DMA Form 1

DEFENSE MINERALS ADMINISTRATION
Control Slip

CONTROLLED DOCUMENT

DMA Docket No. 2023

DO NOT DETACH THIS SLIP

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This document has been recorded as

EXPLORATION LOAN

Any action taken to change the type of request for assistance must be promptly reported to the Reports and Records Branch. Use DMA Form 2 for submitting these reports.

Routing Slip
CODE 350 365

To:	Lead-Zinc Br.	Date	8-30-51
To:	Coord Committee	Date	9-11-51
To:	R & R	Date	SEP 14 1951
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DO NOT DETACH

CONTROLLED DOCUMENT

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

224 New Customhouse
Denver 2, Colorado

June 23, 1952

Memorandum

To: Acting Administrator, Defense Minerals Exploration Administration
Attention: 210

From: Field Team, Region IV

Subject: Final Report, DMA Docket 2023 (Lead-Copper), Ferrick & Pinello, No Name Mine, Saguache County, Colorado

Enclosed are four copies of the final report on DMA-2023.

The letter of denial was sent to the applicant November 2, 1951.

W. H. King

W. H. King

A. H. Koschmann

A. H. Koschmann

Enclosure

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUN 30 1951

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINSTRATION

224 New Customhouse
Denver 2, Colorado

C O P Y

November 2, 1951

Messrs. M. L. Ferrick
and Tom Pinello
5 Winfield
Colorado Springs, Colorado

Re: DMA Docket 2023

Gentlemen:

Your application for a loan to explore the No Name Copper Mine has been reviewed by the Defense Minerals Administration. We have a report of a field examination made on your property to help us in judging your application.

On the basis of the report, we must conclude that the chances of finding any significant new tonnage of copper ore by the exploration you propose are not favorable. The veins are narrow, past production has been small, and the actual present reserves are negligable. Under these circumstances, an expenditure of Government funds for the exploration you proposed is unwarranted. We regret, therefore, that your application must be denied.

We wish to thank you for bringing the property to our attention.

Very truly yours,

Paul T. Allsman for
J. H. East, Jr.
Executive Officer
DMA Field Team, Region IV

cc: John M. Smith, Acting Chief
Administrative Management Division

Mining Division
Region IV

October 30, 1951

Memorandum

To: DMA Field Team, Region IV

From: Chief, Mining Division, Region IV

Subject: Final Report, DMA Docket 2023, M. L. Ferrick and Tom Pizzulla, applicants, No Name Lead Copper Mine, Slate Mining District, Saguache County, Colorado.

The application of the subject docket was for an exploration loan of $3,500.00.

At the No Name Mine, galena sphalerite and chalcopyrite, with included gold and silver values occur in a two-inch vein.

The total production during the period 1943-47 was 44 tons of ore with an average of 0.27 ounces gold and 18 ounces silver per ton, 44.2 percent lead and 3.0 percent copper. Measurable, inferred and indicated reserves are only 41 tons of similar grade.

Due to the small reserves, the examining team recommends that we deny the loan, with which we concur.

Paul T. Allmann

Paul T. Allmann

Reviewed by
DMEA OPERATING COMMITTEE
7-7-52
(date)

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUN 30 1951

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Building 20
Denver Federal Center
October 25, 1951

Mining Division
Date Rec'd.
OCT 26 1951
BUREAU OF MINES
Denver, Colorado

Memorandum

To: Chief, Mining Division, Region IV

From: Chief, Colorado Branch, Mining Division

Subject: DMA 2023, No Name Lead Mine, Saguache County, Colorado

Please find enclosed the original and seven copies of the "Summary, Conclusions, and Recommendations", by C. S. Robinson and C. M. Harrer, and the original and seven copies of Harrer's engineering report on the subject docket.

Obviously, 60 tons of measured, indicated, and inferred reserves, even though high grade, do not warrant consideration for a participating exploration loan, especially with mineralization confined to widths of 2 to 8 inches in discontinuous zones in the vein.

I concur with Harrer's recommendation that the loan be denied.

The "Review" and application as received from your office are also enclosed.

W. M. Traver, Jr.
W. M. Traver, Jr.

enclosures

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

October 22, 1951

Memorandum

To: DMA Field Team, Region IV

From: Ogden Tweto

Subject: DMA Docket 2023, No Name Lead Mine, Saguache County, Colorado

Attached are 8 copies of a geologic report on subject docket by C. S. Robinson of the U. S. Geological Survey. The No Name mine is on a small sulfide vein that shows no promise of widening appreciably along either strike or dip. Past production from the mine has been only 64 tons, and the reserves are negligible.

Mr. Robinson recommends that the application for an exploration loan of $18,300 be denied. I concur.

Ogden Tweto

Ogden Tweto, Alternate
Supervising Geologist
Colorado-Wyoming

Attachments (8)

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

DEFENSE MINERALS ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION IV

DMA-2023, No Name Lead Mine, Blake Mining District

Saguache County, Colorado

Lead

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

C. M. Harrer, Mining Engineer
Bureau of Mines

October 25, 1951

NO NAME LEAD MINE
BLAKE MINING DISTRICT
SAGUACHE COUNTY, COLORADO

Summary, Conclusions, and Recommendations

By C. S. Robinson
Geologist
U. S. Geological Survey

and

C. M. Harrer
Mining Engineer
Bureau of Mines

NO NAME LEAD MINE
BLAKE MINING DISTRICT
SAGUACHE COUNTY, COLORADO

SUMMARY, CONCLUSIONS, AND RECOMMENDATIONS

By C. S. Robinson and C. M. Harrer

The unpatented No Name No. 1 and 2 and Mountain Lion claims are in the Sangre de Cristo Range, Blake Mining District, Saguache County, Colo.

Galena, sphalerite, chalcopyrite, pyrite, gold, and silver occur discontinuously in very narrow veins between granite and schist walls. There is no evidence that would indicate that the vein would widen along its strike or dip.

Past production has been only 64 tons assaying 0.27 ounce of gold and 10 ounces of silver per ton, 46.2 percent lead, and 3 percent copper. Any ore reserves developed along this vein would be meager and would not justify the proposed exploration.

It is recommended that this request for an exploration loan of $15,700.00 and the amended estimate of $18,300.00 on the No Name Lead mine be denied.

NO NAME LEAD MINE

SAGUACHE COUNTY, COLORADO

DMA DOCKET 2023

by C. S. Robinson, Geologist
U. S. Geological Survey

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NO NAME LEAD MINE
SAGUACHE COUNTY, COLORADO

INTRODUCTION

The No Name Lead mine in Saguache County, Colorado, was visited on October 5, 1951, by C. M. Harrer of the U. S. Bureau of Mines and C. S. Robinson of the U. S. Geological Survey. Mr. M. L. Ferrick, partner in the mine, was met at the mine.

The No Name Lead mine is in Hayden Pass gulch about 6½ miles east of Villa Grove, Colorado. It is reached by going east from Villa Grove about 4 miles on a county road and 1 mile on a wagon track to Oak Springs, then 1½ miles on a horse trail up Hayden Pass gulch. The Hayden Pass trail crosses the Sangre de Cristo mountains in the San Isabel National Forest. The only map available of the area is the National Forest Service map of the San Isabel Forest.

The No Name mine is in the north end of the Blake Mining District, Saguache County, Colorado. There has been very little production reported from this district, and for what has been reported, the values have been primarily in gold.

GEOLOGY

The No Name vein is exposed for about 100 feet in the No Name No. 1 adit. The vein strikes N. 37° W. and dips 25°-45° east. As seen in the adit, the vein consists of from 1 to 8 inches of quartz with from 0 to 4 inches of sulfides. The vein averages about 4 inches wide with less

than 1 inch of sulfides. It is estimated that less than 10 per cent of the vein is sulfides. The main sulfide mineral is galena, and associated with it are minor amounts of sphalerite, pyrite, and chalcopyrite. Locally along the vein the ore has been oxidized and most of the sulfides removed. Ore assayed from the oxidized zones gave good values in gold. The country rock is quartz-hornblende schist and granite. The quartz-hornblende schist is the hangingwall of the vein, and the granite is the footwall. The vein cannot be traced on the surface.

CONCLUSIONS

Before any exploration or development work can be done on the No Name vein, about 1 mile of road through fluvial material and 1½ miles of road through sliderock and bedrock must be built. It is unlikely that a vein averaging 1 inch of sulfide, which can only be followed for 100 feet, would produce enough tonnage of ore to make the building of the road worthwhile, much less to cover the cost of the exploration. In the writer's opinion, this property does not warrant a DMA exploration loan.

NO NAME LEAD MINE
BLAKE MINING DISTRICT
SAGUACHE COUNTY, COLORADO

Engineering Report

By C. M. Harrer
Mining Engineer
Bureau of Mines

NO NAME LEAD MINE
BLAKE MINING DISTRICT
SAGUACHE COUNTY, COLORADO

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1. Location map, No Name lead mine, Blake Mining District, Saguache County, Colo.	2

NO NAME LEAD MINE
BLAKE MINING DISTRICT
SAGUACHE COUNTY, COLORADO

ENGINEERING REPORT

By

C. M. Harrer

INTRODUCTION

Examination of the No Name lead mine on Hayden Pass, Blake Mining District, Saguache County, Colo., was made at the request of M. L. Ferrick, of Villa Grove, and T. Pinello, of Colorado Springs, Colo., in connection with a proposed exploration loan of $15,700.00, under the Defense Production Act of 1950, Defense Minerals Administration Docket 2023, to explore a lead-copper-silver vein on the No Name No. 1 claim by drifting and winzing on ore exposures. The property was examined by the author and C. S. Robinson, of the U. S. Geological Survey, on October 4, 1951. M. L. Ferrick was contacted at the No Name No. 1 mine.

ACKNOWLEDGMENTS

A. D. Cooper, grocer at Villa Grove, kindly acted as guide to the foot of Hayden Pass and directed the examining team to the No Name mine. M. L. Ferrick guided the examiners over the property and discussed its early history. Production statistics were furnished by the Economics Branch of Region IV, Bureau of Mines, Denver, Colo.

LOCATION, TOPOGRAPHY, AND PHYSICAL FEATURES

The property is in sec. 3, T. 46 N., R. 10 W., and secs. 33 and 34, T. 47 N., R. 10 W., Bla~~k~~ Mining District, San Isabel National Forest, Saguache County, Colo. (fig. 1), at altitudes ranging between 8,000 and 9,500 feet above sea level. It is six miles northeast of Villa Grove over a rough road which heads into Hayden Pass in the Sangre de Cristo Mountains. The terrain is flat between Villa Grove and the foot of the Sangre de Cristo Mountains at Oak Springs, 4 3/4 miles distant. From Oak Springs to the No Name No. 1 mine is 1 1/4 miles up Hayden Pass, now impassable to all but animal and foot travel because of encroaching talus. The terrain is very rough and rugged, with large accumulations of talus. There is ample timber for mining purposes and water is available in nearby Hayden Pass Creek. Ore would have to be hauled to Leadville for sale and smelting. Communication, supply, and transportation facilities would originate in the small town of Villa Grove, on U. S. Highway 285. The Rio Grande Western Railroad's broad gauge line passes through Salida and the narrow gauge formerly passing through Villa Grove between Salida and Hooper now terminates at Poncha Springs.

HISTORY AND PRODUCTION

Early history of the deposit is incomplete. Records of the U. S. Bureau of Mines indicate that this group of claims operated during the period 1903-07 as the Mountain Lion M., M., and P. Company with a yearly production of 10 to 28 tons. Total production was 64 tons, averaging 0.27 ounce gold and 10 ounces silver per ton, 46.2 percent lead, and 3.0 percent copper.

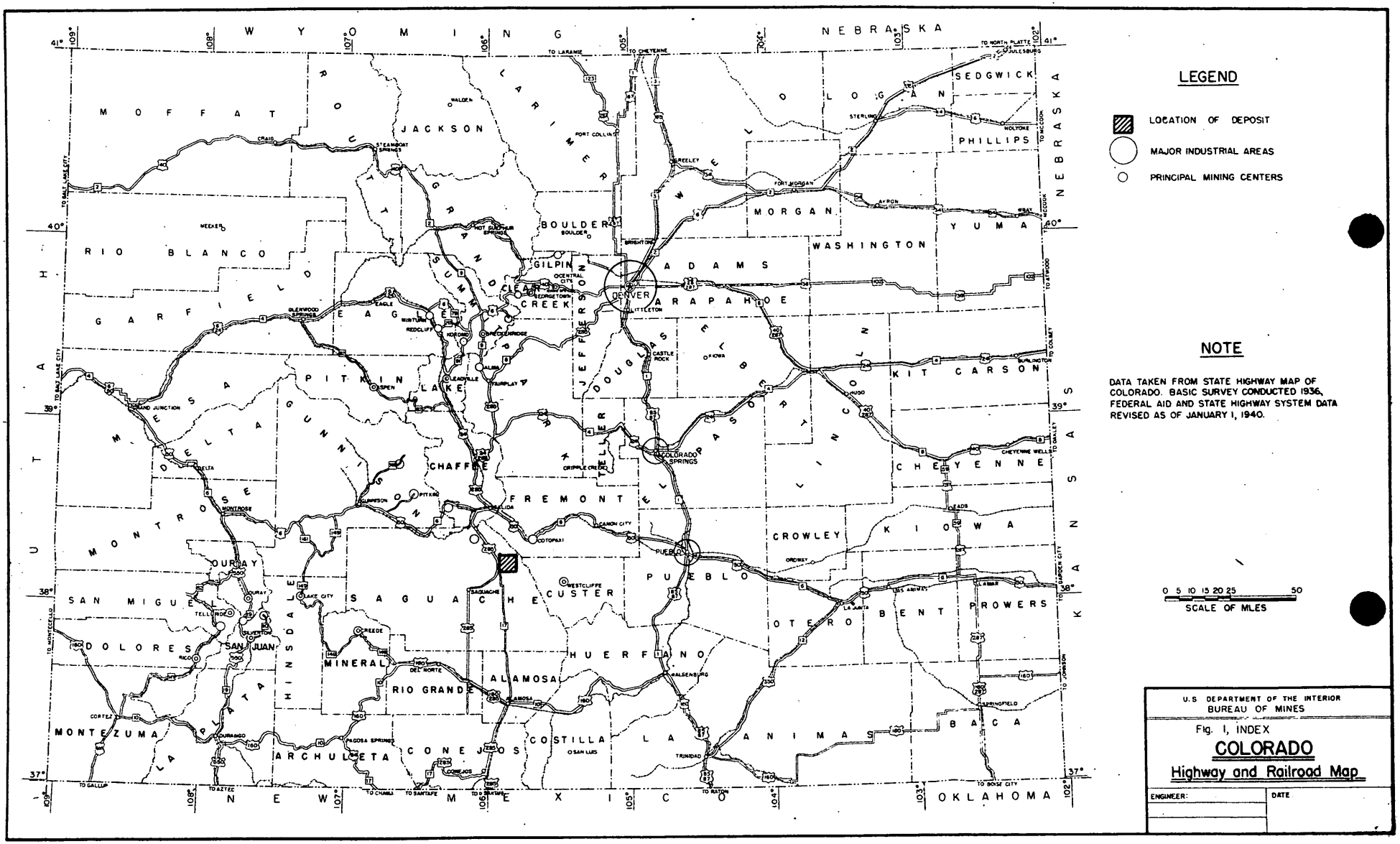

Fig.-1 NO NAME LEAD MINE, BLAKE MINING DISTRICT, SAGUACHE CO., COLO. D.M.A-2023

OWNERSHIP AND EXTENT

M. L. Ferrick, of Villa Grove, and T. Pinello, of Colorado Springs, Colo., applicants, own the three standard unpatented mining claims, No Name Nos. 1 and 2 and the Mountain Lion, situated in the Blake Mining District, Saguache County, Colo.

DESCRIPTION OF THE DEPOSITS

A narrow vein, two to eight inches wide, having one- to three-inch widths of good galena, sphalerite, and chalcopyrite with included gold and silver values in discontinuous zones, lies between hard granite and schist walls, and has been developed for 100 feet along the strike of S. 37° E. on the No Name No. 1 claim. The vein has been mined in two very small open stopes, one above and one below the adit level. Dips vary from 25° to 45° E.

MINABLE ORE RESERVES

The valuable portions of the vein appear fairly uniform in thickness and are not expected to average over two inches in thickness. Vein material would have to be hand cobbed, sacked, and shipped, intermittently.

Reserves and grade of hand-cobbed ore to be expected from this deposit are as follows:

		Ounces/ton		Percent		
Reserves	Tons	Au.	Ag.	Pb.	Zn.	Cu.
Measurable	1	0.27	10.0	46	5.0	3.0
Indicated	10	0.27	10.0	46	5.0	3.0
Inferred	50	0.27	10.0	46	5.0	3.0
Total	61	0.27	10.0	46	5.0	3.0

PRESENT STATUS

The No Name claim No. 1 has been developed by 100 feet of adit along the strike of the vein. It has been developed along the dip by two small open stopes for a length of about 30 feet. The adit was recently cleaned out.

There is no equipment on the property. Various other adits on this claim, the No Name No. 2, and the Mountain Lion were caved and covered by slide rock.

PROJECT PROPOSALS, WITH COSTS

M. L. Ferrick, of Villa Grove, and T. Pinello propose to explore the No Name No. 1 vein with 500 feet of drift and 100 feet of winze at a cost of $15,700.00. This is believed too low. It is estimated that the project will require at least $18,300.00 for completion.

CONCLUSIONS

Past production from this property and neighboring mines has been very small and encouraged only by its gold and silver content. The No Name No. 1 vein already developed by 100 feet of adit and two small stopes is very narrow with discontinuous mineralization, and all indications point towards a continuation of this feature. Ore reserves developed along the vein will be meager and do not justify the proposed further exploration.

RECOMMENDATIONS

It is recommended that this request for an exploration loan of $15,700.00 on the No Name lead mine, docket DMA-2023, be denied.

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

224 New Customhouse
Denver 2, Colorado

June 23, 1952

Memorandum

To: Acting Administrator, Defense Minerals Exploration Administration
Attention: 210

From: Field Team, Region IV

Subject: Final Report, DMA Docket 2023 (Lead-Copper), Ferrick & Pinello, No Name Mine, Saguache County, Colorado

Enclosed are four copies of the final report on DMA-2023.

The letter of denial was sent to the applicant November 2, 1951.

W. H. King
W. H. King

A. H. Koschmann
A. H. Koschmann

Enclosure

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUN 30 1951

Mining Division
Region IV

October 30, 1951

Memorandum

To: DMA Field Team, Region IV

From: Chief, Mining Division, Region IV

Subject: Final Report, DMA Docket 2023, M. L. Ferrick and Tom Pizzella, applicants, No Name Lead Copper Mine, Kiowa Mining District, Saguache County, Colorado.

The application of the subject docket was for an exploration loan of $15,700.00.

At the No Name Mine, galena, sphalerite and chalcopyrite, with included gold and silver values occur in a two-inch vein.

The total production during the period 1903-07 was 44 tons of ore with an average of 0.37 ounces gold and 10 ounces silver per ton, 44.2 percent lead and 3.0 percent copper. Measurable, inferred and indicated reserves are only 62 tons of similar grade.

Due to the small reserves, the examining team recommends that we deny the loan, with which we concur.

Paul T. Allsman

Paul T. Allsman

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUN 30 1951

Reviewed by
DMEA OPERATING COMMITTEE
7-7-52
(date)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Building 20
Denver Federal Center
October 25, 1951

Mining Division
Date Rec'd.
OCT 26 1951
BUREAU OF MINES
Denver, Colorado

Memorandum

To: Chief, Mining Division, Region IV

From: Chief, Colorado Branch, Mining Division

Subject: DMA 2023, No Name Lead Mine, Saguache County, Colorado

Please find enclosed the original and seven copies of the "Summary, Conclusions, and Recommendations", by G. S. Robinson and C. M. Harrer, and the original and seven copies of Harrer's engineering report on the subject docket.

Obviously, 60 tons of measured, indicated, and inferred reserves, even though high grade, do not warrant consideration for a participating exploration loan, especially with mineralization confined to widths of 2 to 8 inches in discontinuous zones in the vein.

I concur with Harrer's recommendation that the loan be denied.

The "Review" and application as received from your office are also enclosed.

W. M. Traver, Jr.
W. M. Traver, Jr.

enclosures

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

October 22, 1951

Memorandum

To: DMA Field Team, Region IV

From: Ogden Tweto

Subject: DMA Docket 2023, No Name Lead Mine, Saguache County, Colorado

Attached are 8 copies of a geologic report on subject docket by C. S. Robinson of the U. S. Geological Survey. The No Name mine is on a small sulfide vein that shows no promise of widening appreciably along either strike or dip. Past production from the mine has been only 64 tons, and the reserves are negligible.

Mr. Robinson recommends that the application for an exploration loan of $18,300 be denied. I concur.

Ogden Tweto

Ogden Tweto, Alternate
Supervising Geologist
Colorado-Wyoming

Attachments (8)

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

DEFENSE MINERALS ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION IV

DMA-2023, No Name Lead Mine, Blake Mining District

Saguache County, Colorado

Lead

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

C. M. Harrer, Mining Engineer
Bureau of Mines

October 25, 1951

NO NAME LEAD MINE
BLAKE MINING DISTRICT
SAGUACHE COUNTY, COLORADO

Summary, Conclusions, and Recommendations

By C. S. Robinson
Geologist
U. S. Geological Survey

and

C. M. Harrer
Mining Engineer
Bureau of Mines

NO NAME LEAD MINE
BLAKE MINING DISTRICT
SAGUACHE COUNTY, COLORADO

SUMMARY, CONCLUSIONS, AND RECOMMENDATIONS

By C. S. Robinson and C. M. Harrer

The unpatented No Name No. 1 and 2 and Mountain Lion claims are in the Sangre de Cristo Range, Blake Mining District, Saguache County, Colo.

Galena, sphalerite, chalcopyrite, pyrite, gold, and silver occur discontinuously in very narrow veins between granite and schist walls. There is no evidence that would indicate that the vein would widen along its strike or dip.

Past production has been only 64 tons assaying 0.27 ounce of gold and 10 ounces of silver per ton, 46.2 percent lead, and 3 percent copper. Any ore reserves developed along this vein would be meager and would not justify the proposed exploration.

It is recommended that this request for an exploration loan of $15,700.00 and the amended estimate of $18,300.00 on the No Name Lead mine be denied.

NO NAME LEAD MINE

SAGUACHE COUNTY, COLORADO

DMA DOCKET 2023

by C. S. Robinson, Geologist
U. S. Geological Survey

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NO NAME LEAD MINE
SAGUACHE COUNTY, COLORADO

INTRODUCTION

The No Name Lead mine in Saguache County, Colorado, was visited on October 5, 1951, by C. M. Harrer of the U. S. Bureau of Mines and C. S. Robinson of the U. S. Geological Survey. Mr. M. L. Ferrick, partner in the mine, was met at the mine.

The No Name Lead mine is in Hayden Pass gulch about 6½ miles east of Villa Grove, Colorado. It is reached by going east from Villa Grove about 4 miles on a county road and 1 mile on a wagon track to Oak Springs, then 1½ miles on a horse trail up Hayden Pass gulch. The Hayden Pass trail crosses the Sangre de Cristo mountains in the San Isabel National Forest. The only map available of the area is the National Forest Service map of the San Isabel Forest.

The No Name mine is in the north end of the Blake Mining District, Saguache County, Colorado. There has been very little production reported from this district, and for what has been reported, the values have been primarily in gold.

GEOLOGY

The No Name vein is exposed for about 100 feet in the No Name No. 1 adit. The vein strikes N. 37° W. and dips 25°-45° east. As seen in the adit, the vein consists of from 1 to 8 inches of quartz with from 0 to 4 inches of sulfides. The vein averages about 4 inches wide with less

than 1 inch of sulfides. It is estimated that less than 10 per cent of the vein is sulfides. The main sulfide mineral is galena, and associated with it are minor amounts of sphalerite, pyrite, and chalcopyrite. Locally along the vein the ore has been oxidized and most of the sulfides removed. Ore assayed from the oxidized zones gave good values in gold. The country rock is quartz-hornblende schist and granite. The quartz-hornblende schist is the hangingwall of the vein, and the granite is the footwall. The vein cannot be traced on the surface.

CONCLUSIONS

Before any exploration or development work can be done on the No Name vein, about 1 mile of road through fluvial material and 1¼ miles of road through sliderock and bedrock must be built. It is unlikely that a vein averaging 1 inch of sulfide, which can only be followed for 100 feet, would produce enough tonnage of ore to make the building of the road worthwhile, much less to cover the cost of the exploration. In the writer's opinion, this property does not warrant a DMA exploration loan.

NO NAME LEAD MINE
BLAKE MINING DISTRICT
SAGUACHE COUNTY, COLORADO

Engineering Report

By C. M. Harrer
Mining Engineer
Bureau of Mines

NO NAME LEAD MINE
BLAKE MINING DISTRICT
SAGUACHE COUNTY, COLORADO

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ILLUSTRATIONS

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1. Location map, No Name lead mine, Blake Mining District, Saguache County, Colo.	2

NO NAME LEAD MINE
BLAKE MINING DISTRICT
SAGUACHE COUNTY, COLORADO

ENGINEERING REPORT

By

C. M. Harrer

INTRODUCTION

Examination of the No Name lead mine on Hayden Pass, Blake Mining District, Saguache County, Colo., was made at the request of M. L. Ferrick, of Villa Grove, and T. Pinello, of Colorado Springs, Colo., in connection with a proposed exploration lean of $15,700.00, under the Defense Production Act of 1950, Defense Minerals Administration Docket 2023, to explore a lead-copper-silver vein on the No Name No. 1 claim by drifting and winzing on ore exposures. The property was examined by the author and C. S. Robinson, of the U. S. Geological Survey, on October 4, 1951. M. L. Ferrick was contacted at the No Name No. 1 mine.

ACKNOWLEDGMENTS

A. D. Cooper, grocer at Villa Grove, kindly acted as guide to the foot of Hayden Pass and directed the examining team to the No Name mine. M. L. Ferrick guided the examiners over the property and discussed its early history. Production statistics were furnished by the Economics Branch of Region IV, Bureau of Mines, Denver, Colo.

LOCATION, TOPOGRAPHY, AND PHYSICAL FEATURES

The property is in sec. 3, T. 46 N., R. 10 W., and secs. 33 and 34, T. 47 N., R. 10 W., Blake Mining District, San Isabel National Forest, Saguache County, Colo. (fig. 1), at altitudes ranging between 8,000 and 9,500 feet above sea level. It is six miles northeast of Villa Grove over a rough road which heads into Hayden Pass in the Sangre de Cristo Mountains. The terrain is flat between Villa Grove and the foot of the Sangre de Cristo Mountains at Oak Springs, 4 3/4 miles distant. From Oak Springs to the No Name No. 1 mine is 1 1/4 miles up Hayden Pass, now impassable to all but animal and foot travel because of encroaching talus. The terrain is very rough and rugged, with large accumulations of talus. There is ample timber for mining purposes and water is available in nearby Hayden Pass Creek. Ore would have to be hauled to Leadville for sale and smelting. Communication, supply, and transportation facilities would originate in the small town of Villa Grove, on U. S. Highway 285. The Rio Grande Western Railroad's broad gauge line passes through Salida and the narrow gauge formerly passing through Villa Grove between Salida and Hooper now terminates at Poncha Springs.

HISTORY AND PRODUCTION

Early history of the deposit is incomplete. Records of the U. S. Bureau of Mines indicate that this group of claims operated during the period 1903-07 as the Mountain Lion M., M., and P. Company with a yearly production of 10 to 28 tons. Total production was 64 tons, averaging 0.27 ounce gold and 10 ounces silver per ton, 46.2 percent lead, and 3.0 percent copper.

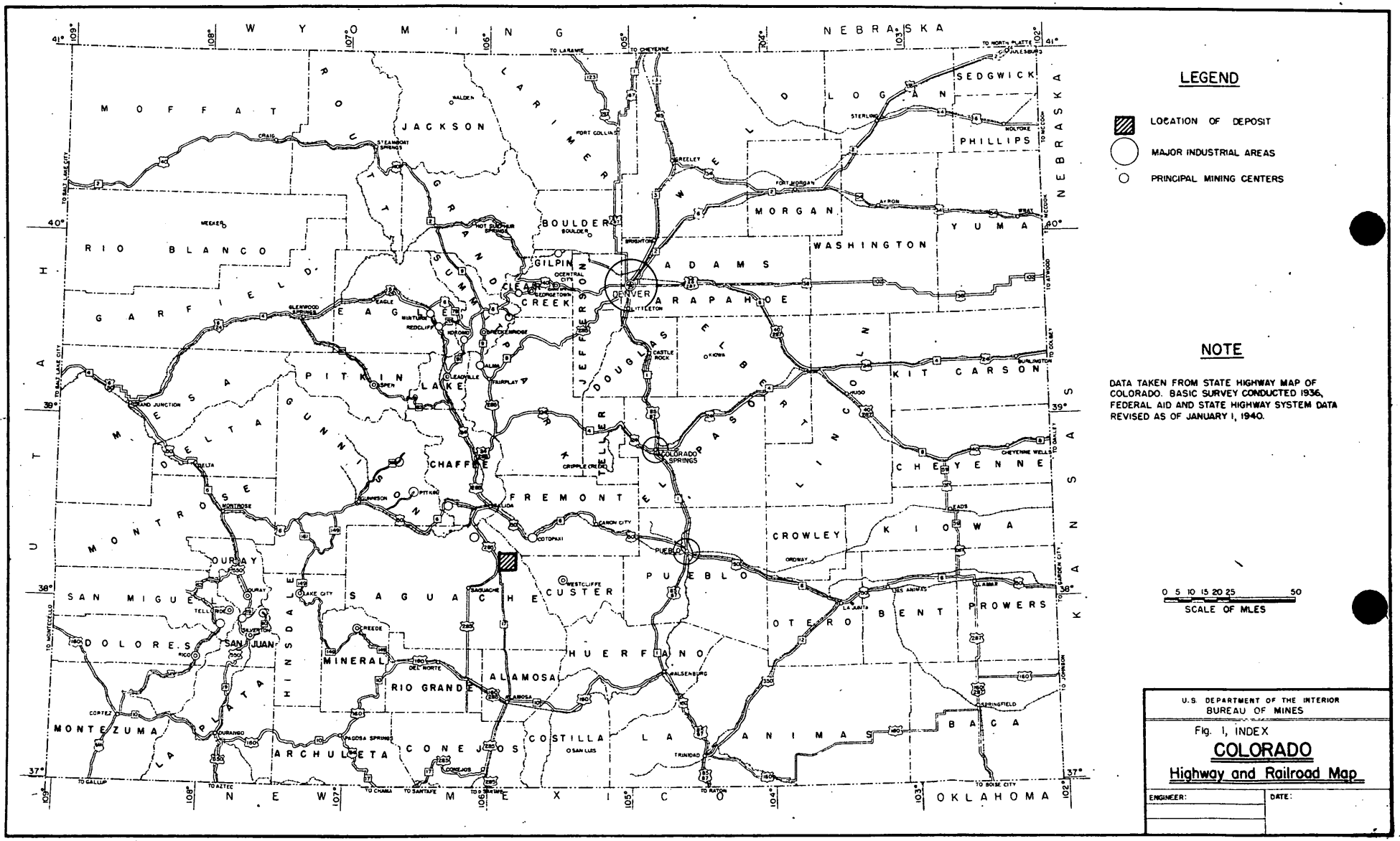

Fig.-1 NO NAME LEAD MINE, BLAKE MINING DISTRICT, SAGUACHE CO., COLO. D.M.A-2023

OWNERSHIP AND EXTENT

M. L. Ferrick, of Villa Grove, and T. Pinello, of Colorado Springs, Colo., applicants, own the three standard unpatented mining claims, No Name Nos. 1 and 2 and the Mountain Lion, situated in the Blake Mining District, Saguache County, Colo.

DESCRIPTION OF THE DEPOSITS

A narrow vein, two to eight inches wide, having one- to three-inch widths of good galena, sphalerite, and chalcopyrite with included gold and silver values in discontinuous zones, lies between hard granite and schist walls, and has been developed for 100 feet along the strike of S. 37° E. on the No Name No. 1 claim. The vein has been mined in two very small open stopes, one above and one below the adit level. Dips vary from 25° to 45° E.

MINABLE ORE RESERVES

The valuable portions of the vein appear fairly uniform in thickness and are not expected to average over two inches in thickness. Vein material would have to be hand cobbed, sacked, and shipped, intermittently.

Reserves and grade of hand-cobbed ore to be expected from this deposit are as follows:

Reserves	Tons	Ounces/ton		Percent		
		Au.	Ag.	Pb.	Zn.	Cu.
Measurable	1	0.27	10.0	46	5.0	3.0
Indicated	10	0.27	10.0	46	5.0	3.0
Inferred	50	0.27	10.0	46	5.0	3.0
Total	61	0.27	10.0	46	5.0	3.0

PRESENT STATUS

The No Name claim No. 1 has been developed by 100 feet of adit along the strike of the vein. It has been developed along the dip by two small open stopes for a length of about 30 feet. The adit was recently cleaned out.

There is no equipment on the property. Various other adits on this claim, the No Name No. 2, and the Mountain Lion were caved and covered by slide rock.

PROJECT PROPOSALS, WITH COSTS

M. L. Ferrick, of Villa Grove, and T. Pinello propose to explore the No Name No. 1 vein with 500 feet of drift and 100 feet of winze at a cost of $15,700.00. This is believed too low. It is estimated that the project will require at least $18,300.00 for completion.

CONCLUSIONS

Past production from this property and neighbering mines has been very small and encouraged only by its gold and silver content. The No Name No. 1 vein already developed by 100 feet of adit and two small stopes is very narrow with discontinuous mineralization, and all indications point towards a continuation of this feature. Ore reserves developed along the vein will be meager and do not justify the proposed further exploration.

RECOMMENDATIONS

It is recommended that this request for an exploration loan of $15,700.00 on the No Name lead mine, docket DMA-2023, be denied.

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

BL

224 New Customhouse
Denver 2, Colorado

November 2, 1951

Messrs. M. L. Ferrick
and Tom Pinello
5 Winfield
Colorado Springs, Colorado

Re: DMA Docket 2023

Gentlemen:

Your application for a loan to explore the No Name Copper Mine has been reviewed by the Defense Minerals Administration. We have a report of a field examination made on your property to help us in judging your application.

On the basis of the report, we must conclude that the chances of finding any significant new tonnage of copper ore by the exploration you propose are not favorable. The veins are narrow, past production has been small, and the actual present reserves are negligable. Under these circumstances, an expenditure of Government funds for the exploration you proposed is unwarranted. We regret, therefore, that your application must be denied.

We wish to thank you for bringing the property to our attention.

Very truly yours,

Paul T. Allaman

Paul T. Allaman for
J. H. East, Jr.
Executive Officer
DMA Field Team, Region IV

cc: John M. Smith, Acting Chief
Administrative Management Division

FILE COPY
SURNAME:

350

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

Lyons (EJL)
McKnight
Billingsley
Bishop
Hayes
Moon

SEP 14 1951

Re: DMA-2023

Q.E.C.

Messrs. M. L. Ferrick and
Tom Pinello
5 Winfield
Colorado Springs, Colorado

Gentlemen:

The Defense Minerals Administration has reviewed your application for a loan to explore your claim in Saguache County, Colorado and has referred it to Mr. J. H. East, jr. Executive Officer, DMA Field Team, 224 New Customhouse, Denver 2, Colorado for further information and advice.

Very truly yours,

SIGNED BY 9/14

Tom Lyon, Director
Supply Division

EJLyons:emp
G 9-10-51
Copies to: J. H. East, Jr. Region Iv (2)
Chief, Lead-Zinc Br.
E. T. McKnight 4204 GSA
O. Bishop
Directors r. files 4214 GSA
Br. r. files 4214 GSA
Administrators r files
DMA docket files

McKnight
Gilbirge
Bishop

SEP 14 1951

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

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

Dear Sir:

We attach "Review of Application for Exploration Assistance" on:

Docket No. 2023

Commodity Lead-copper

Applicant M. L. Ferrick and Tom Pinello
5 Winfield, Colorado Springs, Colorado

Please expedite the consideration of this application with particular reference to the points raised in the attached "Review."

Very truly yours,

Chairman
Coordinating Committee

For Bureau of Mines

For Geological Survey

6/5/51

Defense Minerals Administration

Review of Application for Exploration Assistance

Docket No. DMA-2023

Commodity Lead-copper

Total Amount $15,700

Govt. Participation 50% ($7,850)

1. Name and Address of Applicant M. L. Perrick and Tom Pinello

5 Winfield, Colorado Springs, Colorado

2. Location of Property NW 1/4, NW 1/4, NW 1/4, Sec. 3, T. 46 N., R. 10 W., SE 1/4, SE 1/4, Sec. 33 and SW 1/4, SW 1/4, sec. 34, T. 47 N., R. 10 W., Saguache County, Colorado

3. Mineral or metal Lead, copper, gold, silver Is it listed in Section 9 of MO-5? Yes
If not, application will be rejected.

4. Geologic probability of discovery—based on data in application (question #16, 17, 18, 20 and 22)*

Mines or Survey reports, etc., do you rate chances:

a) Good

b) Poor

c) None

d) Don't know—needs field examination X

e) Is there an alternative and favorable project? Don't know
(If so, attach an explanation)

5. Is the applicant's right to the property clearly stated? Yes
(question 5, 6, 7)*

6. If applicant is a lessee, is a copy of the lease attached? Does not apply

Does the lease have sufficient time to run to cover a future productive period? Does not apply

*question numbers are those of MF-103

7. Are subordination agreements necessary? No

a) MF-201? _____

b) MF-202 _____

8. From the data presented, does the proposed project appear feasible from the point of view of:

a) Available manpower Yes

b) Equipment and supplies Don't know
(Question 14 plus general knowledge of availability)*

c) Accessibility (question 12)* Questionable

d) Water (question 13)* Yes

e) Power (question 13)* Yes

Is a field check needed on any of these points? Yes

9. Does the experience of the applicant appear to be adequate to assure that he can properly conduct the proposed project? (question 4)* Don't know

Is a field check needed on this point? Yes

10. Exhibit A. (questions 21 and 22)*

a) Is the project adequately described? Yes

If not, are there sufficient data given so that you can describe the project? See Exhibit A attached If so, attach a draft.

b) Is there an adequate map or sketch of the proposed work? No should be obtained from applicant

c) Is the proposed work "exploration" under the definition of Section 8, MO-5? Yes

If not, what part of it is? _____

EXHIBIT "A"

Exploration project

The applicant's wish to explore a 6-inch vein which is exposed in a tunnel over a length of 90 ft. Two chip samples from the vein assayed 33.68% Pb and 0.98% Cu and 72.40% Pb and 2.13% Cu, respectively. The applicant proposes to extend the tunnel 500 ft. and sink a 100 ft. winze. Estimated expenditures are as follows:

Bunk House and shop at $500 each.....	$ 1,000
Equipment purchases.....	3,300
500 ft. of tunnel and 100 ft. of winze at $19 per ft.....	11,400
	$15,700

The applicant's contribution will be in the form of their labor.

Fixtures and improvements

Bunk House.....	$ 500
Shop.....	500
	1,000

Operating equipment

Equipment purchase:	
Mine rail.....	250
Mine car.....	50
210 c.f.m. compressor.....	3,000
	$ 3,300
Equipment rental - Hoist.....	650

Labor and Supervision

2 Miners at $12 per day for 225 days....	5,400
Supervision.....	2,700
	$ 8,100

Rehabilitation and repairs - none

Is this part a worthwhile exploration project?_____

d) Are the cost estimates detailed? Yes

Can they be summarized, as on page 2 of Procedural Instruction 5-A, from the available data? Yes If so, attach a draft. See exhibit A attached

e) Are the cost estimates reasonable? In part

f) Should more information be requested from applicant? Yes

g) Is a field examination necessary to complete Exhibit A? Yes

11. Exhibit B (question 23-d)*

a) Is it applicable? Yes

b) If so, are sufficient data furnished? Yes If so, attach a draft.

c) Is a field check needed? Yes, check possible need for road

12. Exhibit C (question 23-e, f and g)*

a) Is it applicable? Yes

b) Sufficient data? Yes If so, attach a draft. See Exhibit A attached

c) Are rents and charges reasonable? Apparently

d) Is a field check needed? Yes

13. Exhibit D (question 23-a, b)*

a) Are there sufficient data? Yes

b) Is the schedule adequate for the work proposed? Yes

c) Is the schedule excessive for the work proposed? No

d) Are the proposed wages and salaries reasonable? No

e) Is a field check needed? Yes, on supervision

14. Exhibit E (question 23-c)*

a) Is it applicable? No

b) Sufficient data?

c) Reasonable?

d) Field check needed? No

15. In your judgment, can the proposed work be done in the proposed time? Yes

(All exploration must be completed within two years)

16. If field examination is not needed, attach your recommendation.

17. If field examination is needed, do you have any special instructions for the field team not indicated by your answers to the foregoing question? It is not stated by whom the supervision is to be done, whether by the applicants or by a third person. It will have to be determined whether the supervision should be allowed as part of the applicants' contribution. If not, the costs will have to be revised, if possible, so that the applicants' labor will be sufficient to meet their share of the cost or part of their contribution will have to be made in cash. Costs per ft. of tunnel and per ft. of winze should be estimated separately. ~~The sample list referred to by the applicant was not attached~~ to the docket when received.

Reviewed by: E. J. Lyons, GS

Returned herewith is:

1 copy Form MF-103

Date 9-10-51

97692

Mr. M. L. Ferrick
5 Winfield
Colorado Springs, Colorado

Subject: DMA-2023
Re: Exploration Loan
Mining Claim

My dear Mr. Ferrick:

This will acknowledge receipt of your application dated August 8, 1951 for a loan under the Defense Production Act of 1950.

Your application was assigned Docket Number DMA-2023 and referred to the Lead-Zinc Branch.

Kindly refer to DMA-2023 in any future correspondence relating to your application.

Sincerely yours,

Robert E. Adams

Robert E. Adams, Chief
Reports and Records Unit

2463

AUG 31 1951

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

REGION IV

OFFICE OF
REGIONAL DIRECTOR

224 NEW CUSTOMHOUSE
DENVER 2, COLORADO

August 27, 1951

DMA-2075

Memorandum

To: Executive Secretary, Defense Minerals Administration

From: Executive Officer, DMA Field Team, Region IV

Subject: Form MF-103

Enclosed herewith is application for exploration aid, Form MF-103, for the following:

M. L. Ferrick and Tom Pinello
5 Winfield
Colorado Springs, Colorado

J. H. East, Jr.

Enclosure

DEFENSE MINERALS
ADMINISTRATION
WASHINGTON, D.C.
AUG 30 9 00 AM '51

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

OFFICE OF
REGIONAL DIRECTOR

REGION IV

224 NEW CUSTOMHOUSE
DENVER 2, COLORADO

August 27, 1951

Memorandum

To: Executive Secretary, Defense Minerals Administration

From: Executive Officer, DMA Field Team, Region IV

Subject: Form MF-103

Enclosed herewith is application for exploration aid, Form MF-103, for the following:

M. L. Ferrick and Tom Pinello
5 Winfield
Colorado Springs, Colorado

DM A-2023

J. H. East, Jr.

Enclosure

ld

cc: DMA

ANSWER to Question 4.

H. L. Ferrick over 50 years in mining.

Tom Pinello - 15 years mining experience
12 years general contracting experience.

Form MF-103
(April 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Budget Bureau No. 42-R035.
Approval expires 6-30-51.

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

DO NOT FILL IN THIS BLOCK

Docket No. DMA 2023

Date received 8-30-51

Participation

Name and address of applicant:
H. L. Forrick
5 Winfield
Colorado Springs, Colorado
Lon Pinollo
5 Winfield
Colorado Springs, Colorado

Date August 20, 1951

DEFENSE MINERALS ADMINISTRATION WASHINGTON, D.C. AUG 30 9 00 AM '51

FILL IN THIS BLOCK

Date of application August 10, 1951

Estimated cost 15,700.00

Mineral or metal Primary, Lead. Secondary, Copper, Gold, Silver

Percentage of Government participation 40.6%

Location of mine Bloke Mining District, Saguache County, Colorado

Date of filing MF-100

DMA Docket Number, if available 2023

INSTRUCTIONS

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

THE APPLICANT

*1. Is applicant an individual, partnership, or corporation? Partnership
*2. If a partnership, state names and addresses of partners. H.L.Forrick-Lon Pinollo, 5 Winfield Colo.Springs
*3. If a corporation, state names and addresses of officers, directors, and five largest stockholders. not applicable
*4. Describe the mining and general business experience of (a) the applicant, and (b) the person or persons who will manage the project. H.L.Forrick, over 30 years experience, 12 yrs. Lon Pinollo, 15 yrs. mining exp. Gen. contracting experience
*5. Are you the owner or the lessee of the property? Owners
6. If owner, state what claims, liens, or encumbrances, if any, are against the property. None
7. If lessee, attach a copy of the lease and state if it is in good standing. Not applicable

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

8. Furnish current financial statement, showing assets and liabilities, and a profit and loss statement. Not applicable
9. How much money is applicant prepared to invest in proposed project? Is it sufficient to pay your part of the cost of the project as detailed in question 23 of this application form, in accordance with the regulations on Government participation (Section 9 of Mineral Order 5)? See question No. 23

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

16—64067-1

THE PROPERTY

10. (*a*) Give a description of the real property that will be in any way involved in the exploration project, including any existing mine or operating property.
    (*b*) Give the legal description of the exact parcel, plot, or area upon which the exploration is to be conducted.

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

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

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

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

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

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

*16. History:
    (*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for any past suspensions of operations.
    (*b*) State briefly the known history and production of adjoining and neighboring properties.
    (*c*) Furnish any available (private) reports that may apply to this application, including results of mine examinations, recommended exploration and development, and metallurgical investigations.

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

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

*18. Ore or mineral reserves: (If property is or has been operating.)
    (*a*) Describe the ore or mineral deposits briefly.
    (*b*) Submit available maps and assay data.
    (*c*) Give estimated tonnage and grade of each class of ore reserves.

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

THE EXPLORATION

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

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

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

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

THE REQUIREMENTS AND COSTS

23. Tabulate in the form of an itemized statement with a sum for each item the estimated requirements and costs of the project so that the total will give the estimated cost of the project in which the Government will participate, as follows:
    (*a*) Labor, by numbers and classes (miners, muckers, millmen, etc.), with wages of each.
    (*b*) Supervisors, by numbers and positions, with salaries of each.
    (*c*) Cost of necessary repairs to existing facilities, structures, and buildings.
    (*d*) Cost of necessary installation or construction of additional facilities, structures, and buildings.
    (*e*) Cost of items of equipment, not now owned by the applicant which must be purchased for operations at a cost of $50 or more each.
    (*f*) Cost of rental for equipment which the operator proposes to rent.
    (*g*) Rental value of items of equipment which the operator now owns and which will be devoted to the work.
    (*h*) Cost of materials and supplies, including items of equipment costing less than $50 each.
    (*i*) Cost of power, water, utilities, and any other items not provided for above.

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

CERTIFICATION

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

M. L. Ferrick, Tom Powell
(Name of company)

By _____
(Signature of authorized official)

August 22, 1951
(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.

*Same as footnote on page 1.

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

10. (a) Give a description of the real property that will be in any way involved in the exploration project, including any existing mine or operating property.
Answer: One mining claim 600' x 1500' No Name (Not patented)

(b) Give the legal description of the exact parcel, plot, or area upon which the exploration is to be conducted.
Answer: Mining claim is situated in the NW-1/4 NW-1/4 NW-1/4 Section 3, T 48, R 10 W; the SE¼ SE¼ Section 33, T 47, R 10 W; SW¼SW¼ Section 34, T 47 R 10 W and the NE¼ NE¼ Section 34, T 48 R 10 W as follows:

Beginning at corner 1 in the NW¼NW¼ Section 3, T 48, R 10 W, N 45 E, 600 ft. to Corner No. 2; thence N 45 W. 1500 ft. to corner No. 3; thence S 45 W, 600 fet to corner No. 4; thence S 45 E, 1500 ft. to Corner No. 1, the place of beginning.

11. State the present and former names of the property, if any. None

12. State, in detail, the location of the property with reference to towns, railroads, roads, shipping points, including distances and directions and kinds and conditions of roads.
Answer: The mine is located about 6½ miles Southeasterly from the town of Villa Grove and about 6½ miles from highway 285. A county, dirt road in fair to good condition is within 4 miles of the location. Bridges on the County road are in need of minor repair. The mine is connected with the County road bytrails only.

13. State source and quantity of water available for operations and its sufficiency at all seasons. State amount of power to be used, rate per hour or other cost, and source.
ANSWER: Springs within 1½ mile of the mine will supply all necessary water requirements.

14. Describe any existing useable facilities, equipment, buildings, or structure now on the property that will be devoted to the exploration work.
ANSWER: None

15. State in detail how the ore could be shipped and how and where milled.
ANSWER: Ore from the mine can be shipped by truck to either the smelter at Leadville, Colorado, or to Creed, Colorado.

16. History:
(a) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for any past suspensions of operations.
ANSWER: The vein and ore body was originally opened in 1911 by M. L. Farrick. Small operations were conducted until 1913 when work was discontinued due to the low price of metal. Subsequent operations have consisted only of minor advancement of tunnel and the mining of a small amount of high grade lead ore from the previous development. These were stopped due to lack of finances.

16. History (Continued)
(b) State briefly the known history and production of adjoining and neighboring properties.
ANSWER: No mines are immediately adjoining this claim, however, the Andover and Elizabeth mines about½ mile northwest are estimated to have produced about $120,000.00. The Lion -Wild Cat group to the southeast are estimated to have produced about $80,000.00.
(c) Furnish any available (private) reports that may apply to this application, including results of mine examinations, recommended exploration and development, and metallurgical investigations.
ANSWER: None.

17. Production:
(a) If mine is in production, furnish the following information:

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

ANSWER: Mine is not in operation.

18. Ore or mineral reserves: (If property has been operating.)
(a) Describe the ore or mineral deposits briefly.
(b) Submit available maps and assay data.
(c) Give estimated tonnage and grade of each class of ore reserves.
ANSWER: Property has not been in operation.

19. State any conditions or circumstances regarding the property not sufficiently brought out by the foregoing questions.
ANSWER: Prospect is an unpatented mining claim.

THE EXPLORATION

20. For what mineral or minerals and for what types of deposits and ores will the exploration be conducted?
ANSWER: Minerals: Lead, copper, gold and silver occurring in a lode or vein.

21. Describe briefly,but concisely, the proposed work and the estimated time required to complete it.
ANSWER: It is proposed to drive the tunnel 800 ft. on the vein and to sink a winze 100 ft. deep from the tunnel to determine the extent of the ore shoot and develop the unexplored portions of the vein. It is estimated that one year will be required to complete the work at the rate of the mining scale herein contemplated. (225 working days)

22. Furnish statement of the geological basis of the project with particular emphasis on factors leading the operator to expect the finding of commercial ore bodies. This statement should be

22. (Continued)
accompanied by supporting maps such as geological maps, maps of the proposed openings and assay maps, sample lists, and other pertinent data.
ANSWER: the 6 inch vein now opened in the tunnel and from which good ore has been mined shows good values in lead over a length of about 90 ft. in the tunnel. The vein also carries commercial values in Gold, Silver and Copper. About ½ mile to the northwest the Andover and Elizabeth produced about $120,000.00. The Lion-Wild Cat group about the same distance to the southeast produced about $60,000.00. No work has been done on the vein between the subject tunnel and these producers and it is believed that the prospects are excellent to develop a good body of high grade lead ore with commercial amounts of gold and silver and copper.
Sample No. 1, Grab sample dump Pb. 43.70%, Au. 1.80 oz., Ag. 6.30 oz.
Sample No. 2, Grab sample Au. 1.20 oz.
Sample No. 32, Chip sample, vein Pb. 33.68% Cu. 0.90%
Sample No. 33, Chip sample, vein Pb. 72.40% Cu. 2.13%
(Samples No. 32 and 33 represent a length of 90 ft. in the tunnel.)
See Sample list attached.

THE REQUIREMENTS AND COSTS

23. Tabulate in the form of an itemized statement with a sum for each item the estimated requirements and costs of the project so that the total will give the estimated cost of the project in which the Government will participate, as follows:
(a) Labor, by numbers and classes (miners, muckers, millmen, etc.,) with ages of each.
ANSWER: 2 miners at $12.00 $8100.00
(b) Supervisors, by numbers and positions, with salaries of each.
ANSWER: Included above.
(c) Cost of necessary repairs to existing facilities, structures and buildings.
ANSWER: None.
(d) Cost of necessary installation or constructionof additional facilities, structures, and buildings.
ANSWER: Shop $500.00 Bunk House $500.00 1000.00
(e) Cost of items of equipment, not now owned by the applicant which must be purchased for operations at a cost of $50 or more each.
ANSWER: Line rail $250.00 Line car 50.00 300.00
(f) Cost of rental for equipment which the operator proposes to rent. 210 cu. ft. compressor w. power 3000.00
ANSWER: Rental machines, hoist 650.00
(g) Rental value of items of equipment which the operator now owns and which will be devoted to the work.
ANSWER: Gasoline for power 1000.00
(h) Cost of materials and supplies, including items of equipment costing less than $50.00 each.

23.(Continued)

ANSWER TO (h) Powder, fuse, carbide grease oil, bits, steel and miscellaneous 1650.00

(i) Cost of power, water, utilities, and any other items not provided for above. Total 15700.00

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

ANSWER: See answer to No. 21.

Form MF-103
(April 1951)

U. S. DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS ADMINISTRATION

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

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

DO NOT FILL IN THIS BLOCK

Docket No. DMA-2023

Date received 8-30-51

Participation

[illegible] L. Herrick
[illegible] Winfield
Colorado Springs, Colorado

[illegible]
[illegible]
Colorado Springs, Colorado

Name and address of applicant

Date August 20, 1951

DEFENSE ADMINISTRATION WASHINGTON, D. C. AUG 30 10 00 AM '51

FILL IN THIS BLOCK

Date of application August 19, 1951

Estimated cost 10,000.00

Mineral or metal [illegible], Lead, Manganese, Copper, Gold, Silver

Percentage of Government participation [illegible]

Location of mine [illegible] Mining District, Saguache County, Colorado

Date of filing MF-100

DMA Docket Number, if available 2023

INSTRUCTIONS

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

THE APPLICANT

*1. Is applicant an individual, partnership, or corporation? Partnership

*2. If a partnership, state names and addresses of partners. [illegible] Winfield Herrick-[illegible] Pinello, Colo. Springs

*3. If a corporation, state names and addresses of officers, directors, and five largest stockholders. Not applicable

*4. Describe the mining and general business experience of (a) the applicant, and (b) the person or persons who will manage the project. [illegible] Herrick, over 30 years [illegible] Mining Consulting [illegible]

*5. Are you the owner or the lessee of the property? Owners

6. If owner, state what claims, liens, or encumbrances, if any, are against the property. None

7. If lessee, attach a copy of the lease and state if it is in good standing. Not applicable

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

8. Furnish current financial statement, showing assets and liabilities, and a profit and loss statement. Not applicable

9. How much money is applicant prepared to invest in proposed project? Is it sufficient to pay your part of the cost of the project as detailed in question 23 of this application form, in accordance with the regulations on Government participation (Section 9 of Mineral Order 5)? See question No. 23

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

16—64067-1

THE PROPERTY

10. (*a*) Give a description of the real property that will be in any way involved in the exploration project, including any existing mine or operating property.
    (*b*) Give the legal description of the exact parcel, plot, or area upon which the exploration is to be conducted.

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

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

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

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

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

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

*16. History:
    (*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for any past suspensions of operations.
    (*b*) State briefly the known history and production of adjoining and neighboring properties.
    (*c*) Furnish any available (private) reports that may apply to this application, including results of mine examinations, recommended exploration and development, and metallurgical investigations.

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

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

*18. Ore or mineral reserves: (If property is or has been operating.)
    (*a*) Describe the ore or mineral deposits briefly.
    (*b*) Submit available maps and assay data.
    (*c*) Give estimated tonnage and grade of each class of ore reserves.

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

THE EXPLORATION

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

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

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

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

THE REQUIREMENTS AND COSTS

23. Tabulate in the form of an itemized statement with a sum for each item the estimated requirements and costs of the project so that the total will give the estimated cost of the project in which the Government will participate, as follows:
    (*a*) Labor, by numbers and classes (miners, muckers, millmen, etc.), with wages of each.
    (*b*) Supervisors, by numbers and positions, with salaries of each.
    (*c*) Cost of necessary repairs to existing facilities, structures, and buildings.
    (*d*) Cost of necessary installation or construction of additional facilities, structures, and buildings.
    (*e*) Cost of items of equipment, not now owned by the applicant which must be purchased for operations at a cost of $50 or more each.
    (*f*) Cost of rental for equipment which the operator proposes to rent.
    (*g*) Rental value of items of equipment which the operator now owns and which will be devoted to the work.
    (*h*) Cost of materials and supplies, including items of equipment costing less than $50 each.
    (*i*) Cost of power, water, utilities, and any other items not provided for above.

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

CERTIFICATION

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

M. L. Ferrick, Tom Powell.
(Name of company)

By _____
(Signature of authorized official)

August 22, 1951
(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.

*Same as footnote on page 1.

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[illegible] 4.
E. L. Tomsol: over 60 years in mining.
Ben Pacillo - 10 years mining experience
15 years general contracting experience.

10. (a) Give a description of the real property that will be in any way involved in the exploration project, including any existing mine or operating property.
Answer: One mining claim 600' x 1500' No Name (Not patented)

(b) Give the legal description of the exact parcel, plot, or area upon which the exploration is to be conducted.
Answer: Mining claim is situated in the NW-1/4 NW-1/4 NW-1/4 Section 3, T 46, R 10 W; the SW¼ SE¼ Section 33, T 47, R 10 W; SW¼SW¼ Section 34, T 47 R 10 W and the NW¼ NW¼ Section 34, T 46 R 10 W as follows:

Beginning at corner 1 in the NW¼NW¼ Section 3, T 46, R 10 W, N 45 E, 600 ft. to Corner No. 2; thence N 45 W. 1500 ft. to corner No. 3; thence S 45 W, 600 fet to corner No. 4; thence S 45 E, 1500 ft. to Corner No. 1, the place of beginning.

11. State the present and former names of the property, if any. None

12. State, in detail, the location of the property with reference to towns, railroads, roads, shipping points, including distances and directions and kinds and conditions of roads.
Answer: The mine is located about 6½ miles Southeasterly from the town of Villa Grove and about 6½ miles from highway 285. A county, dirt road in fair to good condition is within 4 miles of the location. Bridges on the County road are in need of minor repair. The mine is connected with the County road bytrails only.

13. State source and quantity of water available for operations and its sufficiency at all seasons. State amount of power to be used, rate per hour or other cost, and source.
ANSWER: Springs within 1½ mile of the mine will supply all necessary water requirements.

14. Describe any existing useable facilities, equipment, buildings, or structure now on the property that will be devoted to the exploration work.
ANSWER: None

15. State in detail how the ore could be shipped and how and where milled.
ANSWER: Ore from the mine can be shipped by truck to either the smelter at Leadville, Colorado, or to Creed, Colorado.

16. History:
(a) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for any past suspensions of operations.
ANSWER: The vein and ore body was originally opened in 1911 by T. D. Parrick. Small operations were conducted until 1913 when work was discontinued due to the low price of metal. Subsequent operations have consisted only of minor advancement of tunnel and the mining of a small amount of high grade lead ore from the previous development. These were stopped due to lack of finances.

16. History (Continued)

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

ANSWER: No mines are immediately adjoining the claim, however, the Andover and Elizabeth mines about 2 mile northwest are estimated to have produced about $120,000.00. The Lion -Wild Cat group to the southeast are estimated to have produced about $60,000.00.

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

ANSWER: None.

17. Production:

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

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

ANSWER: Mine is not in operation.

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

(a) Describe the ore or mineral deposits briefly.

(b) Submit available maps and assay data.

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

ANSWER: Property has not been in operation.

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

ANSWER: Prospect is an unpatented mining claim.

THE EXPLORATION

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

ANSWER: Minerals: Lead, copper, gold and silver occurring in a lode or vein.

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

ANSWER: It is proposed to drive the tunnel 600 ft. on the vein and to sink a winze 100 ft. deep from the tunnel to determine the extent of the ore shoot and develop the unexplored portions of the vein. It is estimated that one year will be required to complete the work at the rate of the mining scale herein contemplated. (225 working days)

22. Furnish statement of the geological basis of the project with particular emphasis on factors leading the operator to expect the finding of commercial ore bodies. This statement should be

22. (Continued)
accompanied by supporting maps such as geological maps, maps of the proposed openings and assay maps, sample lists, and other pertinent data.

ANSWER: the 6 inch vein now opened in the tunnel and from which good ore has been mined shows good values in lead over a length of about 90 ft. in the tunnel. The vein also carries commercial values in Gold, Silver and Copper. About ½ mile to the northwest the Andover and Elizabeth produced about $110,000.00. The Lion-Wild Cat group, about the same distance to the southeast produced about $60,000.00. No work has been done on the vein between the subject tunnel and these producers and it is believed that the prospects are excellent to develop a good body of high grade lead ore with commercial amounts of gold and silver and copper.

Sample No. 1, Grab sample Dump Pb. 42.70%, Au. 1.80 oz., Ag. 6.80 oz.
Sample No. 2, Grab sample Au. 1.20 oz.
Sample No. 32, Chip sample, vein Pb. 33.68% Cu. 0.99
Sample No. 33, Chip sample, vein Pb. 72.40% Au. 1.15
(Samples No. 32 and 33 represent a length of 90 ft. in the tunnel.)
See Sample list attached.

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

(a) Labor, by numbers and classes (miners, muckers, millmen, etc.,) with wages of each.
ANSWER: 2 miners at 12.00 $3100.00
(b) Supervisors, by numbers and positions, with salaries of each.
ANSWER: Included above.
(c) Cost of necessary repairs to existing facilities, structures and buildings.
ANSWER: None.
(d) Cost of necessary installation or construction of additional facilities, structures, and buildings.
ANSWER: Shop $500.00 Bunk House $500.00 1000.00
(e) Cost of items of equipment, not now owned by the applicant which must be purchased for operations at a cost of $50 or more each.
ANSWER: Mine rail 200.00 Ore car 100.00 300.00
(f) Cost of rental for equipment which the operator proposes to rent. 3000.00
ANSWER: 210 cu. ft. compressor w power
Rental machines, hoist 500.00
(g) Rental value of items of equipment which the operator now owns and which will be devoted to the work.
ANSWER: Gasoline for power 1000.00
(h) Cost of materials and supplies, including items of equipment costing less than $50.00 each.

23.(Continued)
ANSWER 20 (h) Powder, fuse, carbide grease oil, bits, steel and miscellaneous 1850.00

(i) Cost of power, water, utilities, and any other items not provided for above. Total 15700.00

24. Furnish a time schedule of the project, stated in terms of months after project is approved, showing progress expected to be accomplished and the money expected to be spent.
ANSWER: See answer to No. 21.

Form MF-103
(April 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

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

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

DO NOT FILL IN THIS BLOCK

Docket No. DMA-2073

Date received 8-30-51

Participation

M. L. Ferrick
5 Winfield
Colorado Springs, Colorado

Tom Pinello
5 Winfield
Colorado Springs, Colorado

Name and address of applicant

Date August 23, 1951

DEFENSE MINERALS ADMINISTRATION WASHINGTON, D.C. AUG 30 9 00 AM '51

FILL IN THIS BLOCK

Date of application August 19, 1951

Estimated cost $15,700.00

Mineral or metal Primary, Lead. Secondary, Copper, Gold, Silver

Percentage of Government participation 48.4%

Location of mine Blake Mining District, Saguache County, Colorado

Date of filing MF-100

DMA Docket Number, if available 2073

INSTRUCTIONS

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

THE APPLICANT

*1. Is applicant an individual, partnership, or corporation? Partnership

*2. If a partnership, state names and addresses of partners. M.L.Ferrick-Tom Pinello, 5 Winfield, Colo.Springs

*3. If a corporation, state names and addresses of officers, directors, and five largest stockholders. not applicable

4. Describe the mining and general business experience of (a) the applicant, and (b) the person or persons who will manage the project. M.L.Ferrick, over 30 years mining experience, 12 yrs. gen. contracting experience

*5. Are you the owner or the lessee of the property? Owners

6. If owner, state what claims, liens, or encumbrances, if any, are against the property. None

7. If lessee, attach a copy of the lease and state if it is in good standing. Not applicable

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

8. Furnish current financial statement, showing assets and liabilities, and a profit and loss statement. Not applicable

9. How much money is applicant prepared to invest in proposed project? Is it sufficient to pay your part of the cost of the project as detailed in question 23 of this application form, in accordance with the regulations on Government participation (Section 9 of Mineral Order 5)? See question No. 23

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

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THE PROPERTY

10. (*a*) Give a description of the real property that will be in any way involved in the exploration project, including any existing mine or operating property.
    (*b*) Give the legal description of the exact parcel, plot, or area upon which the exploration is to be conducted.

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

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

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

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

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

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

*16. History:
    (*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for any past suspensions of operations.
    (*b*) State briefly the known history and production of adjoining and neighboring properties.
    (*c*) Furnish any available (private) reports that may apply to this application, including results of mine examinations, recommended exploration and development, and metallurgical investigations.

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

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

*18. Ore or mineral reserves: (If property is or has been operating.)
    (*a*) Describe the ore or mineral deposits briefly.
    (*b*) Submit available maps and assay data.
    (*c*) Give estimated tonnage and grade of each class of ore reserves.

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

THE EXPLORATION

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

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

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

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

THE REQUIREMENTS AND COSTS

23. Tabulate in the form of an itemized statement with a sum for each item the estimated requirements and costs of the project so that the total will give the estimated cost of the project in which the Government will participate, as follows:
    (*a*) Labor, by numbers and classes (miners, muckers, millmen, etc.), with wages of each.
    (*b*) Supervisors, by numbers and positions, with salaries of each.
    (*c*) Cost of necessary repairs to existing facilities, structures, and buildings.
    (*d*) Cost of necessary installation or construction of additional facilities, structures, and buildings.
    (*e*) Cost of items of equipment, not now owned by the applicant which must be purchased for operations at a cost of $50 or more each.
    (*f*) Cost of rental for equipment which the operator proposes to rent.
    (*g*) Rental value of items of equipment which the operator now owns and which will be devoted to the work.
    (*h*) Cost of materials and supplies, including items of equipment costing less than $50 each.
    (*i*) Cost of power, water, utilities, and any other items not provided for above.

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

CERTIFICATION

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

M. L. Ferrick, Tom Powell, By _____
(Name of company) (Signature of authorized official)

August 22, 1951 _____
(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.

*Same as footnote on page 1.

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[illegible] to Question 4.

M. S. Parnell over 50 years in mining.

Dan Nicolls - 25 years mining experience

12 years general contracting experience.

10. (a) Give a description of the real property that will be in any way involved in the exploration project, including any existing mine or operating property.
Answer: One mining claim 600' x 1500' No Name (Not patented)

(b) Give the legal description of the exact parcel, plot, or area upon which the exploration is to be conducted.
Answer: Mining claim is situated in the NW-1/4 NW-1/4 N.-1/4 Section 3, T 46, R 10 W; the SE¼ SE¼ Section 33, T 47, R 10 W; SW¼SW¼ Section 34, T 47 R 10 W and the NE¼ NE¼ Section 34, T 46 R 10 W as follows:

Beginning at corner 1 in the NW¼NW¼ Section 3, T 46, R 10 W, N 45 E, 600 ft. to Corner No. 2; thence N 45 W. 1500 ft. to corner No. 3; thence S 45 W, 600 fet to corner No. 4; thence S 45 E, 1500 ft. to Corner No. 1, the place of beginning.

11. State the present and former names of the property, if any. None

12. State, in detail, the location of the property with reference to towns, railroads, roads, shipping points, including distances and directions and kinds and conditions of roads.
Answer: The mine is located about 6½ miles Southeasterly from the town of Villa Grove and about 6½ miles from highway 285. A county, dirt road in fair to good condition is within 4 miles of the location. Bridges on the County road are in need of minor repair. The mine is connected with the County road bytrails only.

13. State source and quantity of water available for operations and its sufficiency at all seasons. State amount of power to be used, rate per hour or other cost, and source.
ANSWER: Springs within 1½ mile of the mine will supply all necessary water requirements.

14. Describe any existing useable facilities, equipment, buildings, or structure now on the property that will be devoted to the exploration work.
ANSWER: None

15. State in detail how the ore could be shipped and how and where milled.
ANSWER: Ore from the mine can be shipped by truck to either the smelter at Leadville, Colorado, or to Creed, Colorado.

16. History:
(a) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for any past suspensions of operations.
ANSWER: The vein and ore body was originally opened in 1911 by M. L. Ferrick. Small operations were conducted until 1913 when work was discontinued due to the low price of metal. Subsequent operations have consisted only of minor advancement of tunnel and the mining of a small amount of high grade lead ore from the previous development. These were stopped due to lack of finances.

16. History (Continued)
(b) State briefly the known history and production of adjoining and neighboring properties.
ANSWER: No mines are immediately adjoining this claim, however, the Andover and Elizabeth mines about ½ mile northwest are estimated to have produced about $120,000.00. The Lion -Wild Cat group to the southeast are estimated to have produced about $60,000.00.
(c) Furnish any available (private) reports that may apply to this application, including results of mine examinations, recommended exploration and development, and metallurgical investigations.
ANSWER: None.

17. Production:
(a) If mine is in production, furnish the following information:

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

ANSWER: Mine is not in operation.

18. Ore or mineral reserves: (If property has been operating.)
(a) Describe the ore or mineral deposits briefly.
(b) Submit available maps and assay data.
(c) Give estimated tonnage and grade of each class of ore reserves.
ANSWER: Property has not been in operation.

19. State any conditions or circumstances regarding the property not sufficiently brought out by the foregoing questions.
ANSWER: Prospect is an unpatented mining claim.

THE EXPLORATION

20. For what mineral or minerals and for what types of deposits and ores will the exploration be conducted?
ANSWER: Minerals: Lead, copper, gold and silver occurring in a load or vein.

21. Describe briefly, but concisely, the proposed work and the estimated time required to complete it.
ANSWER: It is proposed to drive the tunnel 500 ft. on the vein and to sink a winze 100 ft. deep from the tunnel to determine the extent of the ore shoot and develop the unexplored portions of the vein. It is estimated that one year will be required to complete the work at the rate of the mining scale herein contemplated. (225 working days)

22. Furnish statement of the geological basis of the project with particular emphasis on factors leading the operator to expect the finding of commercial ore bodies. This statement should be

22. (Continued)
accompanied by supporting maps such as geological maps, maps of the proposed openings and assay maps, sample lists, and other pertinent data.
ANSWER: the 8 inch vein now opened in the tunnel and from which good ore has been mined shows good values in lead over a length of about 90 ft. in the tunnel. The vein also carries commercial values in Gold, Silver and Copper. About ¾ mile to the northwest the Andover and Elizabeth produced about $120,000.00. The Lion-Wild Cat group about the same distance to the southeast produced about $60,000.00. No work has been done on the vein between the subject tunnel and these producers and it is believed that the prospects are excellent to develop a good body of high grade lead ore with commercial amounts of gold and silver and copper.
Sample No. 1, Grab sample dump Pb. 45.70%, Au. 1.20 oz., Ag. 8.80 oz.
Sample No. 2, Grab sample Au. 1.20 oz.
Sample No. 32, Chip sample, vein Pb. 55.68% Cu. 0.93%.
Sample No. 33, Chip sample, vein Pb. 72.40% Cu. 2.13%
(Samples No. 32 and 33 represent a length of 90 ft. in the tunnel.)
See sample list attached.

THE REQUIREMENTS AND COSTS

23. Tabulate in the form of an itemized statement with a sum for each item the estimated requirements and costs of the project so that the total will give the estimated cost of the project in which the Government will participate, as follows:
(a) Labor, by numbers and classes (miners, muckers, millmen, etc.,) with ages of each.
ANSWER: 2 miners at $12.00 $8100.00
(b) Supervisors, by numbers and positions, with salaries of each.
ANSWER: Included above.
(c) Cost of necessary repairs to existing facilities, structures and buildings.
ANSWER: None.
(d) Cost of necessary installation or construction of additional facilities, structures, and buildings.
ANSWER: Shop $500.00 Bunk House $500.00 1000.00
(e) Cost of items of equipment, not now owned by the applicant which must be purchased for operations at a cost of $50 or more each.
ANSWER: Mine rail $250.00 Mine car $50.00 300.00
2HP Chicago compressor w power 3000.00
(f) Cost of rental for equipment which the operator proposes to rent.
ANSWER: Rental machines, hoist 650.00
(g) Rental value of items of equipment which the operator now owns and which will be devoted to the work.
ANSWER: Gasoline for power 1000.00
(h) Cost of materials and supplies, including items of equipment costing less than $50.00 each.

23.(Continued)

ANSWER TO (h) Powder, fuse, carbide grease oil, bits, steel and miscellaneous $1650.00

(i) Cost of power, water, utilities, and any other items not provided for above. Total $15700.00

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

ANSWER: See answer to No. 21.