100

File - Docket No. DMEA 2363 - Tungsten

December 1, 1952

Iron and Ferro-Alloy Division, DMEA

Docket No. DMEA 2363 - Tungsten (Region IV)
Denial by field team of application by
Guido A. Aliprandini & J. Arthur Zappia
Good Enough Mining and Milling Company
Good Enough No. 1 claim
Pima County, Arizona

Under date of January 20, 1952, the subject application in the amount of $18,465.50 was submitted to Region IV, DMEA, and the property was examined on February 13. The proposed work included 225 feet of drifting on the lower and middle adit levels and 250 feet of raising, chiefly from the lower level. Aid was denied on March 20 by the Field Team, Region IV, on the ground that, although some tungsten would probably be found, no significant discovery was likely to result from the project.

Subsequently Mr. Zappia of the subject company requested a re-examination "due to new worthwhile findings of tungsten." Mr. L. J. Farnham, Mining Engineer, USBM, (who with Mr. B. C. Brown, USBM, had made the former DMEA examination) revisited the property on October 9, 1952. The new work consisted principally of a small overhand stope and a 125-foot raise that followed the quartz from the northwesterly end of the lower adit to the surface. The raise contained no ladders and was thus not accessible for examination. In the back of the stope, 34 feet above the lower adit level, the vein was exposed for 7 feet with an average width of 3 feet and was well mineralized with coarse crystals of wolframite. On the basis of the exposures on the surface above and in the back of the drift below, it does not appear reasonable to expect the average strike length of the mineralized area to exceed a few tens of feet. The potential tonnage might be of the order of 300 tons.

The Operator had not sampled the vein exposures, but assay results for two grab samples accompanied his request for reconsideration. One, running 4.44 percent $WO_3$, represented 20 tons of sorted ore from the upper part of the same small stope. The other, running 0.88 percent $WO_3$, represented screened fines from part of the raise tonnage. A grab sample taken by the examining engineer of broken ore from the same small stope assayed 0.42 percent $WO_3$. These erratic results are not indicative of the average grade of the vein, but show that mineable ore is present in spots.

Mr. Zappia, speaking for the Operator, made no request for a loan and had no exploration project to propose. What he and his partner wanted was funds for building a mill and mining and marketing the ore indicated by the development work already accomplished.

Inasmuch as the ore reserve would clearly not justify a mill, it was recommended that arrangements be made to concentrate the Good Enough ore in Elmer Ferastrom's mill less than 3 miles from the subject property. Ferastrom's mill requires ore that contains at least 2 percent $WO_3$.

The field team accordingly denied the application on November 14, 1952, by letter to Messrs. Aliprandini and Zappia. We concur in the denial.

George C. Selfridge

G. C. Selfridge, Chief
Iron and Ferro-Alloy Division

WSMartin:la

Copy to: DOCKET
ADMN. READ. FILE
W. S. MARTIN
G. C. SELFRIDGE
D. M. LEMMON, USGS
R. [illegible] GEHRAN, USBM

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

224 New Customhouse
Denver 2, Colorado

November 14, 1952

Memorandum

To: Administrator, Defense Minerals Exploration Administration
Attention: 210

From: Executive Officer, Field Team, Region IV

Subject: Supplemental Report, DMEA Docket 2363, (Tungsten) Good Enough Mining & Milling Co., Pima County, Arizona

Enclosed are four copies of the Supplemental Report on DMEA Docket 2363. The applicant had requested a re-examination based on their claim that they had new worthwhile findings.

A copy of the letter of denial to the applicants is attached.

W. H. King
W. H. King

A. N. Koschmann
A. N. Koschmann

Enclosures

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
NOV 20 1952

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Mining Division
Region IV

November 14, 1958

Memorandum

To: Field Team, Region IV

From: Acting Chief, Mining Division, Region IV

Subject: Supplemental Report, MMA Project 2563 (Tungsten) Gold Bough Mining and Milling Co., Pima County, Arizona

Enclosed are nine copies of the supplemental report on MMA-2563.

The applicants claimed new worthwhile findings and requested a re-examination of their property.

The examining engineer recommends denial because the development work which has already been done has delineated the lines of ore and further exploration is not warranted.

We concur in this recommendation.

W. H. King
W. H. King

Enclosures

DEPARTMENT OF THE INTERIOR
Bureau Records Administration
Registry
NOV 14 1958

MINING DIVISION
REGION IV

October 17, 1952

Memorandum

To : W. H. King, Acting Chief, Mining Div., Region IV

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

Subject : Request for re-examination by applicant, Docket DMA-2363, Good Enough Mining & Milling Co., Pima County, Ariz.

In answer to your memorandum of October 2, 1952, regarding a re-examination of the tungsten property of the Good Enough Mining & Milling Co., Mr. L. L. Farnham of the Bureau of Mines revisited this property on October 9. A copy of his report is attached.

Possibly 300 tons of tungsten ore have been discovered. This ore, if mined, may be concentrated in Mr. Elmer Fernstrom's mill about 3 miles from the property. As Farnham states, no further Government aid seems necessary at this time.

Walter R. Storms

Walter R. Storms, Chief
Arizona-New Mexico Branch
Mining Division, Region IV

cc W. H. King (O)
DMA-2363
DV

WRStorms:frj

MINING DIVISION
REGION IV

October 17, 1952

Memorandum

To : Walter M. Storms, Chief, Arizona-New Mexico Dr., Mining Div., Region IV, Tucson, Ariz.

From : L. L. Farnham, Mining Engineer, Tucson, Ariz.

Subject : DMA-2363,, Re-examination of the Good Enough Mining and Milling Co's. Tungsten Property, Las Guijas District, Pima County, Arizona

Early in 1952, the above company applied to the Defense Minerals Exploration Administration for a loan to be used for the further exploration of the Good Enough No. 1 tungsten claim in Las Guijas District, Pima County, Ariz. The property was examined in February 1952 and the application was subsequently denied on the grounds that, although some tungsten probably would be found, it appeared unlikely that a significant discovery would result from the proposed work.

In a recent letter to the Executive Officer of Region IV, J. Arthur Zappia of the subject company requested a re-examination of the property. The reason given for the request was, in the words of Zappia, "Due to new worthwhile findings of tungsten". The writer, accompanied by J. Arthur Zappia, revisited the property on October 9, 1952.

The new work accomplished since February was financed by the sale of the company's stock, and consisted principally of a 125-foot inclined raise (60°) and a small overhand stope. Both explored a short, narrow lense of quartz found near the northwesterly end of the lower adit. The quartz along the back of the drift upon which the work started varied from 2 to 12 inches in width and had a length of about 30 feet. Both ends of the lense terminated as an almost unrecognizable fracture. The quartz exposed by the drift was practically devoid of any mineralization.

The 125-foot raise, which followed the quartz from the lower adit to the surface, contained no ladders and consequently was not accessible at the time of the visit. According to Zappia, this raise, although started on barren quartz, encountered "good" ore at a

cc W. M. Ming (orig. & 2)
DMA-2363
LF

LLFarnham:frj

distance of 33 feet above the adit level and remained in ore to within 20 feet of the surface, where the quartz pinched to a mere stringer. The width of the ore in the raise was said to have ranged from 10 inches to 3.5 feet, and according to Zappia, probably averaged about 1.6 feet wide for the 70 feet exposed along the dip. No drifts had been driven on the ore from this raise.

Adjacent to the bottom of the raise a small stope had followed the quartz upward for about 34 feet above the adit level. In this opening at a height of 25 feet the barren quartz suddenly swelled from a width of a few inches to 3.5 feet. Appreciable amounts of wolframite became evident directly above the point where the quartz widened. In the top of this stope the vein was exposed over a length of about 7 feet, where it had an average width of some 3 feet and was well mineralized for the most part with coarse crystals of wolframite. The western end of this opening was evidently the western limit of the tungsten mineralization. The distance between this western limit and the east side of the raise was 26 feet. As the quartz lense in which the wolframite occurred was only 30 feet long on the level, the strike length of the bottom of the mineralized area could hardly be expected to exceed 30 feet. On the surface, what appeared to be the westerly end of this same quartz lense was but an inch or two wide where it cropped out about 10 feet west of the top of the raise. Though a part of the surface was covered immediately east of the top of the raise there was no evidence of a lengthy outcrop of quartz in that direction. In view of this limited extent of the quartz both above and below the ore it does not appear reasonable to expect that the average strike length of the mineralized area would exceed a few tens of feet. If the height of the ore is 70 feet, the average width 1.6 feet as claimed by Zappia, and the strike length is 30 feet as indicated on the bottom level, then the potential of the mineralized area would be of the order of 300 tons.

The operator made no attempt to systematically sample the vein exposures. An assay certificate, showing the results of 2 grab samples, was submitted with the request for a re-examination of the property. One of these samples, containing 4.44 percent $WO_3$, was said to represent about 20 tons of sorted ore that came from the vein in the upper portion of the small stope. The other sample, containing 0.88 percent $WO_3$, was taken from a pile of fines that had been screened out of some of the material broken in the 125-foot raise. A grab sample taken by the writer from the top and sides of a pile of broken ore that came from the small stope contained 0.42 percent $WO_3$. These erratic results are in no way indicative of the average tungsten content of the vein but show that bunches of "good" ore as well as lean material are present in the mineralized area.

The applicant company, represented by J. Arthur Zappia, made no request for a loan, nor did Zappia have any specific proposals in mind as to future work. He said that the company had exhausted its funds and needed additional money to build a mill and carry on the project. Obviously the ore reserves are insufficient to justify a mill. Development work already has indicated the limits of the ore body, so further exploration for additional ore does not seem to be warranted at this time.

The problem facing the operators is that of mining and marketing the ore that is now indicated. Elmer Fernstrom owns and operates a small tungsten concentrating mill situated less than 3 miles from the subject property. In a recent telephone conversation with Elmer Fernstrom, he informed the writer that arrangements could be made whereby the Good Enough ore could be concentrated in this mill, provided it contained at least 2 percent $WO_3$. An arrangement of this kind would seem to be the best procedure for the applicant to pursue. In any event, it does not appear that further consideration should be given to a request for Government aid if such an application is submitted by the company.

R. R. Farnham

R. R. Farnham, Mining Engineer
Arizona-New Mexico branch
Mining Division, Region IV

STANDARD FORM NO. 64

# Office Memorandum • UNITED STATES GOVERNMENT

TO : File - Docket No. DMEA 2363 - Tungsten DATE: December 1, 1952

FROM : Iron and Ferro-Alloy Division, DMEA

Noted
COM

SUBJECT: Docket No. DMEA 2363 - Tungsten (Region IV)
Denial by field team of application by
Guido A. Aliprandini & J. Arthur Zappia
Good Enough Mining and Milling Company
Good Enough No. 1 claim
Pima County, Arizona

Under date of January 20, 1952, the subject application in the amount of $18,465.50 was submitted to Region IV, DMEA, and the property was examined on February 13. The proposed work included 225 feet of drifting on the lower and middle adit levels and 250 feet of raising, chiefly from the lower level. Aid was denied on March 20 by the Field Team , Region IV, on the ground that, although some tungsten would probably be found, no significant discovery was likely to result from the project.

Subsequently Mr. Zappia of the subject company requested a re-examination "due to new worthwhile findings of tungsten." Mr. L. L. Farnham, Mining Engineer, USBM, (who with Mr. B. C. Brown, USBM, had made the former DMEA examination) revisited the property on October 9, 1952. The new work consisted principally of a small overhand stope and a 125-foot raise that followed the quartz from the northwesterly end of the lower adit to the surface. The raise contained no ladders and was thus not accessible for examination. In the back of the stope, 34 feet above the lower adit level, the vein was exposed for 7 feet with an average width of 3 feet and was well mineralized with coarse crystals of wolframite. On the basis of the exposures on the surface above and in the back of the drift below, it does not appear reasonable to expect the average strike length of the mineralized area to exceed a few tens of feet. The potential tonnage might be of the order of 300 tons.

The Operator had not sampled the vein exposures, but assay results for two grab samples accompanied his request for reconsideration. One, running 4.44 percent $WO_3$, represented 20 tons of sorted ore from the upper part of the same small stope. The other, running 0.88 percent $WO_3$, represented screened fines from part of the raise tonnage. A grab sample taken by the examining engineer of broken ore from the same small stope assayed 0.42 percent $WO_3$. These erratic results are not indicative of the average grade of the vein, but show that mineable ore is present in spots,

Mr. Zappia, speaking for the Operator, made no request for a loan and had no exploration project to propose. What he and his partner wanted was funds for building a mill and mining and marketing the ore indicated by the development work already accomplished.

Inasmuch as the ore reserve would clearly not justify a mill, it was recommended that arrangements be made to concentrate the Good Enough ore in Elmer Fernstrom's mill less than 3 miles from the subject property. Fernstrom's mill requires ore that contains at least 2 percent $WO_3$.

The field team accordingly denied the application on November 14, 1952, by letter to Messrs. Aliprandini and Zappia. We concur in the denial.

G. C. Selfridge

G. C. Selfridge, Chief
Iron and Ferro-Alloy Division

FILE COPY
SURNAME:

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

File - Docket No. DMEA 2363 - Tungsten

December 1, 1952

Martin
Jeffrey

Iron and Ferro-Alloy Division, DMEA

Docket No. DMEA 2363 - Tungsten (Region IV)
Denial by field team of application by
Guido A. Aliprandini & J. Arthur Zappia
Good Enough Mining and Milling Company
Good Enough No. 1 claim
Pima County, Arizona

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George C. Selfridge

G. C. Selfridge, Chief
Iron and Ferro-Alloy Division

WSMartin:ls

Copy to: DOCKET
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W. S. MARTIN
G. C. SELFRIDGE
D. M. LEMMON, USGS
R. W. GEEHAN, USBM

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Mining Division
Region IV

November 14, 1952

Memorandum

To: Field Team, Region IV

From: Acting Chief, Mining Division, Region IV

Subject: Supplemental Report, IMMA Docket 2363 (Sunglow) Good Enough Mining and Milling Co., Pima County, Arizona

Enclosed are nine copies of the supplemental report on IMMA-2363.

The applicants claimed new worthwhile findings and requested a re-examination of their property.

The examining engineer recommends denial because the development work which has already been done has delineated the limits of ore and further exploration is not warranted.

We concur in this recommendation.

W. H. King
W. H. King

Enclosures

Department of the Interior
Science Mineral Information
RECEIVED
NOV 1 0 1952

MINING DIVISION
REGION IV

October 17, 1952

Memorandum

To : W. H. King, Acting Chief, Mining Div., Region IV

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

Subject : Request for re-examination by applicant, Docket DMM-2363, Good Enough Mining & Milling Co., Pima County, Ariz.

In answer to your memorandum of October 2, 1952, regarding a re-examination of the tungsten property of the Good Enough Mining & Milling Co., Mr. L. L. Farnham of the Bureau of Mines revisited this property on October 9. A copy of his report is attached.

Possibly 300 tons of tungsten ore have been discovered. This ore, if mined, may be concentrated in Mr. Elmer Fernstrom's mill about 3 miles from the property. As Farnham states, no further Government aid seems necessary at this time.

Walter R. Storms

Walter R. Storms, Chief
Arizona-New Mexico Branch
Mining Division, Region IV

cc W. H. King (6)
DMM-2363
DF

WRStorms:frj

distance of 33 feet above the adit level and remained in ore to within 20 feet of the surface, where the quartz pinched to a mere stringer. The width of the ore in the raise was said to have ranged from 10 inches to 3.5 feet, and according to Zappia, probably averaged about 1.6 feet wide for the 70 feet exposed along the dip. No drifts had been driven on the ore from this raise.

Adjacent to the bottom of the raise a small stope had followed the quartz upward for about 34 feet above the adit level. In this opening at a height of 25 feet the barren quartz suddenly swelled from a width of a few inches to 3.5 feet. Appreciable amounts of wolframite became evident directly above the point where the quartz widened. In the top of this stope the vein was exposed over a length of about 7 feet, where it had an average width of some 3 feet and was well mineralized for the most part with coarse crystals of wolframite. The western end of this opening was evidently the western limit of the tungsten mineralization. The distance between this western limit and the east side of the raise was 26 feet. As the quartz lense in which the wolframite occurred was only 30 feet long on the level, the strike length of the bottom of the mineralized area could hardly be expected to exceed 30 feet. On the surface, what appeared to be the westerly end of this same quartz lense was but an inch or two wide where it cropped out about 10 feet west of the top of the raise. Though a part of the surface was covered immediately east of the top of the raise there was no evidence of a lengthy outcrop of quartz in that direction. In view of this limited extent of the quartz both above and below the ore it does not appear reasonable to expect that the average strike length of the mineralized area would exceed a few tens of feet. If the height of the ore is 70 feet, the average width 1.6 feet as claimed by Zappia, and the strike length is 30 feet as indicated on the bottom level, then the potential of the mineralized area would be of the order of 300 tons.

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The applicant company, represented by J. Arthur Zappia, made no request for a loan, nor did Zappia have any specific proposals in mind as to future work. He said that the company had exhausted its funds and needed additional money to build a mill and carry on the project. Obviously the ore reserves are insufficient to justify a mill. Development work already has indicated the limits of the ore body, so further exploration for additional ore does not seem to be warranted at this time.

The problem facing the operators is that of mining and marketing the ore that is now indicated. Elmer Fernstrom owns and operates a small tungsten concentrating mill situated less than 3 miles from the subject property. In a recent telephone conversation with Elmer Fernstrom, he informed the writer that arrangements could be made whereby the Good Enough ore could be concentrated in this mill, provided it contained at least 2 percent $WO_3$. An arrangement of this kind would seem to be the best procedure for the applicant to pursue. In any event, it does not appear that further consideration should be given to a request for Government aid if such an application is submitted by the company.

L. L. Farnham, Mining Engineer
Arizona-New Mexico branch
Mining Division, Region IV

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

224 New Customhouse
Denver 2, Colorado

November 14, 1952

Memorandum

To: Administrator, Defense Minerals Exploration Administration
Attention: 210

From: Executive Officer, Field Team, Region IV

Subject: Supplemental Report, DMEA Docket 2363, (Tungsten) Good Enough Mining & Milling Co., Pima County, Arizona

Enclosed are four copies of the Supplemental Report on DMEA Docket 2363. The applicant had requested a re-examination based on their claim that they had new worthwhile findings.

A copy of the letter of denial to the applicants is attached.

W. H. King
W. H. King

A. H. Koechmann
A. H. Koechmann

Enclosures

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
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Docket

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

224 New Customhouse
Denver 2, Colorado

November 14, 1952

Messrs. Aliprandini and Zappia
Good Enough Mining and Milling Co.
650 South Fourth Avenue
Tucson, Arizona

Re: Docket DMEA 2363

Gentlemen:

In accordance with your request dated August 19 to have your property re-examined because you had new findings of tungsten, the re-examination has been made.

Projects approved by the Defense Minerals Exploration Administration must, in its judgement, 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.

The re-examination of your property indicates that the development work you have done to date has delimited the lines of ore and further exploration is not warranted. We therefore regret to inform you that your application for exploration aid is denied.

Very truly yours,

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
NOV 20 1952

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

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

HMC:oc

cc: Administrator (DMEA)
WRStorms
Subject
Chron.
AHKoschmann (2)

Reviewed by
DMEA OPERATING COMMITTEE
11-24-53
(Date)

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

224 New Customhouse
Denver 2, Colorado

March 20, 1952

Memorandum

To: Acting Administrator, Defense Minerals Exploration Adm.
Attention: Code 210

From: Field Team, Region IV

Subject: DMEA-2363, Guido A. Aliprandini and J. Arthur Zappia, partners, Good Enough Mining & Milling Co. (Tungsten) Pima County, Arizona

Enclosed are the original and three copies of the final report on DMEA Docket 2363, the original and one copy of DMA Form 3b, and a copy of the letter of denial to the applicant.

W. H. King
W. H. King for
J. H. East, Jr.

A. H. Koschmann
A. H. Koschmann

Enclosures

Forms 3B detached in Rec'd. 3/27/52 BL

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

224 New Customhouse
Denver 2, Colorado

March 20, 1952

Messrs. Aliprandini and Zappia
Good Enough Mining and Milling Co.
650 South Fourth Ave.
Tucson, Arizona

Dear Sirs:

Your request for exploration aid, DMEA-2363, on your property located in Sec. 31, T. 20 S., R. 9 E., in the Las Guijas Mining District, Pima County, Arizona has received careful consideration.

A field examination indicates that there is little possibility of making a worthwhile discovery of strategic minerals on your property. We therefore regret to inform you that your application for aid is denied.

Very truly yours,

W. H. King

W. H. King for
J. M. East, Jr.
Field Team, Region IV

A. H. Koschmann
A. H. Koschmann

cc: Acting Administrator, DMEA

Mining Division
Region IV

March 20, 1952

Memorandum

To: Field Team, Region IV

From: Acting Chief, Mining Division, Region IV

Subject: DMEA 2363, Guido A. Alpegiani and J. Arthur Zuppia, Partners, Good Enough Mining & Milling Co., Lay Guido Tungsten District, Pima County, Arizona

Enclosed are eight copies of the Engineering Report by L. L. Fursman and R. G. Brown of the Bureau of Mines.

The [illegible] examination revealed little likelihood of worthwhile mineral discovery on this property.

We concur in the recommendation of the examining engineers that the application for aid be denied.

W. H. King
W. H. King

Declassified
Designated [illegible]
[illegible]
Mar 2, 1964

Reviewed by
DMEA OPERATING COMMITTEE
3-31-52.
(date)

March 19, 1952

Memorandum

Mining Division
Date Rec'd.
MAR 1[illegible] 1952
BUREAU OF MINES
Denver, Colorado

To : W. H. King, Denver, Colorado

From : Chief, Arizona-New Mexico Branch

Subject: Final Report, RFC Docket 2363, Good Enough Mining & Milling Co., Las Guijas Tungsten District, Pima County, Ariz.

Enclosed are original and 7 copies of the above report by L. L. Farnham and R. C. Brown of the Bureau of Mines. No separate geological report will be submitted.

This report, recommending denial of the exploration loan, has my approval.

Brochure is enclosed.

Walter R. Storms

CC W. H. King (7)
C. A. Anderson
RFC-2363
DF

WRStorms:als

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

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION IV

# DMEA-2363, Good Enough Mining & Milling Co.

# Las Guijas Tungsten District

# Pima County, Arizona

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

B. C. Brown, Mining Engineer
U. S. Bureau of Mines

March 1952

## SUMMARY, CONCLUSIONS AND RECOMMENDATIONS

By L. L. Farnham[1] and B. C. Brown[1]

In January 1952, Guido A. Aliprandini and J. Arthur Zappia, partners in the Good Enough Mining and Milling Co., applied to the Defense Minerals Exploration Administration for an exploration loan amounting to $18,465.50. The application was docketed as DMEA-2363. The funds requested were to be used in the further exploration of the Good Enough No. 1 tungsten claim. The property was visited by the field team on February 13, 1952.

The Good Enough No. 1 claim, formerly a part of the Soto group, is located on the easterly end of the Las Guijas tungsten district of southern Pima County, Ariz.

Mining operations, conducted intermittently on the property since the first World War, have resulted in the production of about 1,000 units of $WO_3$. This production came from a narrow quartz lense occuring in a steeply dipping fracture zone in granite. Although the fracture zone was well explored throughout the greater portion of its strike length on 3 levels, only one short quartz segment was found to contain sufficient wolframite to justify mining. This oreshoot was stoped from the surface to a depth of some 110 feet. There it decreased to about one-half of the stope length it formerly had at the outcrop, thus suggesting at least, that the orebody might terminate before reaching a much greater depth.

---

1/ Mining Engineer, U. S. Bureau of Mines

No ore remained exposed in the accessible mine workings, so that sampling was useless. Hence the only means of judging the future potential value of the property was necessarily based upon its past productivity. Computations of the stope volumes indicated that some 1,500 tons had been mined which was estimated to have yielded about 1,000 units of $WO_3$. On this basis and assuming that the downward extension of the orebody was found, the best that could be reasonably expected to result from the proposed exploration would be to indicate 1,100 tons of ore containing about 730 units of $WO_3$.

In the opinion of the examiners, this amount of marginal ore, if found, would not constitute a significant discovery. Therefore it is recommended that the requested loan be denied.

# GOOD ENOUGH MINING AND MILLING CO.
# LAS GUIJAS MINING DISTRICT
# PIMA COUNTY, ARIZONA
# DMEA-2363

Engineering Report

By L. L. Farnham
Mining Engineer

B. C. Brown
Mining Engineer
U. S. Bureau of Mines

March 1952

GOOD ENOUGH MINING AND MILLING CO.
LAS GUIJAS MINING DISTRICT
PIMA COUNTY, ARIZONA
DMEA-2363

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ILLUSTRATIONS


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## INTRODUCTION

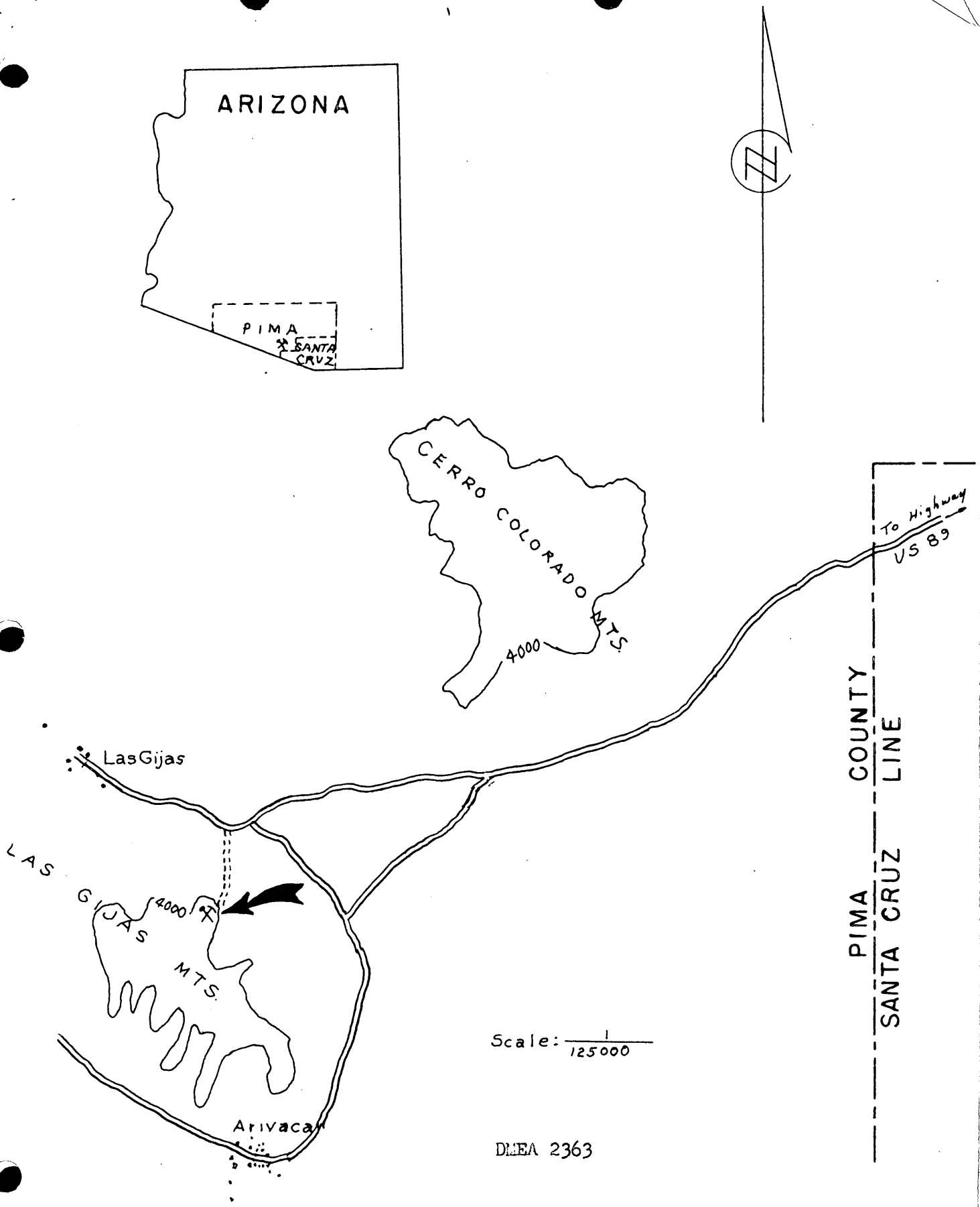
In January 1952, Guido A. Aliprandini and J. Arthur Zappia, partners doing business as the Good Enough Mining and Milling Co., applied to the Defense Minerals Exploration Administration for an exploration loan amounting to $18,465.50. The application was docketed as DMEA-2363. The funds requested were to be used for further drifting and raising in the search for tungsten ore in the mine workings on the Good Enough No. 1 mining claim. The writers visited the property on February 13, 1952.

## ACKNOWLEDGMENTS

Thanks are extended to J. Arthur Zappia and Guido Aliprandini for their help during the investigation of the property. Acknowledgments are made to the engineers and geologists of the U. S. Bureau of Mines and the Geological Survey whose data were used in this report.

## LOCATION AND PHYSICAL FEATURES

The Good Enough mining claims are about 59 miles southwest of Tucson in Sec. 31, T. 20 S., R. 9 E., in the Las Guijas mining district in southern Pima County, Ariz. The property is reached by driving 37 miles south from Tucson on U. S. Highway 89 to Kinsley, thence west for 15 miles on a good gravel road to a junction marked Mary D mine. Follow the right-hand branch for 6 miles to a small mill in Las Guijas wash. A short distance beyond the mill, an unimproved road branches to the left and in about one mile, ends at the portal of the lower adit on the Good Enough No. 1 claim (figure 1).




DMEA 2363

LOCATION MAP

FIGURE 1 GOOD ENOUGH NO. 1 TUNGSTEN PROSPECT, PIMA COUNTY, ARIZONA

The mine workings are located on the easterly slope of a moderately steep hillside on the northerly flank of the Las Guijas range. Altitudes range from 3,780 feet at the lower adit to over 4,000 feet above sea level at the top of the hill.

The semi-arid area supports a sparse growth of mesquite, ocotillo and cactus.

Shallow wells in Las Guijas wash furnish a limited water supply, sufficient, however, for small scale mining and milling operations in the district.

## HISTORY AND PRODUCTION

The Good Enough mining claims, formerly a part of the Soto group, are said to have been located originally for silver in 1892. After being abandoned and relocated several times, they were acquired in 1929 by Frank Zappia and associates from whom they were recently purchased by the applicants.

The total production of tungsten from the entire Las Guijas district, dating from the first World War, has amounted to some 18,000 units of which it has been estimated about 1,000 units,[1] came from the Good Enough No. 1 claim. Since 1943 only small scale lessee operations have been conducted in the district and little, if any, additional production has resulted from later work on the Good Enough property.

---

1/ Krauskopf, K. and Stopper, R., Tungsten Deposits of the Las Guijas Hills, Pima County, Ariz. Unpublished report of U. S. Geol. Survey, April, 1943.

## OWNERSHIP AND EXTENT

The applicants, J. A. Zappia and G. A. Aliprandini, claim ownership of 2 contiguous unpatented mining locations, known as the Good Enough No. 1 and the Good Enough No. 2. It was upon the No. 1, the most easterly of the 2 claims, that the proposed exploration was contemplated.

## DESCRIPTION OF THE DEPOSIT

Tungsten minerals of the wolframite series with minor associated scheelite occur in quartz lenses within an irregular fracture zone in granitic rocks. Numerous cuts and shallow pits on the Good Enough No. 1 claim expose the outcrop of the zone for some 800 feet. It trends N. 75° W. and dips about 60° northward. The irregular and discontinuous quartz bodies within the fissure range from 10 to 50 feet in length and vary from a few inches to as much as 5 feet in width. They pinch and swell abruptly both along the strike and the dip. Cross fracturing and post mineral lamprophyre dikes further complicate the structure. Both appeared, in some cases, to have been responsible for the abrupt termination of quartz segments.

The fracture zone had been explored continuously along the strike for a distance of some 500 feet. The bulk of the quartz encountered within this distance was barren or showed only occasional small crystals of tungsten minerals. The productive portion of the vein, where the small sporadic bunches of wolframite were sufficiently numerous to justify mining, had a strike length of about 80 feet along the outcrop.

On the middle adit level, some 75 feet below the surface, the oreshoot had decreased to a stope length of 38 feet (figure 2). The underhand stope and winze below the middle adit was not accessible so nothing is known of the size and value of the orebody at its deepest point of development. As shown on the longitudinal section of the accompanying map, no stoping was done from the bottom portion of the winze. This lack of stoping might be interpreted as indicating a further shortening of the ore shoot at that depth. The nonpersistence of the tungsten ore bodies for any considerable distance below the surface appears to be generally true throughout the Las Guijas district. The larger ore bodies, lying to the west of the Good Enough claims, were much more productive in the upper 200 feet than they were in lower horizons. These ore bodies furnished over 90 percent of the district's tungsten production.

## ORE RESERVES

There was no minable ore remaining in the accessible portions of the mine. Small isolated crystals of wolframite were observed in several places but nothing approaching the grade of ore was apparent. Consequently no samples were taken and any appraisal of the future value of the deposit must necessarily be based upon its past record.

Some ore may remain in the bottom of the inaccessible underhand stope and winze below the middle adit, but this could not be verified.

The following quotation was taken from the report of J. H. East, Jr. of the U. S. Bureau of Mines, who examined the Good Enough property in February 1942:

"There are no pockets of ore remaining in the mine to be sampled and hubnerite crystals can be seen only in a few places. Grab samples were taken of the muck piles below the stopes where pockets had been mined."

The above sample results by East, are shown as follows:

| Sample No. | Description | Percent $WO_3$ |
|---|---|---|
| No. 1 | Grab of broken ore left on floor of drift in middle adit. | 0.01 |
| No. 2 | Grab of broken ore left on floor of drift in middle adit - 1st stope. | 0.01 |
| No. 3 | Grab ore pile in underhand stope below middle adit. | 0.21 |

The dimensions of the accessible stopes were found by the present writers to be substantially as shown on the accompanying map. A computation of the volumes of the stopes indicated that about 1,500 tons had been mined to a depth of 110 feet, which would be equivalent to an average of about 14 tons of ore per vertical foot. According to available estimates, 1,000 units of $WO_3$ were produced, so that potential of the productive vein area, assuming its continuity, would be of the order some 9 units of $WO_3$ for each foot of depth extension.

## PRESENT STATUS AND PROPOSED EXPLORATION

The plan and longitudinal projection of the mine workings, together with the proposed exploration, are shown on figure 2. This map, brought up to date, is largely the result of the work of the U. S. Geological Survey which carefully mapped the mine in 1943.

In the event that the property would warrant further work, only a small part of the exploration, as proposed by the applicant, appeared feasible. The most logical area in which to search for additional ore would be within the downward projection of the former productive vein area. Insomuch as the fracture zone has already been well explored along the greater portion of its known length at various elevations, it would seem that further drifting and raising outside of the known productive area would hardly be likely to encounter worthwhile ore bodies. Should further exploration be undertaken the most logical proceedure would consist of extending the lower adit on the vein to the area below the stopes in the upper levels. If this drifting found sufficient ore, then the raise from the lower adit to the bottom of the winze below the middle adit would be in order. This portion of the proposed work would explore the former productive area at an additional depth of about 80 feet below the bottom of the lowest stope. Based on the past productivity of the mine, the best that could be reasonably expected to result from the successful conclusion of the proposed project would be to outline some 1,100 tons of ore containing in the neighborhood of 730 units of $WO_3$.

## ESTIMATED COST OF THE PROJECT

The estimated cost of the proposed project as given in the application is as follows:

| | |
|---|---|
| Rehabilitation and repair of buildings ..... | None |
| Necessary additional facilities ..... | None |
| Cost of equipment, rented or purchased ..... | None |
| 225 feet of drifting @ $35.98 ..... | $ 8,095.50 |
| 250 feet of raising @ $41.48 ..... | 10,370.00 |
| Total cost of project ..... | $18,465.50 |

The applicants would furnish the following equipment at the specified monthly depreciation:

| | Monthly depreciation |
|---|---|
| 1 - 160 cfm gasoline driven compressor ..... | $ 50.00 |
| 1 - Stoper drill ..... | 15.00 |
| 1 - Drifter drill ..... | 15.00 |
| 1 - Jackhammer ..... | ----- |
| Total monthly depreciation ..... | $ 80.00 |

According to the applicants the proposed work could start immediately after signing the contract and be completed in 175 working days. The applicants have signified their willingness to bear their share ($4,616.38) of the cost of the proposed exploration.

## CONCLUSIONS AND RECOMMENDATIONS

Since the first World War a production of about 1,000 units of $WO_3$ has resulted from intermittent mining operations on the Good Enough No. 1 claim. Wolframite was mined from a narrow quartz lense occupying a fracture zone in granite. Although the vein system was well prospected along the greater portion of its extent only one relatively short ore shoot was found. This productive area was apparantly the most extensive on and near the surface where it was mined along the strike for about 80 feet. At the bottom of the stoped area, some 100 feet below the outcrop, the stope had decreased to about one-half of its former length.

No minable ore remained in the accessible workings so the only available method of judging the future possibilities of the deposit was necessarily based upon its past productivity. The computed volumes of the stopes indicated that about 1,500 tons had been mined. This was estimated to have contained not more than 1,000 units of tungsten trioxide. Judged on the basis of this previous yield and assuming the continuity of the ore shoot in both its former size and grade, the best that could be expected to result from the proposed exploration would be to indicate about 1,100 tons of ore containing 730 units of $WO_3$. Considering the characteristics of the ore bodies in the neighboring mines and the apparant tendency of the Good Enough ore shoot to shorten with increasing depth, it would appear that the odds would favor finding less ore, rather than more as estimated above.

In the opinion of the writers it is very unlikely that a significant discovery would result from the proposed work. Therefore further exploration of the property is not recommended.

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

224 New Customhouse
Denver 2, Colorado

March 20, 1952

Memorandum

To: Acting Administrator, Defense Minerals Exploration Adm.
Attention: Code 210

From: Field Team, Region IV

Subject: DMEA-2363, Guido A. Allprandini and J. Arthur Zappia, partners, Good Enough Mining & Milling Co. (Tungsten) Pima County, Arizona

Enclosed are the original and three copies of the final report on DMEA Docket 2363, the original and one copy of DMA Form 3b, and a copy of the letter of denial to the applicant.

W. H. King
W. H. King for
J. H. East, Jr.

A. H. Koschmann
A. H. Koschmann

Enclosures

Mining Division
Region IV

March 28, 1952

Memorandum

To: Field Team, Region IV

From: Acting Chief, Mining Division, Region IV

Subject: DMEA 1363, Robin A. Alexander and J. Arthur Dugan, Partners, Coal Bangle Mining & Milling Co., Lee Heifer Tungsten Diggings, Pima County, Arizona

Enclosed are eight copies of the Engineering Report by L. L. Fenton and D. C. Brown of the Bureau of Mines.

The field examination revealed little likelihood of worthwhile mineral discovery on this property.

We concur in the recommendation of the examining engineers that the application for aid be denied.

W. H. King
W. H. King

Reviewed by
DMEA OPERATING COMMITTEE
3-31-52
(JHS) (date)

March 19, 1952

Memorandum

To : W. H. King, Denver, Colorado

From : Chief, Arizona-New Mexico Branch

Subject: Final Report, DMEA Docket 2363, Good Enough Mining & Milling Co., Los Guijas Tungsten District, Pima County, Ariz.

Mining Division
Date Rec'd.
MAR 19 1952
BUREAU OF MINES
Denver, Colorado

Enclosed are original and 7 copies of the above report by L. L. Farnham and B. C. Brown of the Bureau of Mines. No separate geological report will be submitted.

This report, recommending denial of the exploration loan, has my approval.

Brochure is enclosed.

Walter R. Storms

CC W. H. King (7)
C. A. Anderson
DMEA-2363
DF

WRStorms:als

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

DEFENSE MINERALS EXPLORATION ADMINISTRATION

# REPORT OF EXAMINATION BY FIELD TEAM
REGION IV

## DMEA-2363, Good Enough Mining & Milling Co.

## Las Guijas Tungsten District

## Pima County, Arizona

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

B. C. Brown, Mining Engineer
U. S. Bureau of Mines

March 1952

## SUMMARY, CONCLUSIONS AND RECOMMENDATIONS

By L. L. Farnham[1] and B. C. Brown[1]

In January 1952, Guido A. Aliprandini and J. Arthur Zappia, partners in the Good Enough Mining and Milling Co., applied to the Defense Minerals Exploration Administration for an exploration loan amounting to $13,465.50. The application was docketed as DMEA-2363. The funds requested were to be used in the further exploration of the Good Enough No. 1 tungsten claim. The property was visited by the field team on February 13, 1952.

The Good Enough No. 1 claim, formerly a part of the Soto group, is located on the easterly end of the Las Guijas tungsten district of southern Pima County, Ariz.

Mining operations, conducted intermittently on the property since the first World War, have resulted in the production of about 1,000 units of $WO_3$. This production came from a narrow quartz lense occuring in a steeply dipping fracture zone in granite. Although the fracture zone was well explored throughout the greater portion of its strike length on 3 levels, only one short quartz segment was found to contain sufficient wolframite to justify mining. This oreshoot was stoped from the surface to a depth of some 110 feet. There it decreased to about one-half of the stope length it formerly had at the outcrop, thus suggesting at least, that the orebody might terminate before reaching a much greater depth.

---

1/ Mining Engineer, U. S. Bureau of Mines

No ore remained exposed in the accessible mine workings, so that sampling was useless. Hence the only means of judging the future potential value of the property was necessarily based upon its past productivity. Computations of the stope volumes indicated that some 1,500 tons had been mined which was estimated to have yielded about 1,000 units of $WO_3$. On this basis and assuming that the downward extension of the orebody was found, the best that could be reasonably expected to result from the proposed exploration would be to indicate 1,100 tons of ore containing about 730 units of $WO_3$.

In the opinion of the examiners, this amount of marginal ore, if found, would not constitute a significant discovery. Therefore it is recommended that the requested loan be denied.

GOOD ENOUGH MINING AND MILLING CO.
LAS GUIJAS MINING DISTRICT
PIMA COUNTY, ARIZONA
DMEA-2363

Engineering Report

By L. L. Fannham
Mining Engineer

B. C. Brown
Mining Engineer
U. S. Bureau of Mines

March 1952

GOOD ENOUGH MINING AND MILLING CO.
LAS GUIJAS MINING DISTRICT
PIMA COUNTY, ARIZONA
DMEA-2363

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## INTRODUCTION

In January 1952, Guido A. Aliprandini and J. Arthur Zappia, partners doing business as the Good Enough Mining and Milling Co., applied to the Defense Minerals Exploration Administration for an exploration loan amounting to $18,465.50. The application was docketed as DMEA-2363. The funds requested were to be used for further drifting and raising in the search for tungsten ore in the mine workings on the Good Enough No. 1 mining claim. The writers visited the property on February 13, 1952.


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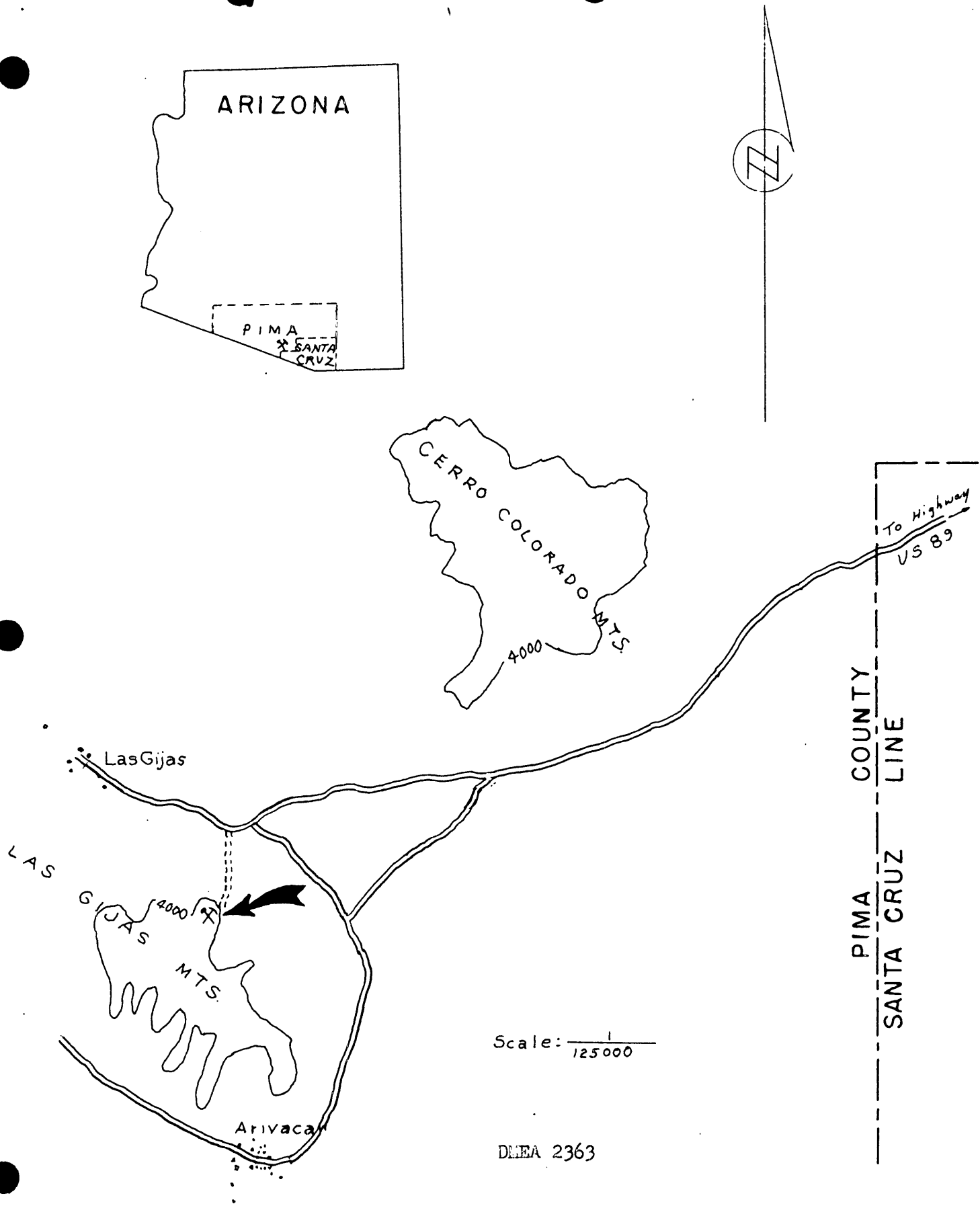
The Good Enough mining claims are about 59 miles southwest of Tucson in Sec. 31, T. 20 S., R. 9 E., in the Las Guijas mining district in southern Pima County, Ariz. The property is reached by driving 37 miles south from Tucson on U. S. Highway 89 to Kinsley, thence west for 15 miles on a good gravel road to a junction marked Mary D mine. Follow the right-hand branch for 6 miles to a small mill in Las Guijas wash. A short distance beyond the mill, an unimproved road branches to the left and in about one mile, ends at the portal of the lower adit on the Good Enough No. 1 claim (figure 1).




DLEA 2363

LOCATION MAP

FIGURE 1 GOOD ENOUGH NO. 1 TUNGSTEN PROSPECT, PIMA COUNTY, ARIZONA

The mine workings are located on the easterly slope of a moderately steep hillside on the northerly flank of the Las Guijas range. Altitudes range from 3,780 feet at the lower adit to over 4,000 feet above sea level at the top of the hill.

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## OWNERSHIP AND EXTENT

The applicants, J. A. Zappia and C. A. Aliprandini, claim ownership of 2 contiguous unpatented mining locations, known as the Good Enough No. 1 and the Good Enough No. 2. It was upon the No. 1, the most easterly of the 2 claims, that the proposed exploration was contemplated.

## DESCRIPTION OF THE DEPOSIT

Tungsten minerals of the wolframite series with minor associated scheelite occur in quartz lenses within an irregular fracture zone in granitic rocks. Numerous cuts and shallow pits on the Good Enough No. 1 claim expose the outcrop of the zone for some 800 feet. It trends N. 75° W. and dips about 60° northward. The irregular and discontinuous quartz bodies within the fissure range from 10 to 50 feet in length and vary from a few inches to as much as 5 feet in width. They pinch and swell abruptly both along the strike and the dip. Cross fracturing and post mineral lamprophyre dikes further complicate the structure. Both appeared, in some cases, to have been responsible for the abrupt termination of quartz segments.

The fracture zone had been explored continuously along the strike for a distance of some 500 feet. The bulk of the quartz encountered within this distance was barren or showed only occasional small crystals of tungsten minerals. The productive portion of the vein, where the small sporadic bunches of wolframite were sufficiently numerous to justify mining, had a strike length of about 80 feet along the outcrop.

On the middle adit level, some 75 feet below the surface, the oreshoot had decreased to a stope length of 38 feet (figure 2). The underhand stope and winze below the middle adit was not accessible so nothing is known of the size and value of the orebody at its deepest point of development. As shown on the longitudinal section of the accompanying map, no stoping was done from the bottom portion of the winze. This lack of stoping might be interpreted as indicating a further shortening of the ore shoot at that depth. The nonpersistence of the tungsten ore bodies for any considerable distance below the surface appears to be generally true throughout the Las Guijas district. The larger ore bodies, lying to the west of the Good Enough claims, were much more productive in the upper 200 feet than they were in lower horizons. These ore bodies furnished over 90 percent of the district's tungsten production.

## ORE RESERVES

There was no minable ore remaining in the accessible portions of the mine. Small isolated crystals of wolframite were observed in several places but nothing approaching the grade of ore was apparent. Consequently no samples were taken and any appraisal of the future value of the deposit must necessarily be based upon its past record.

Some ore may remain in the bottom of the inaccessible underhand stope and winze below the middle adit, but this could not be verified.

The following quotation was taken from the report of J. H. East, Jr. of the U. S. Bureau of Mines, who examined the Good Enough property in February 1942:

"There are no pockets of ore remaining in the mine to be sampled and hubnerite crystals can be seen only in a few places. Grab samples were taken of the muck piles below the stopes where pockets had been mined."

The above sample results by East, are shown as follows:

| Sample No. | Description | Percent $WO_3$ |
|---|---|---|
| No. 1 | Grab of broken ore left on floor of drift in middle adit. | 0.01 |
| No. 2 | Grab of broken ore left on floor of drift in middle adit - 1st stope. | 0.01 |
| No. 3 | Grab ore pile in underhand stope below middle adit. | 0.21 |

The dimensions of the accessible stopes were found by the present writers to be substantially as shown on the accompanying map. A computation of the volumes of the stopes indicated that about 1,500 tons had been mined to a depth of 110 feet, which would be equivalent to an average of about 14 tons of ore per vertical foot. According to available estimates, 1,000 units of $WO_3$ were produced, so that potential of the productive vein area, assuming its continuity, would be of the order some 9 units of $WO_3$ for each foot of depth extension.

## PRESENT STATUS AND PROPOSED EXPLORATION

The plan and longitudinal projection of the mine workings, together with the proposed exploration, are shown on figure 2. This map, brought up to date, is largely the result of the work of the U. S. Geological Survey which carefully mapped the mine in 1943.

In the event that the property would warrant further work, only a small part of the exploration, as proposed by the applicant, appeared feasible. The most logical area in which to search for additional ore would be within the downward projection of the former productive vein area. Inasmuch as the fracture zone has already been well explored along the greater portion of its known length at various elevations, it would seem that further drifting and raising outside of the known productive area would hardly be likely to encounter worthwhile ore bodies. Should further exploration be undertaken the most logical proceedure would consist of extending the lower adit on the vein to the area below the stopes in the upper levels. If this drifting found sufficient ore, then the raise from the lower adit to the bottom of the winze below the middle adit would be in order. This portion of the proposed work would explore the former productive area at an additional depth of about 80 feet below the bottom of the lowest stope. Based on the past productivity of the mine, the best that could be reasonably expected to result from the successful conclusion of the proposed project would be to outline some 1,100 tons of ore containing in the neighborhood of 730 units of $WO_3$.

## ESTIMATED COST OF THE PROJECT

The estimated cost of the proposed project as given in the application is as follows:

| | |
|---|---|
| Rehabilitation and repair of buildings ..... | None |
| Necessary additional facilities ..... | None |
| Cost of equipment, rented or purchased ..... | None |
| 225 feet of drifting @ ₱35.98 ..... | ₱ 8,095.50 |
| 250 feet of raising @ ₱41.48 ..... | 10,370.00 |
| Total cost of project ..... | ₱18,465.50 |

The applicants would furnish the following equipment at the specified monthly depreciation:

| | Monthly depreciation |
|---|---|
| 1 - 160 cfm gasoline driven compressor ..... | ₱ 50.00 |
| 1 - Stoper drill ..... | 15.00 |
| 1 - Drifter drill ..... | 15.00 |
| 1 - Jackhammer ..... | ----- |
| Total monthly depreciation ..... | ₱ 80.00 |

According to the applicants the proposed work could start immediately after signing the contract and be completed in 175 working days. The applicants have signified their willingness to bear their share (₱4,616.38) of the cost of the proposed exploration.

## CONCLUSIONS AND RECOMMENDATIONS

Since the first World War a production of about 1,000 units of $WO_3$ has resulted from intermittent mining operations on the Good Enough No. 1 claim. Wolframite was mined from a narrow quartz lense occupying a fracture zone in granite. Although the vein system was well prospected along the greater portion of its extent only one relatively short ore shoot was found. This productive area was apparantly the most extensive on and near the surface where it was mined along the strike for about 80 feet. At the bottom of the stoped area, some 100 feet below the outcrop, the stope had decreased to about one-half of its former length.

No minable ore remained in the accessible workings so the only available method of judging the future possibilities of the deposit was necessarily based upon its past productivity. The computed volumes of the stopes indicated that about 1,500 tons had been mined. This was estimated to have contained not more than 1,000 units of tungsten trioxide. Judged on the basis of this previous yield and assuming the continuity of the ore shoot in both its former size and grade, the best that could be expected to result from the proposed exploration would be to indicate about 1,100 tons of ore containing 730 units of $WO_3$. Considering the characteristics of the ore bodies in the neighboring mines and the apparant tendency of the Good Enough ore shoot to shorten with increasing depth, it would appear that the odds would favor finding less ore, rather than more as estimated above.

In the opinion of the writers it is very unlikely that a significant discovery would result from the proposed work. Therefore further exploration of the property is not recommended.

Form MF-103
(Revised June 1951)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Budget Bureau No. 42-R1035.1.

MF-103 Should Be Filed With General Technical Data Form MF-100

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

*Not To Be Filled in by Applicant*

Docket No. DMeA-2363
Metal or Mineral
Date Received 2-4-52
Amount $
Participation (Government %)

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
FEB 4 1952

Name and address of applicant

Guido A. Aliprandini, 15 S. Fremont
J. Arthur Zappia, 650 So. 4th Ave.
Partners DBA
Good Enough Mining and Milling Co.
650 So. 4th Ave.
Tucson, Arizona

Date January 20, 1952

If you have already filed MF-100, give date filed _____, type of assistance requested _____,

DMA Docket Number (if available) _____

## INSTRUCTIONS

Read Mineral Order 5, Regulations Governing Government Aid in Defense Projects, before completing this application. Submit four copies each, of the signed application form, General Technical Data Form MF-100, and answers to questions as specified, to Defense Minerals Administration, Department of the Interior, Washington 25, D. C., or to the nearest field executive office thereof, with your name and address on each sheet of the application and all accompanying papers. If you have previously filed MF-100, it is not necessary to file it again. However, you should indicate in space provided above the type of assistance previously applied for (loans, procurement contracts, etc.) and DMA Docket Number, if available. *When a question is inapplicable it should be so stated in the form.* Additional sheets should be attached in answering any questions or in supplying additional information. IF YOU CANNOT ANSWER A QUESTION, SO STATE.

1. (*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. Good Enough Mine No. 1, Sec. 31, TWP 20 S, R 10 E, G & S, R B & M, Pima County, Arizona

   (*b*) If you are not the owner of the property, submit a copy of the lease, purchase option, or other agreements under which you are authorized to operate the property with each copy of your application.

   (*c*) Give the legal description of the exact parcel, plot, or area upon which the exploration is to be conducted. Mine Claim Good Enough No. 1, Las Guijas Mining District, Pima County, Arizona, (Book of Mines 75 Page 36 of Mine Records, Pima County, Arizona)

   NOTE: (1) 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 (*c*) 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.

   (2) If applicant is not the owner of the property or if there are any liens or encumbrances against the property, copy of agreements of claimants, lienors, encumbrances, and lessors subordinating their interests in the property to the interest of the Government under the Exploration Project Contract will be required for attachment to the Contract.

2. (*a*) What metals or minerals do you expect to find? Wolframite (Tungsten WO3)

   (*b*) Furnish statement of the geologic features of your property, giving type of ore deposit and reasons for expecting to find commercial ore bodies. Illustrate with maps or sketches. If you have a geologic or engineering report, or assay maps showing width and grade, please send them with application, stating whether or not you wish to have them returned.

16—64067-2

See attached map & report by S. S. Williams

The information requested in questions 3, 4, 5, 6, 7, 8, and 9 below should be answered specifically and in detail, as this information will be attached to and incorporated as part of the Exploration Project Contract, if such contract is entered into with you by the Government.

ANSWER EACH QUESTION ON SEPARATE SHEETS OF PAPER AND SUBMIT A COPY OF EACH ANSWER FOR EACH COPY OF YOUR APPLICATION.

3. (*a*) Describe fully the proposed work and give the total cost of the project.

   (*b*) State the time required to start the project and to complete it.

4. Submit a map or sketch of the property involved showing a plan (and cross section, if needed) of the present mine workings and the *location of the proposed exploration work* as related to geologic features, such as contacts, veins, ore-bearing beds, etc.

5. Furnish an itemized list of existing facilities, buildings, installations, and fixtures with a statement of the cost of any necessary rehabilitation or repairs to put into useful and operable condition.

6. Furnish a detailed list of additional facilities, buildings, and fixtures to be purchased, installed, or erected by you, with the estimated cost of each item.

7. Furnish a detailed list of operating equipment, separated into items to be—

   (*a*) Rented

   (*b*) Purchased

   (*c*) Furnished by you

   with the rental, purchase price, or depreciation of each item, as the case may be, to be charged as a cost of the project.

8. Furnish an itemized schedule of labor, by numbers and classes (miners, muckers, etc.) and of supervisors by numbers and positions, with the maximum wages or salaries to be paid to each.

9. Furnish a detailed list with estimated cost of each item for materials, supplies, engineering, assaying, accounting, power, water, utilities, and any other items not provided for above.

10. (*a*) How much are you prepared to invest in the proposed project?

    (*b*) Is this amount sufficient to pay your part of the cost of the project, in accordance with the regulations on Government participation (Sec. 9 of MO–5)?

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

## 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.

Guido Alifrandini

Good Enough Mining & Milling Co. — By J. Arthur Zappia
(Name of company) — (Signature of authorized official)

January 20, 1952 — Partners
(Date) — (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—64067-2

This picture is of the Good Enough No. 1 Claim facing East showing the 3 adits, located in the Las Guijas Mts., Pima County, Arizona.

# GOOD ENOUGH MINE No. 1

The mine lies within the area described by E. D. Wilson as containing the principal tungsten-bearing veins of Las Guijas Mountains(1).

Past production has come from a large quartz vein which has been developed on three levels. This vein strikes roughly N 75° W, and varies in dip from about 55° to roughly 75° northward. It has been offset locally by cross faults, and is cut by altered black minette dikes which strike about N 45° W.

Ore shoots are locallized in the quartz vein, generally near cross faults. They are irregular in size and shape. Grade of the ore is also irregular, past production reportedly having come mainly from 1% to 3% rock, but reportedly having included high grade pockets of +50% $WO_3$ material.

Experience in the district indicates that wall rock alteration for several feet away from ore includes coarse sericitization and local red surface stain. Recent exploration on the lower level has reach a favorably altered area and exposed a small shoot of wolframite, below and to the eastward of the stoped area of the upper levels.

Attention of DMEA investigators is invited to a U. S. Geological Survey report on the area made in 1943 (2). In connection with the careful study of the district, the Good Enough Mine No.1, was carefully mapped geologically and sampled. Results of this work, together with several maps, are on file at the office of the U. S. Bureau of Mines in Tucson.

(1) Tungsten Deposits of Arizona, by Eldred D. Wilson: Arizona Bureau of Mines, Geological Series No.14, Bulletin No. 148, April 1, 1941

(2) Tungsten Deposits of the Las Guijas Hills, Pima County, Arizona, by Krauskopf and Stopper; unpublished U. S. Geological Survey report dated April 22, 1943

REGISTERED GEOLOGIST
CERTIFICATE EXPIRES
SETON S. WILLIAMS
DEC. 31, 1952
ARIZONA, U.S.A.

Respectfully submitted,

Seton S. Williams

Seton S. Williams

Good Enough Mining & Milling Co., 650 S. 4th Ave., Tucson, Ariz.

3. (a) 250 feet of Raise 4'x7' with man way, timber one side, 6 inch ventilation line, 2 inch air line, 3/4 inch water line.
Cost $41.48 per foot, total $10,370.00. List attached.

225 feet of drift tunnel, 5'x7', with 4 inches by 4 inches by 3 feet ties every 3 feet; 12 lbs. rail 2 inches air line, 3/4" water line, 6" ventilation line.
Cost $35.98 per foot, total $8,095.50. List attached.

Total for above work $18,465.50

(b) Ready to start at once. Expect to complete in 175 working days.

4. Map attached.

5. 2 One room houses and 1 two room house, 600 feet of rail, 145 feet 2" air line, 145' 3/4" water line, 150' 6" ventilation line, 100 ties 4"x4"x3' long. Rail and ties are ready in tunnel. Also water line, air line, and ventilation line are ready.

6. None.

7. (a) None. (b) None.
(c) Rental (Depreciation) One 160 CFM Gardner Denver Compressor $50.00 per month.
Air Receiver, water tank, drifter & steel complete $15.00 per month.
Air Receiver, water tank, stoper & steel complete $15.00 per month.

8. Maintenance man, mechanic and timekeeper $15.00 per day.
Miner $13.50 per day.
Miner's Helper $11.00 per day.
Mucker or trammer $10.00 per day.

21 working days per month, 8 Hr. shifts.

9. Part time consulting engineer and supervisor $200.00 per month.
Part time bookkeeper $30.00 per month.
Assays, 90 samples $4.00 each ($360.00)

Gasoline 25¢ gal., 2" pipe 35¢', 3/4" pipe 14¢', 6" ventilation pipe (2nd hand) 50¢', Blasting fuse $1.35 a hundred feet, drill bits (Throwaway) 22 1/2¢ each, Blasting Caps $2.35 a hundred, Carbide $8.00 a hundred lbs., blasting powder $21.75 a hundred lbs, timber $160.00 a thousand board feet, ties 4"x4"x3' 25¢ each, spikes 5¢ each, rail 12 lbs 10¢ lb.

10. (a) $4,616.38 (b) Yes

11. The estimates per foot for drifting $35.98 and for raising $41.48 are based on work carried out by day pay labor.
We believe that the cost per foot of above can be reduced by contract work, and we offer to do the drifting for $30.50 per foot, and the raising for $35.75 per foot. We will do this work under contract per foot which will be a saving to the government, and to ourselves as follows: 250' of raises 4'x7' with man way 6"x6" Timber 2" sides, air line, water line, and ventilation line. We will furnish all labor, material, machinery, consulting engineer and supervisor, and bookkeeper for $35.75 per foot, total $8,937.50. We will do the work of 225' of drifting 5'x7', 12 lbs. rail, 4"x4" ties every 3ft. air line, water line, ventilation line. We will furnish all labor, material, machinery, engineering, supervising & bookkeeping & assaying for $30.50 per foot, total $6,862.50.

Total for above jobs $15,800.00, our share $3,950.00.

Form MF-103, Page 3
(Revised June 1951)
Good Enough Mining & Milling Co., 650 S. 4th Ave., Tucson, Ariz.

3. (a)

LIST AS FOLLOWS FOR 225 ft. 5'x7' DRIFT (75 working days to complete):

| MATERIAL & LABOR | COST PER 8 HR. SHIFT AV. CUT 3 FT. | COST PER FOOT |
|---|---|---|
| Rent for 160 CFM Compressor, Drifter complete with steel | $ 3.00 | $ 1.00 |
| Gasoline 25 gal. for compressor & water pump | 6.25 | 2.08 1/3 |
| 3 ft. Air line, 2 inch | 1.05 | .35 |
| 3 ft. Water Line, 3/4 inch | .42 | .14 |
| 3 ft. Ventilation line, 6 inches | 1.50 | .50 |
| Powder, 25 lbs. | 5.18 | 1.72 2/3 |
| 75 ft. Fuse | 1.00 | .33 1/3 |
| Carbide for Lamps | .50 | .16 2/3 |
| Blasting Caps | .34 | .11 1/3 |
| Rail 12 lbs. 6 ft. | 3.60 | 1.20 |
| 1 Tie 4"x4"x3' | .25 | .08 1/3 |
| 4 Rail Spikes | .20 | .06 1/3 |
| Throwaway Bits, 45 (drill) | 9.90 | 3.30 |
| Maintenance man, mechanic and timekeeper | 15.00 | 5.00 |
| Miner | 13.50 | 4.50 |
| Miner's helper | 11.00 | 3.66 2/3 |
| Mucker | 10.00 | 3.33 1/3 |
| Part time Consulting Engineer and Supervisor | 9.50 | 3.16 2/3 |
| Assay and Sampling | .36 | .12 |
| Bookkeeping | 1.33 | .44 1/3 |
| | $ 93.88 | $ 31.29 1/3 |
| Contingency 15% (Supplies and replacement parts) | 14.08 | 4.69 1/3 |
| Totals | $107.96 | $ 35.98 2/3 |

Above tabulation based on 21 shifts per month with estimated advance of 3 ft. per shift.
Monthly depreciation of compressor $50.00.
Drifter machine complete with drilling steel, air receiver, and water pressure tank $15.00.
Part time consulting engineer, supervisor $200.00 per month.
Bookkeeper $30.00 per month.

FORM MF-103, Page 4
(Revised June 1951)
Good Enough Mining & Milling Co., 650 S. 4th Ave., Tucson, Ariz.
3. (a)
6.
9.

LIST AS FOLLOWS FOR 250 FEET OF RAISES (4'x7'):

(Timber the man way one side miner's way)

84 working days to complete

| MATERIAL & LABOR | COST PER 8 HR. SHIFT AV. CUT 3 FT. | COST PER FOOT |
|---|---|---|
| Rent for 160 CFM Compressor, stoper and steel added | $ 3.00 | $ 1.00 |
| Gasoline 25 gal. for compressor & water pump | 6.25 | 2.08 1/3 |
| 3 ft. Air line, 2 inch | 1.05 | .35 |
| 3 ft. Water line, 3/4 inch | .42 | .14 |
| 3 ft. Ventilation line, 6 inches | 1.50 | .50 |
| Powder, 25 lbs. | 5.18 | 1.72 2/3 |
| 100 ft. of fuse | 1.35 | .45 |
| 45 Drill bits, Throwaway | 9.90 | 3.30 |
| Timber, 90 board ft. | 14.40 | 4.80 |
| Carbide for Lamps | .50 | .16 2/3 |
| 15 Blasting Caps | .34 | .11 1/3 |
| Maintenance man and mechanic and timekeeper | 15.00 | 5.00 |
| Miner | 13.50 | 4.50 |
| Miner's helper | 11.00 | 3.66 2/3 |
| Trammer | 10.00 | 3.33 1/3 |
| Part time Consulting Engineer & Supervisor | 9.50 | 3.16 2/3 |
| Assay and Sampling | 4.00 | 1.33 1/3 |
| Bookkeeping | 1.33 | .44 1/3 |
| | $108.22 | $36.07 1/3 |
| Contingency 15% (Supplies and replacement parts) | 16.23 | 5.41 |
| Totals | $124.45 | $41.48 1/3 |

Above tabulation based on 21 shifts per month with estimated advance of 3 ft. per shift.
Monthly depreciation of compressor $50.00.
Stoper machine complete with drilling steel, air receiver, and water pressure tank $15.00.
Part time consulting engineer, supervisor $200.00 per month.
Bookkeeper $30.00 per month.

Form MF-100
(May 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. DMEA-2363

Date received 2-4-52

Guido A. Aliprandini, 15 S. Fremont
J. Arthur Zappia, 650 So. 4th Ave.
Partners, dba
Good Enough Mining and Milling Co.
650 S. 4th Ave.
Tucson, Arizona

Name and address of applicant

Date January 20, 1952

## 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) priorities or allocation of mining equipment, and maintenance, repair and operating supplies, and (5) 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? Wolframite (Tungsten WO3)
   (*b*) What are the byproducts, if any? None
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. None
   (*b*) Linear feet of drifts and crosscuts. 800 ft.
   (*c*) Linear feet of tunnels or adits. 800 ft.
   (*d*) Linear feet of other mine openings (explain briefly). Stope to depth of 140 ft.
   Indicate whether mine is flooded or not. No Describe any pumping problems None ive size or productive capacity. 10 tons per day
3. For each operation listed above supply the following:
   (*a*) Distance and direction from nearest town and shipping point. 58 Mi. Southwest from Tucson, Arizona
   (*b*) Mining district. Las Guijas Mining District
   (*c*) Township, Section, Range. TWP 20 S, Section 31, Range 10 E
   (*d*) County, State. Pima County, Arizona
4. (*a*) State whether or not property is now in operation, and if in operation, by whom operated. No
   (*b*) Are you operating this property as:
   ☒ Owner.
   ☐ Lessee.
   ☐ Contractor.
5. Number of years in production 2 years previously
   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. 3 years mining in tungsten district
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.
   Rider attached for 7. (A), (b), (c)

16—63792-2

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.) | Tungsten Concentrates 60% WO3 | | | 90 units | |
| 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. M[illegible] attached

(*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: From Tucson, 35 miles paved & 23 miles good gravel road county kept

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

14. Water Supply: Good pump well at millsite 1 mile from mine (good all year round)

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

15. Power: Gasoline motors

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

16. Labor: Partnership Labor

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

17. Equipment and Facilities: List attached

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.

Good Enough Mining & Milling Co.
(Name of company)

By Guido Alipranchini
J. Arthur Zappia
(Signature of authorized official)

January 20, 1952
(Date)

Partners
(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.**

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7. (a) From information by previous owners, it is estimated that this property has produced 10,000 units of WO3.

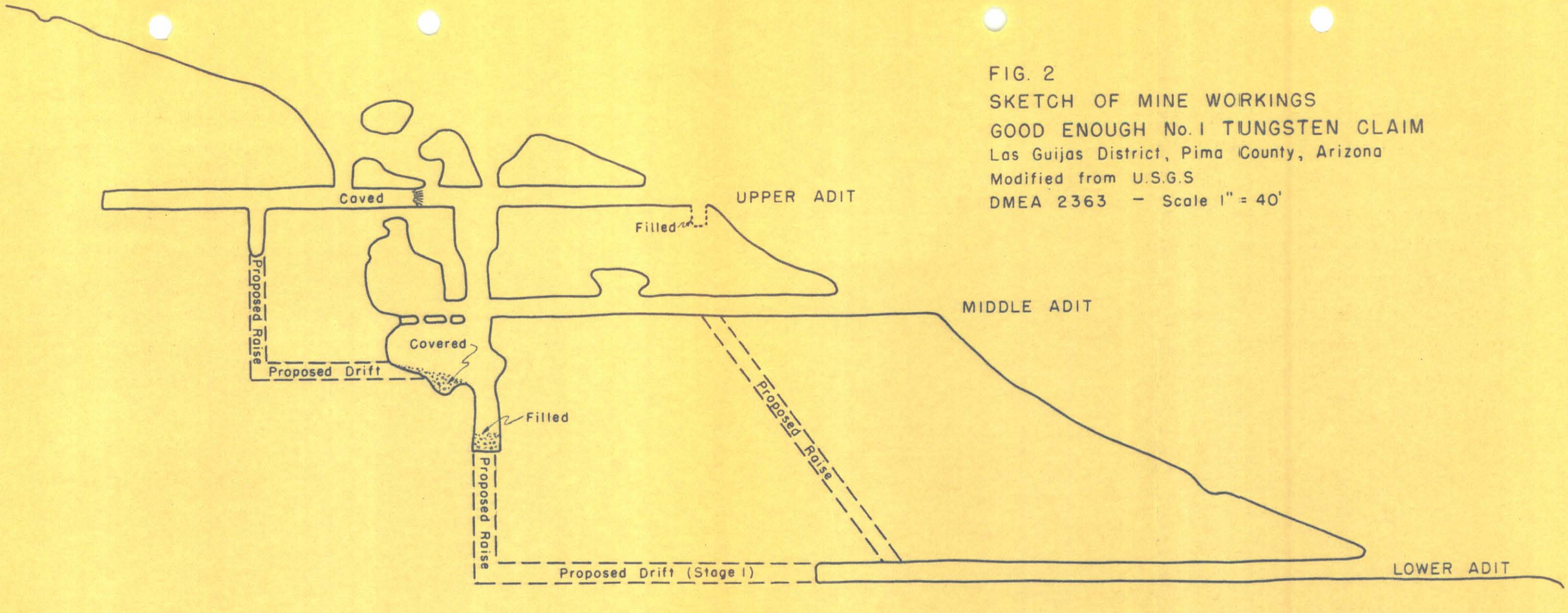
(b) Production from this district (Las Guijas Mining District) from 1915 to 1943 is on the order of 18,000 units of WO3. Since 1943 probably an addition of 8,000 units of WO3.

(c) See Item 2. (b), Form MF-103.

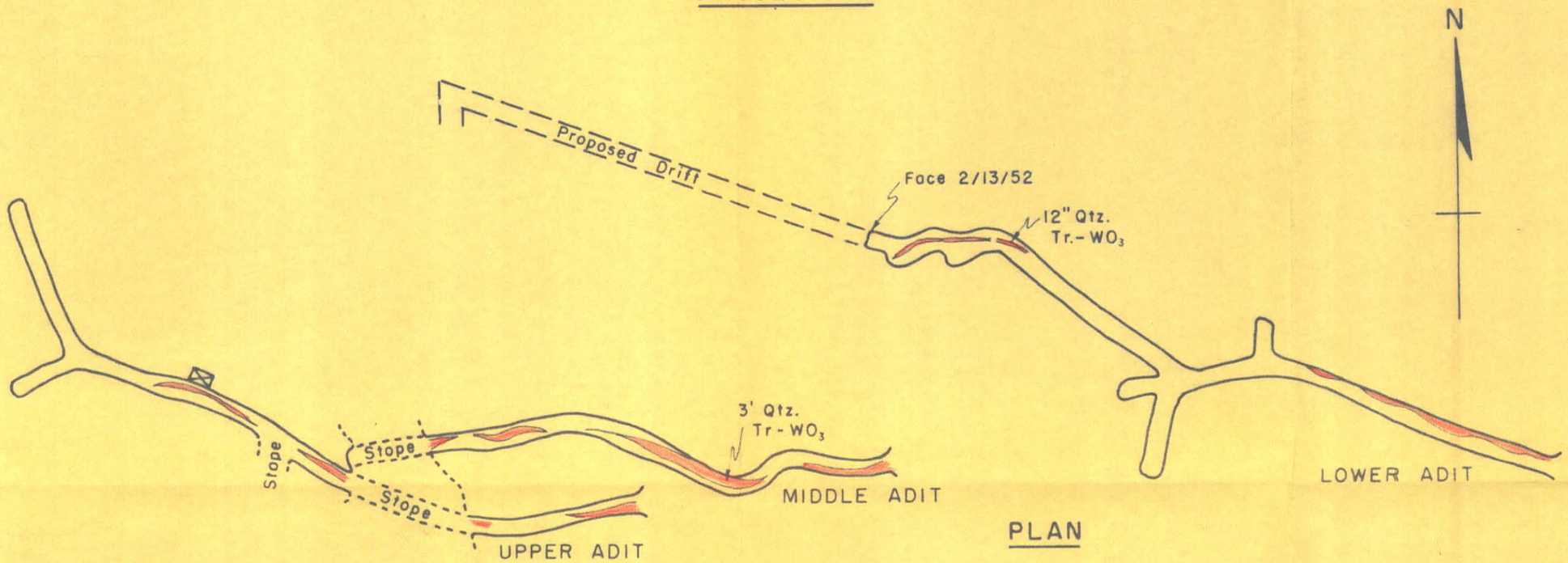
15. One 160 CFM Gardner Denver Compressor
4 H. P. Brigg Stratton Engine for blower
7 H. P. Engine for Water Pump
Estimated rate 78¢ per hour
Gasoline driven motors

17. 2 One room houses
1 Two room house
160 CFM Gardner Denver Compressor
1 Engersol Rand Stoper Machine, complete with steel
1 D 24 Cleveland Drifter, complete with steel
1 Engersol Rand Jack Hammer, complete with steel
150 Gallon Air Receiver
120 Gallon Water Pressure Tank
400 Gallon Rubber Reserve Tank for Water
Miscellaneous equipment

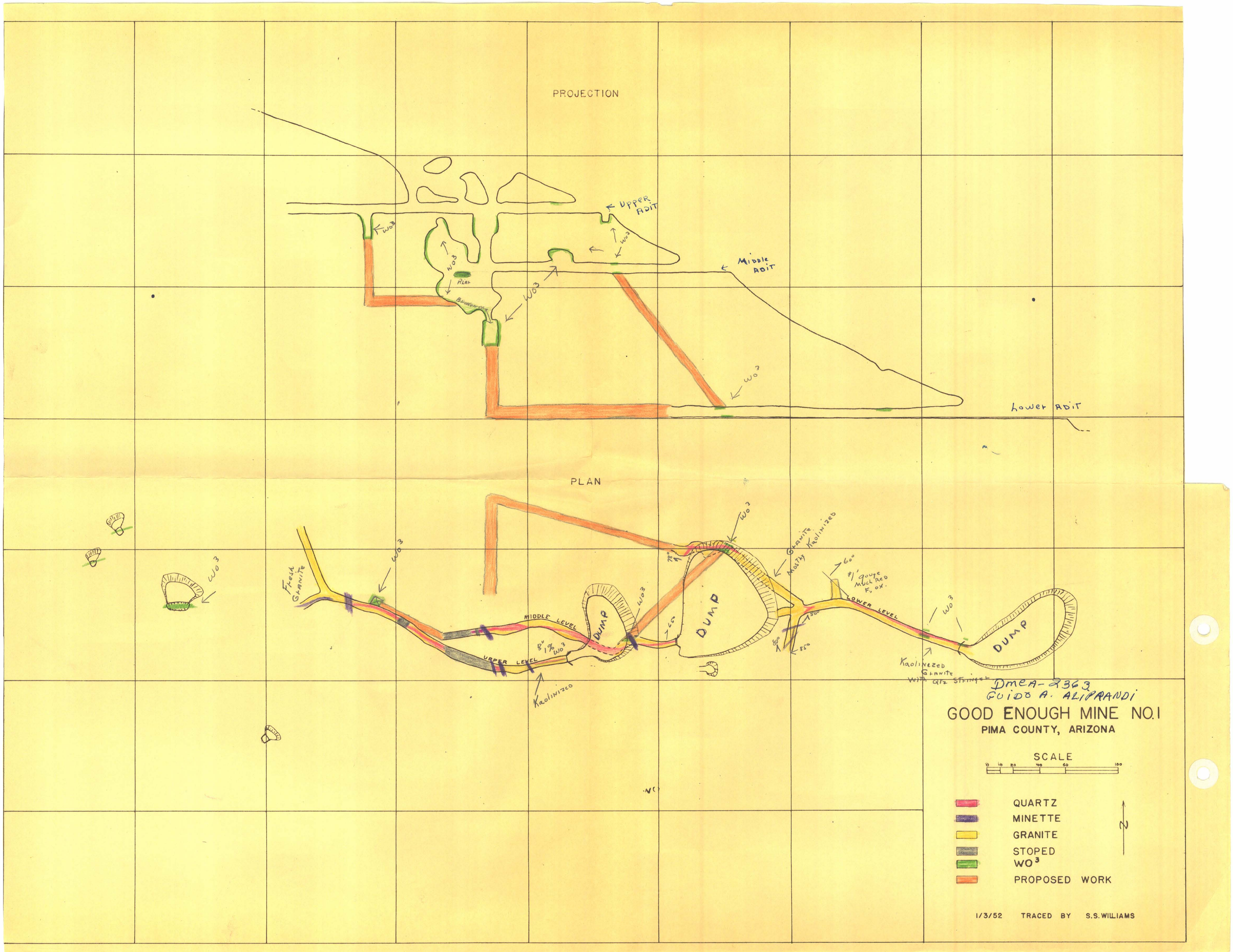
FIG. 2
SKETCH OF MINE WORKINGS
GOOD ENOUGH No. 1 TUNGSTEN CLAIM
Las Guijas District, Pima County, Arizona
Modified from U.S.G.S
DMEA 2363 — Scale 1" = 40'




PROJECTION




PLAN


PROJECTION
Upper Adit
Middle Adit
Lower Adit
WO3
Plan
Brewer Ck.
PLAN
Fresh Granite
Middle Level
Upper Level
8" 1% WO3
Kaolinized
Dump
Granite Kaolinized
Mostly
#1 Gouge Much Red Fe. ox.
Lower Level
Kaolinized Granite with Qtz Stringers
DMEA-2363
GUIDO A. ALIPRANDI
GOOD ENOUGH MINE NO.1
PIMA COUNTY, ARIZONA
SCALE
QUARTZ
MINETTE
GRANITE
STOPED
WO3
PROPOSED WORK
N
1/3/52 TRACED BY S.S. WILLIAMS