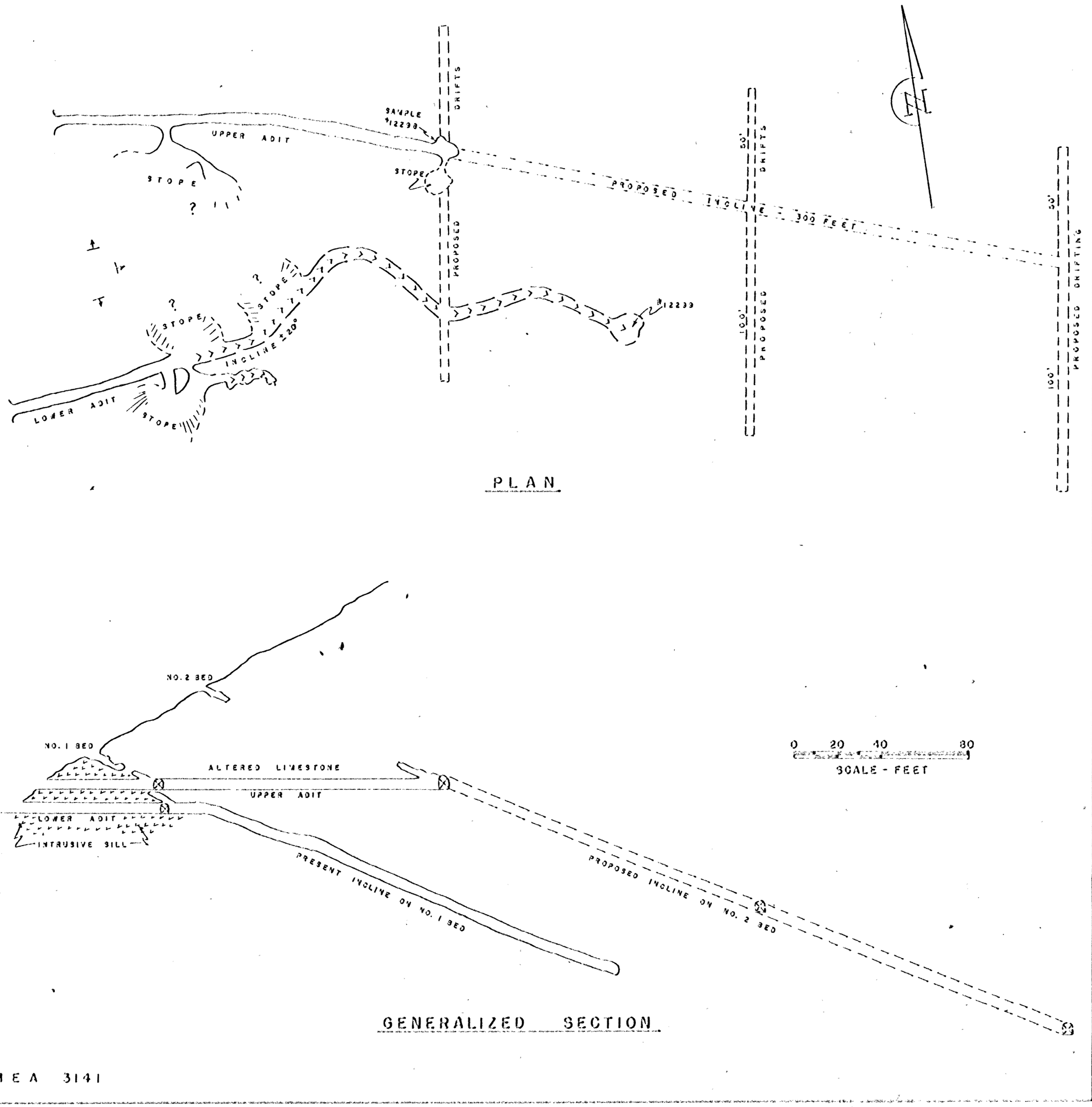

FIGURE 3. - PLAN AND SECTION - SAN FRANCISCO PROSPECT
NEW PLACERS MINING DISTRICT SANTA FE COUNTY, NEW MEXICO

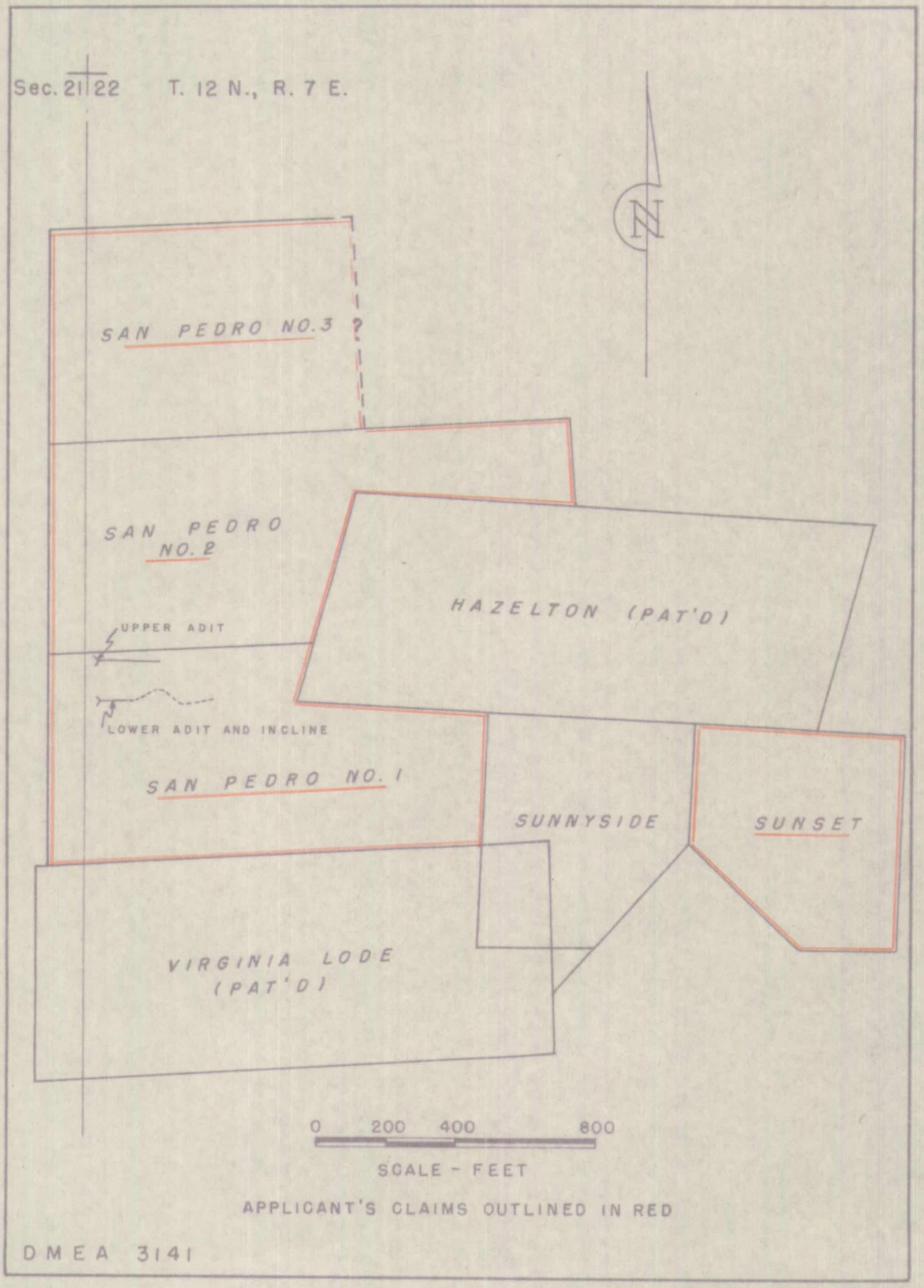

FIGURE 2. - CLAIM MAP - SAN FRANCISCO PROSPECT
NEW PLACERS MINING DISTRICT SANTA FE COUNTY, NEW MEXICO

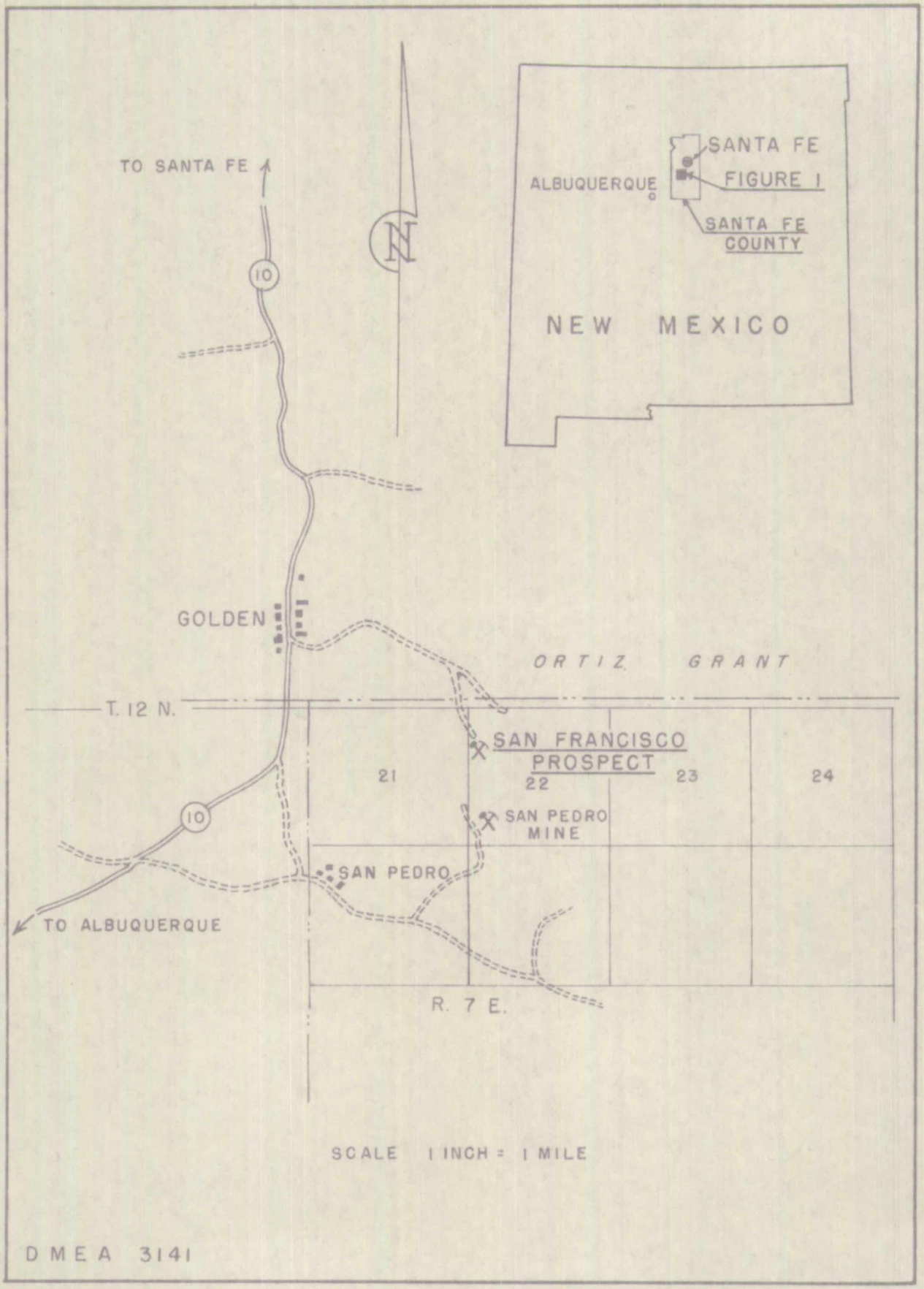

FIGURE 1. - LOCATION MAP - SAN FRANCISCO PROSPECT

NEW PLACERS MINING DISTRICT SANTA FE COUNTY, NEW MEXICO