400

July 24, 1956

MEMORANDUM

To: Chief, Operations Control and Statistics Division

From: Chief, Iron and Ferro-Alloys Division

Subject: Transfer of docket from Code 400 to Code 500
Docket No. DMEA-4208
Orlan Watkins
Iron Crown Group
Uintah County, Utah

Mr. Orland Watkins' application received March 8, 1956, originally requested exploration assistance for iron-copper-lead-silver.

By letter of March 30, 1956, he was advised that iron and silver are not eligible for exploration assistance from DMEA, but that his application could be considered for copper and lead if he would provide us with information to substantiate the possibility of these last-named metals occurring on his property. A follow-up letter was sent to Mr. Watkins on July 5.

We have now received a letter dated July 16 from Mr. Watkins, stating his interest in having the application considered for copper and lead and enclosing a "Report of Assay" dated July 12.

It is suggested that the docket be transferred to the Base Metals Division for further processing.

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

Attachment

LScott 7/24/56

cc: Docket
Code 400

400

Mr. Orlan Watkins
R. F. D. No. 1
Vernal, Utah

Re: Docket No. DMEA-4200, Iron,
Copper, Lead, Silver
Iron Crown Group
Uintah County, Utah

Dear Mr. watkins:

Reference is made to our letter of March 30, 1956, in which we advised you that iron and silver are not eligible for exploration assistance by this Administration.

We suggested that if you were interested in having your application considered for copper and lead that you substantiate the possibility that the last named metals occur on your property in significant quantity.

We have heard nothing further from you on the matter and unless the requested information is received by August 5, 1956, we will remove the application from the active file and consider the matter closed.

Sincerely yours,

G. O. Mittendorf

Administrator

cc: Docket
Code 400
Adm. Read. File
T. Kiilsgaard, USGS
O. M. Bishop, USBM
FT, Region 3

TLChapman/ls
7/3/56

400

MAR 30 1956

Mr. Orlan Watkins
R. F. D. No. 1
Vernal, Utah

Re: Docket No. DMEA-4208, Iron,
Copper, Lead, Silver
Iron Crown Group
Uintah County, Utah

Dear Mr. Watkins:

The above-docketed application for exploration assistance for iron, copper, lead, and silver ores has been reviewed by the Iron and Ferro-Alloys Division of the Defense Minerals Exploration Administration, and we regret to advise you that iron and silver are not eligible for exploration assistance by this Administration.

If you would be interested in having your application considered for copper and lead, please provide us with information to substantiate the possibility that the last-named metals occur on your property in significant quantity.

Sincerely yours,

C. S. Mittendorf

Administrator

cc: Docket
Code 400
Oper. Comm.
Adm. Read. File
FT, Region 3
N. E. Nelson, USGeol.Sur.
O. M. Bishop, USBur. Mines

SPHolt/ls 3/29/56

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

400

Mr. Orlan Watkins
R. F. D. No. 1
Vernal, Utah

Re: Docket No. DMEA 4208 - Iron, Copper, Lead, Silver
Iron Crown Group
Utah County, Utah

Dear Mr. Watkins:

The above-docketed application for exploration assistance for iron, copper, lead and silver ores has been reviewed by the Iron and Ferro-Alloys Division of the Defense Minerals Exploration Administration and is being referred to Mr. W. M. Traver, Executive Officer, DMEA Field Team, Region III, 224 New Customhouse, Denver 2, Colorado, for review and a possible field examination of the property.

If a field examination is considered necessary, the Field Team will so advise you.

Sincerely yours,

Administrator

Not Sent

DOCKET
SURNAME
400 Holt
Martin

Mr. Orlan Watkins
R. F. D. No. 1
Vernal, Utah

Re: Det No. DMEA 1208 - Iron, Copper,
Lead, Silver
Uinta Group
Uintah County, Utah

Dear Mr. Watkins:

The above-docketed application for exploration assistance for iron, copper, lead and silver has been reviewed by the Iron and Ferro-Alloys Materials Defense Minerals Exploration Administration and is being referred to Mr. W. M. Trever, Executive Officer, DMEA Field Team, Reg. I, 224 New Customhouse, Denver 2, Colorado, for review and a pre field examination of the property.

If a field examination considered necessary, the Field Team will so advise you.

Sincerely yours,

Administrator

SPHOLT:fcc 3/28/56
cc to: Docket
Code 400
Admr. Read. File
Operating Comm.
FT. REG. III
Messrs. M. E. Nelson, USGS
O. M. Bishop, USBM

400 IN REPLY REFER TO:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WASHINGTON 25, D. C.

RECEIVED
MAR 14 1956

March 14, 1956

Re: DMEA 4208
Orlan Watkins
Iron Crown Group
Uintah County, Utah
$20,000 - Copper, lead, silver

Copy retained 400

Memorandum

To: W. S. Martin, Defense Minerals Exploration Administration

From: N. E. Nelson, U. S. Geological Survey

Subject: Review of application.

The applicant requests assistance in doing work at an estimated cost of $20,000. No definite program is outlined and the application gives little information in support of the request. Probably a shaft has been sunk 10 feet, and in it the vein widens out and gets bigger. How big is not stated. A copy of an assay certificate gives the assay of a sample, probably from the shaft, as:

Sample No.	Oz Au	Oz Ag	% Lead
2	Tr	Tr	0.10

Perhaps there is iron ore on the property. That there are lead and copper ores is to be doubted. Denial of the application is recommended.

N. E. Nelson

N. E. Nelson

NENelson:jeh
3/14/56
cc: Director's reading 4212
Branch reading 4212
DMEA (3)
Docket file
H.M.Meyer 3623
[redacted]

400

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
WASHINGTON 25, D. C.

March 23, 1956

Re: DMEA-4208; $20,000 - Iron, Copper, Lead
Orlan Watkins, Vernal, Utah
Iron Crown Claim Group
Uintah County, Utah

Memorandum

To: W. S. Martin, DMEA - Room 3538

From: O. M. Bishop, Branch of Base Metals

Subject: Review of application dated February 24, 1956, and received March 8, 1956

Mr. James Harris of the Bureau of Mines, Branch of Ferrous Metals and Ferroalloys, referred the subject application to me for consideration of its base metal potential since DMEA is not considering new iron ore exploration.

The high iron assay, the claim name -- "Iron Crown," and the traces of gold, silver and lead suggest that the sample came from a gossan derived from iron and base metal sulfides. The gossan may be underlain by a zone of secondary enrichment and a primary zone, one or both of which may have economic merit.

For that reason I recommend that the field team examine the property and report on its merit as a copper, lead or zinc prospect, keeping in mind that the iron ore at the outcrop might well contribute income to an operation. If the property appears to have some merit, the field team should aid the applicant in outlining a definite exploration program.

O. M. Bishop

O. M. Bishop

Copy to: Division of Minerals
Branch of Base Metals (2)
Mr. Kiilsgaard, Room 5222
Mr. Geehan, Room 3608
Files

cw

File Copy
Surname
Swanson
Kiilsgaard
Kahn
Selfridge

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

OCT - 1 1956

Mr. Orlan Watkins
R. F. D. No. 1
Vernal, Utah

Re: Docket No. DMEA-4208 (Copper-Lead)
Orlan Watkins
Iron Crown Group
Uintah County, Utah

Dear Mr. Watkins:

Your application for aid for an exploration project and other reports available to us in Washington concerning your application have been reviewed.

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

Careful study of all our information, although noting iron mineralization on your property, indicates to us that the probability of disclosing significant copper-lead ore reserves is not sufficiently promising to justify Government participation. We regret to advise you, under these circumstances, that your application for exploration assistance is denied.

We wish to thank you for your interest in the Defense Minerals Program and for bringing your property to our attention.

Sincerely yours,

C. O. Mittendorf

Administrator

WRGriswold/er 9/28/56
Copy to: Docket
Base Metals
Chron.
Admr R File

Operating Committee
Mr. Pennington, USBM
Mr. Kiilsgaard, USGS
Region III(2)

R.S.S.

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

500

September 28, 1956

Memorandum for the Files

From: Chief, Base Metals Division

Subject: Denial of application, for Docket No. DMEA-4208 (Copper-Lead)
Orlan Watkins, Iron Crown Group, Uintah County, Utah

The application is based upon what is apparently a small lense of hematite. Actually there is no indication of copper-lead mineralization and no possible basis for giving such a contract.

Anything but a denial is impossible.

W R Griswold

W. R. Griswold

WRG/er

Copy to: Docket
Base Metals
Chron.

Griswold
Betty

RECEIVED
SEP 27 1956

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
WASHINGTON 25, D. C.

September 26, 1956

Memorandum

To: W. R. Griswold, Defense Minerals Exploration Administration

From: Commodity Specialist, Branch of Base Metals

Subject: Review of Field Team Examination Report, Docket No. DMEA-4208 (Copper-Lead), Orlan Watkins, Iron Crown Group, Uintah County, Utah

The applicant proposed to explore for copper, lead, and silver on the Iron Crown claims. Although the total costs were estimated at $20,000.00, no definite exploration program was submitted.

Examination of the Iron Crown claims by R. W. Osterstock and F. B. Moore, Geological Survey, revealed that the property contains a small body of high-grade hematite but essentially no copper, lead, or silver; moreover, there is no evidence to indicate that metal sulfides occur at depth under the hematite.

Because of this the Field Team recommended that the application for Government assistance to explore for copper, lead, and silver be denied.

I concur with this recommendation.

J. W. Pennington

J. W. Pennington

Copy to: Division of Minerals
Branch of Base Metals 2
Thor Kiilsgaard, U.S.G.S.
F. D. Lamb
Files

Griswold
Bitty

IN REPLY REFER TO:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WASHINGTON 25, D. C.

RECEIVED
SEP 27 1956

September 25, 1956

Re: DMEA 4208
Orlan Watkins
Iron Crown Group
Uintah County, Utah
$20,000 - Iron, Copper, Lead

Memorandum

To: W. S. Martin, Defense Minerals Exploration Administration

From: N. E. Nelson, U. S. Geological Survey

Subject: Review of Field Team report

The applicant requested assistance in doing $20,000 worth of work on an outcrop of hematite iron. No work program was outlined.

The applicant believed the iron ore might be the capping of a copper-lead deposit.

The examiner concludes that it is a small deposit of good grade hematite probably associated with a bed of limestone (Morgan) but possibly related to a fault. No evidence of sulfide minerals, copper-lead, is present and the examiner sees no reason to expect them.

The examiner recommends denial of the application. I concur with the recommendation.

N. E. Nelson

N. E. Nelson

Griswold
Betty

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

224 New Customhouse
Denver 2, Colorado

September 19, 1956

Memorandum

To: Secretary to the Operating Committee

From: DMEA Field Team, Region III

Subject: Report of Examination, Docket DMEA-4208 (Copper-Lead), Orlan Watkins (Iron Crown group), Uintah County, Utah

Enclosed are the original and three copies of a geologic report covering the examination of the subject property. The Bureau of Mines did not participate in the examination.

The examiner found no evidence to indicate that a significant amount of copper, lead, or silver could be expected from this property. He recommends that the application be denied, and we concur in this recommendation.

DMEA Field Team, Region III

W. M. Traver

By W. M. Traver
Executive Officer

Enclosures

Reviewed by
DMEA OPERATING COMMITTEE
9-26-56
(Date)

FOR UNITED STATES GOVERNMENT USE ONLY

IN REPLY REFER TO:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

DMEA
DEPARTMENT OF THE INTERIOR
SEP 18 1956
REGION III
DENVER, COLORADO

Defense Minerals Exploration Administration
Denver Federal Center
Denver, Colorado

TRANSMITTED

SEP 19 1956

September 17, 1956

Memorandum

To: Executive Officer, DMEA Field Team, Region III

From: E. N. Harshman

Subject: DMEA Docket 4208 (Copper-lead), Orlan Watkins (Iron Crown group) Uintah County, Utah

Enclosed are the original and eight copies of a geological report by Frank B. Moore, U. S. Geological Survey, covering his examination of the subject property.

The applicant proposed to spend $20,000 in exploring a small hematite deposit for iron, copper, lead, and silver; no program was outlined in the application.

The examination revealed that although a small body of high grade hematite ore is present on the claims, lead, zinc, copper, and silver are either absent or present in insignificant amounts. In spite of the name "Iron Crown group" there appears to be no reason to expect base metal sulfides beneath the iron ore.

I concur with Moore's recommendation that the application be denied.

The property will not be examined by an engineer from the Bureau of Mines.

E. N. Harshman
Member, Field Team

Enclosures (9)
ENHarshman:mp

Reviewed by
DMEA OPERATING COMMITTEE
9-26-56
(date)

FOR UNITED STATES GOVERNMENT USE ONLY

DEPARTMENT OF THE INTERIOR
SEP 18 1956
REGION III
DENVER, COLORADO

UNITED STATES
DEPARTMENT OF THE INTERIOR
FRED A. SEATON, SECRETARY

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION III

TRANSMITTED

SEP 19 1956

DMEA 4208

Orlan Watkins

Iron Crown claims

Uintah County, Utah

Copper-lead-silver

Geologic Report

by

Frank B. Moore

Reviewed by
DMEA OPERATING COMMITTEE
9-26-56
(date)

September 12, 1956

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2.	Geologic map of an area including the Iron Crown prospect and the Dyer mine, Uintah County, Utah.	3

DMEA 4208

ORLAN WATKINS
IRON CROWN CLAIMS
UINTAH COUNTY, UTAH

SUMMARY

Orlan Watkins, Vernal, Utah, applied for Government assistance to explore for copper, lead, and silver on the Iron Crown claims, Uintah County, Utah. The property is in the Ashley National Forest 45.5 miles from Vernal (fig. 1).

The region around the Iron Crown property is, in general, weakly mineralized. The Dyer copper mine, 6 miles to the northeast in the Carbonate district, has accounted for a major share of the $400,000 production from that district.

The Iron Crown property is developed by a 22-foot shaft sunk on a small high-grade body of hematite. Weathered limestone 10 to 15 feet stratigraphically above the hematite contains trace amounts of copper, lead, and silver. An east-striking fault appears to form the north boundary of the hematite body, but its relationship to the copper, lead, and silver mineralization is unknown.

It is recommended that the application for Government assistance be denied.

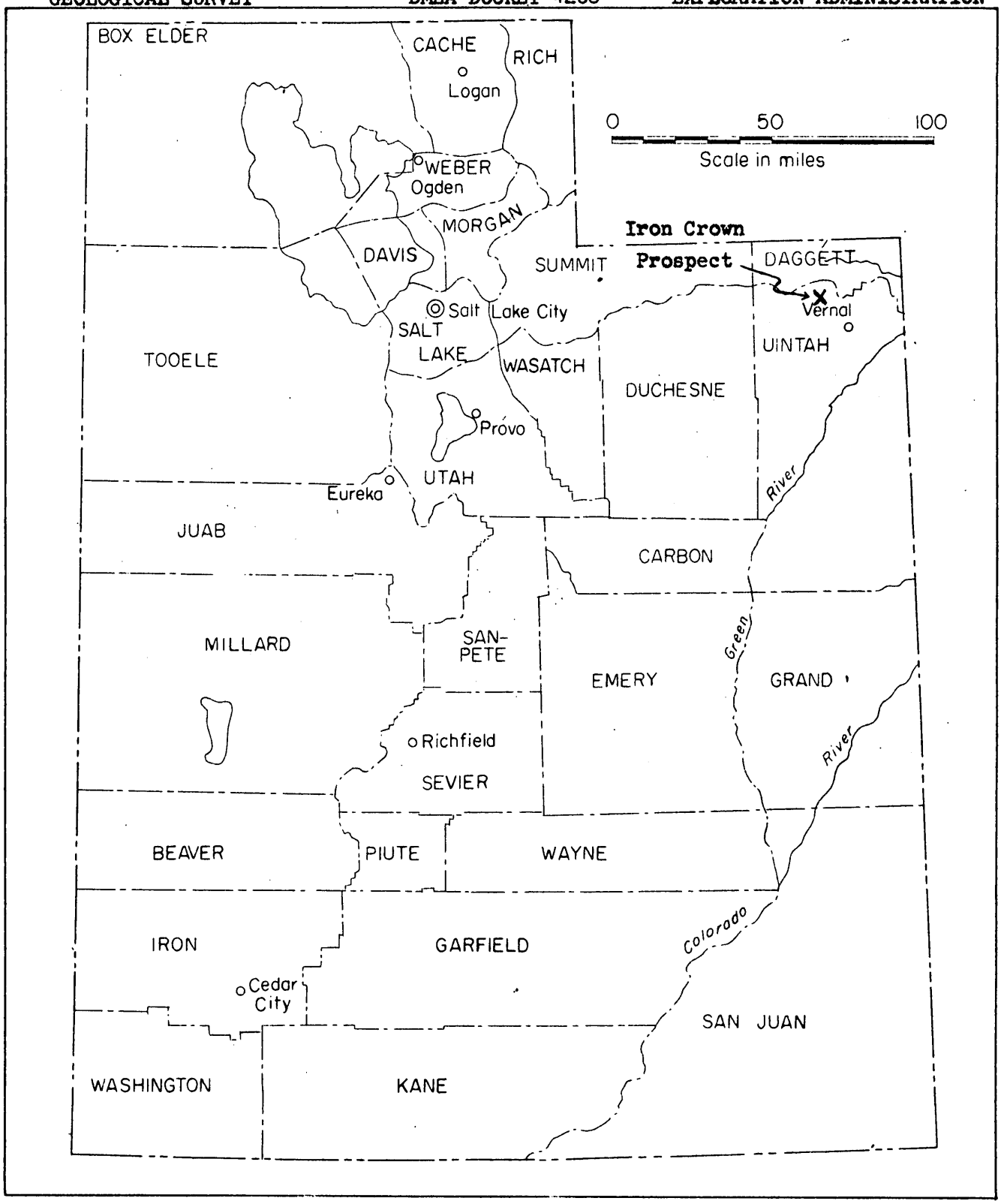


FIGURE 1—INDEX MAP OF UTAH, **SHOWING LOCATION OF IRON CROWN PROSPECT, UNINTAH COUNTY.**

INTRODUCTION

Orlan Watkins, R.F.D. No. 1, Vernal, Utah, applied for Government assistance to explore for copper, lead, and silver on the Iron Crown claims, Uintah County, Utah. The applicant proposes that $20,000 be spent on exploration but did not state where or how. At the time of the field examination the applicant proposed no specific exploration program other than the construction of an access road to develop the hematite deposit.

The property was examined by R. W. Osterstock and F. B. Moore, U. S. Geological Survey, on August 18, 1956. The examiners were accompanied by Messrs. Orlan Watkins, Frank Watkins, and Martin Campbell, prospective officers in a corporation yet to be formed.

LOCATION AND ACCESSIBILITY

The Iron Crown group consists of six claims in Cow Hollow in the Ashley National Forest. The claims are in unsurveyed sec. 3, R. 2 S., T. 20 E., Salt Lake Meridian, and can be reached by proceeding from Vernal, Utah, as follows: Utah Highway 44 north from Vernal for 23 miles; turn left off Highway 44 for 1.7 miles; road forks, take right fork for 1.9 miles; road forks, take left fork for 11.7 miles (at 1.7 miles Dyer mine turn-off to north; at 4.4 miles cross Big Brush Creek; at 11.1 miles is sign for Tailor Mountain Trail to the south); turn left on mine road and proceed 7.2 miles to property (pass campsite in Cow Hollow at 7.0 miles). Total distance

from Vernal is 45.5 miles. The last 7.2 miles is accessible only by jeep or similar 4-wheel drive vehicle.

HISTORY AND PRODUCTION

The hematite deposit at the Iron Crown property has been known to Frank Watkins, father of Orlan Watkins, for more than 40 years; however, no ore has been shipped. The Dyer copper mine, about 6 miles to the northeast, has been the largest producer of ore in the district. Total value of ore produced from the district is about $400,000. Several small lead mines and several hematite prospects occur within a 5-mile radius of the Iron Crown property.

GEOLOGY

Rocks exposed in the vicinity of the Iron Crown claims include Precambrian quartzitic sandstone of the Uinta Mountain group, Mississippian limestones and shales, and Pennsylvanian limestone and sandstone of the Morgan (?) formation (fig. 2). Large areas to the south are covered by Tertiary Bishop conglomerate. The Iron Crown prospect is believed to be in limestones of the Morgan formation.

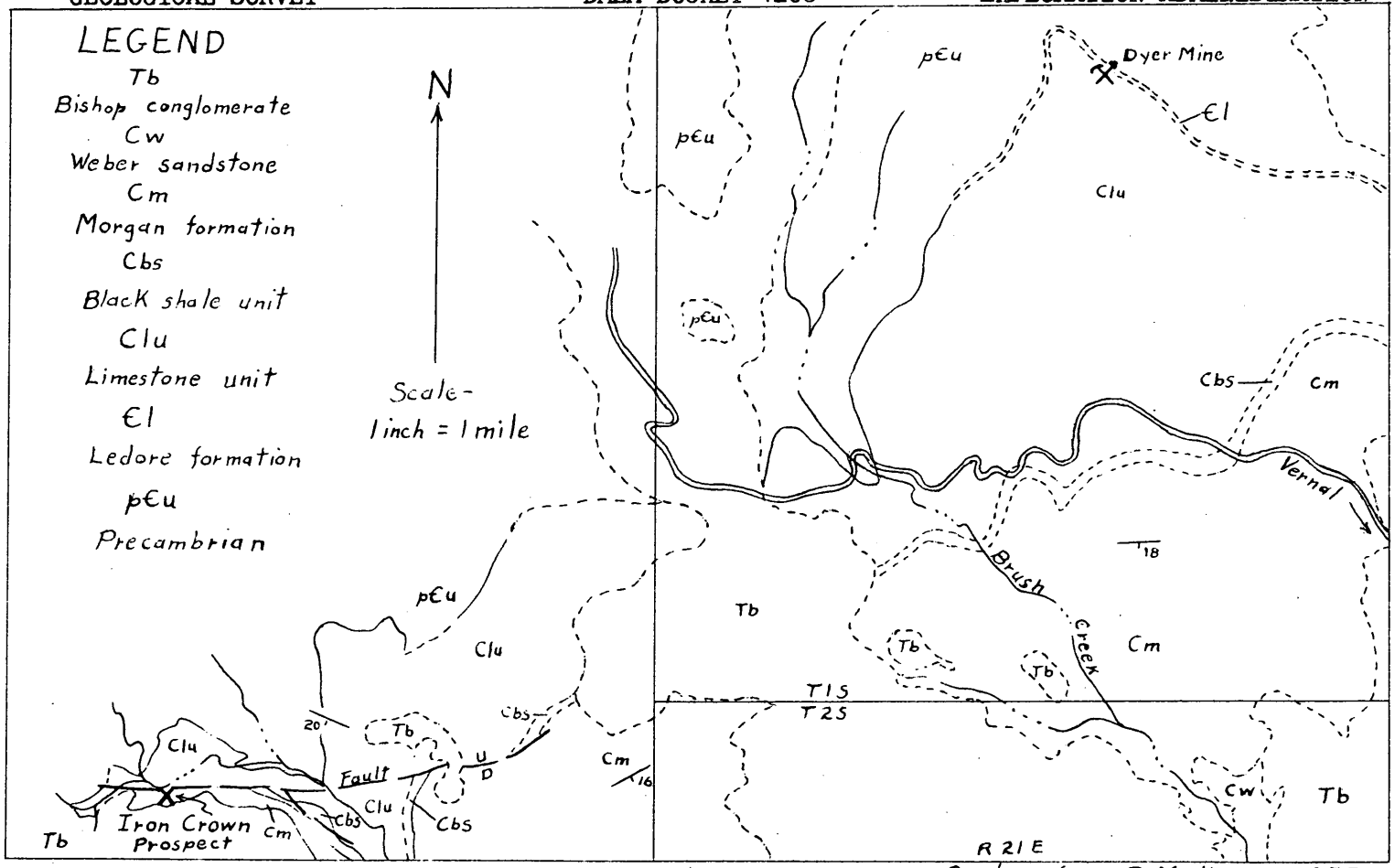
The beds dip to the south at an angle of about 15°. An east-striking fault, as mapped by Kinney (D. M. Kinney, 1955, U. S. Geological Survey Bulletin 1007) cuts through the claims area.

The Iron Crown property is developed by a shaft 22 feet deep sunk on a hematite body 75 to 100 feet long and about 15 feet thick.

U.S. DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

EXMAINATION REPORT
DMEA DOCKET 4208

PREPARED FOR
DEFENSE MINERALS
EXPLORATION ADMINISTRATION



Geology from D. M. Kinney, 1955

FIGURE 2 - GEOLOGIC MAP OF AN AREA INCLUDING THE IRON CROWN PROSPECT AND THE DYER MINE, UINTAH COUNTY, UTAH

The hematite appears to be associated with a bed of the Morgan (?) formation but may also be related to the fault. In the lower part of the shaft beneath the hematite body massive clay is exposed above and below a 2-foot thick limestone bed. The limestone bed is apparently cut off near the north side of the shaft. The applicant states that a fault surface is present behind the lagging on the north side of the shaft. This structure may represent the fault mapped by Kinney. Five feet stratigraphically above the hematite body and 15 feet south of the shaft, a 6-foot thick bed of unaltered grayish-brown limestone is exposed by bulldozer work. The limestone is overlain by 3 to 4 feet of variegated shales which are, in turn, overlain by a yellowish, weathered limestone of undetermined thickness. This limestone was reported by the applicant to carry small amounts of lead.

There is no evidence of any sulfide mineralization at the property, and the hematite body does not appear to be a gossan beneath which lead-zinc or copper ore (either primary or secondary) may be found. Assays furnished by the applicant from material in the weathered limestone showed a content of 0.10 and 0.20 percent lead. The lead is probably from lead carbonate minerals in the limestone. No other values were shown in the assays accompanying the application. During the examination, however, the applicant stated that samples from the weathered limestone contained 0.08 percent copper and that a sample from the shaft just below the hematite body contained 1.14 percent tin. Assays on samples cut by the examining team were as follows:

Location	Type	Percent Pb	Percent Cu	Percent Zn	Percent Sn	Percent Fe
10 feet below collar of shaft.	Grab	None	None	None	None	24.8
Weathered zone 30 feet south of shaft.	Grab	< 0.05	None	< 0.05	None	--
High iron zone on surface.	Grab	None	None	None	None	60.6

CONCLUSIONS AND RECOMMENDATIONS

The Iron Crown property contains a small body of high-grade hematite which may have value as jewelers rouge, or as paint pigment. It contains essentially no copper, lead, or silver, nor is there any evidence to indicate that it might contains such values at depth.

For the reasons stated above, it is recommended that the application for Government assistance to explore for copper, lead, and silver be denied.

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

Grisinel

224 New Customhouse
Denver 2, Colorado

September 19, 1956

Memorandum

To: Secretary to the Operating Committee

From: DMEA Field Team, Region III

Subject: Report of Examination, Docket DMEA-4208 (Copper-Lead), Orlan Watkins (Iron Crown group), Uintah County, Utah

Enclosed are the original and three copies of a geologic report covering the examination of the subject property. The Bureau of Mines did not participate in the examination.

The examiner found no evidence to indicate that a significant amount of copper, lead, or silver could be expected from this property. He recommends that the application be denied, and we concur in this recommendation.

DMEA Field Team, Region III

W. M. Traver

By W. M. Traver
Executive Officer

Enclosures

Reviewed by
DMEA OPERATING COMMITTEE

(date)

FOR UNITED STATES GOVERNMENT USE ONLY

IN REPLY REFER TO:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
Defense Minerals Exploration Administration
Denver Federal Center
Denver, Colorado

TRANSMITTED

SEP 1 9 1956

September 17, 1956

Memorandum

To: Executive Officer, DMEA Field Team, Region III

From: E. M. Hershman

Subject: DMEA Docket 4208 (Copper-Lead), Orlan Watkins (Iron Crown group) Uintah County, Utah

Enclosed are the original and eight copies of a geological report by Frank B. Moore, U. S. Geological Survey, covering his examination of the subject property.

The applicant proposed to spend $30,000 in exploring a small hematite deposit for iron, copper, lead, and silver; no program was outlined in the application.

The examination revealed that although a small body of high grade hematite ore is present on the claims, lead, zinc, copper, and silver are either absent or present in insignificant amounts. In spite of the name "Iron Crown group" there appears to be no reason to expect base metal sulfides beneath the iron ore.

I concur with Moore's recommendation that the application be denied.

The property will not be examined by an engineer from the Bureau of Mines.

E. M. Hershman
E. M. Hershman
Member, Field Team

Enclosures (9)
EMHershman:mp

Reviewed by
DMEA OPERATING COMMITTEE

(Date)

FOR UNITED STATES GOVERNMENT USE ONLY

DMEA
DEPARTMENT OF THE INTERIOR
SEP 18 1956
DENVER, COLORADO

UNITED STATES
DEPARTMENT OF THE INTERIOR
FRED A. SEATON, SECRETARY

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION III

TRANSMITTED
SEP 19 1956

DMEA 4803

Orlan Watkins

Iron Crown claims

Uintah County, Utah

Copper-lead-silver

Geologic Report

by

Frank B. Moore

Reviewed by
DMEA, EXAMINING COMMITTEE

September 12, 1956

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2. Geologic map of an area including the Iron Crown prospect and the Dyer mine Uintah County Utah.	3

DMRA 4208

ORLAN WATKINS
IRON CROWN CLAIMS
UINTAH COUNTY, UTAH

SUMMARY

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It is recommended that the application for Government assistance be denied.

U.S. DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

EXAMINATION REPORT
DMEA DOCKET 4208

PREPARED FOR
DEFENSE MINERALS
EXPLORATION ADMINISTRATION

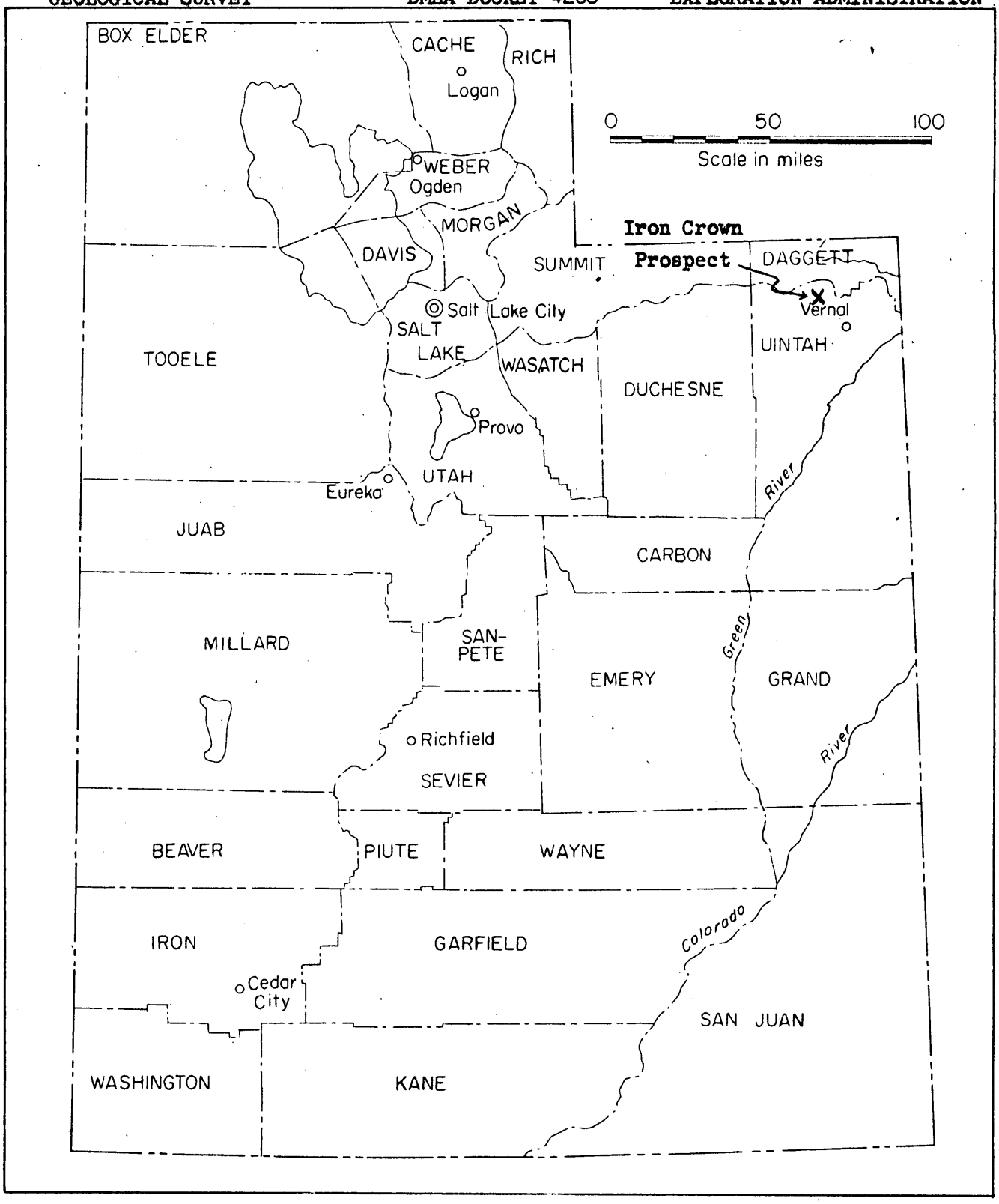

FIGURE 1—INDEX MAP OF UTAH, **SHOWING LOCATION OF IRON CROWN PROSPECT, UNINTAH COUNTY.**

INTRODUCTION

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The property was examined by R. W. Osterstock and F. B. Moore, U. S. Geological Survey, on August 18, 1956. The examiners were accompanied by Messrs. Orlan Watkins, Frank Watkins, and Martin Campbell, prospective officers in a corporation yet to be formed.

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GEOLOGY

Rocks exposed in the vicinity of the Iron Crown claims include Precambrian quartzitic sandstone of the Uinta Mountain group, Mississippian limestones and shales, and Pennsylvanian limestone and sandstone of the Morgan (?) formation (fig. 2). Large areas to the south are covered by Tertiary Bishop conglomerate. The Iron Crown prospect is believed to be in limestones of the Morgan formation.

The beds dip to the south at an angle of about 15°. An east-striking fault, as mapped by Kinney (D. M. Kinney, 1955, U. S. Geological Survey Bulletin 1007) cuts through the claims area.

The Iron Crown property is developed by a shaft 22 feet deep sunk on a hematite body 75 to 100 feet long and about 15 feet thick.

U.S. DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

EXMAINATION REPORT
DMEA DOCKET 4208

PREPARED FOR
DEFENSE MINERALS
EXPLORATION ADMINISTRATION

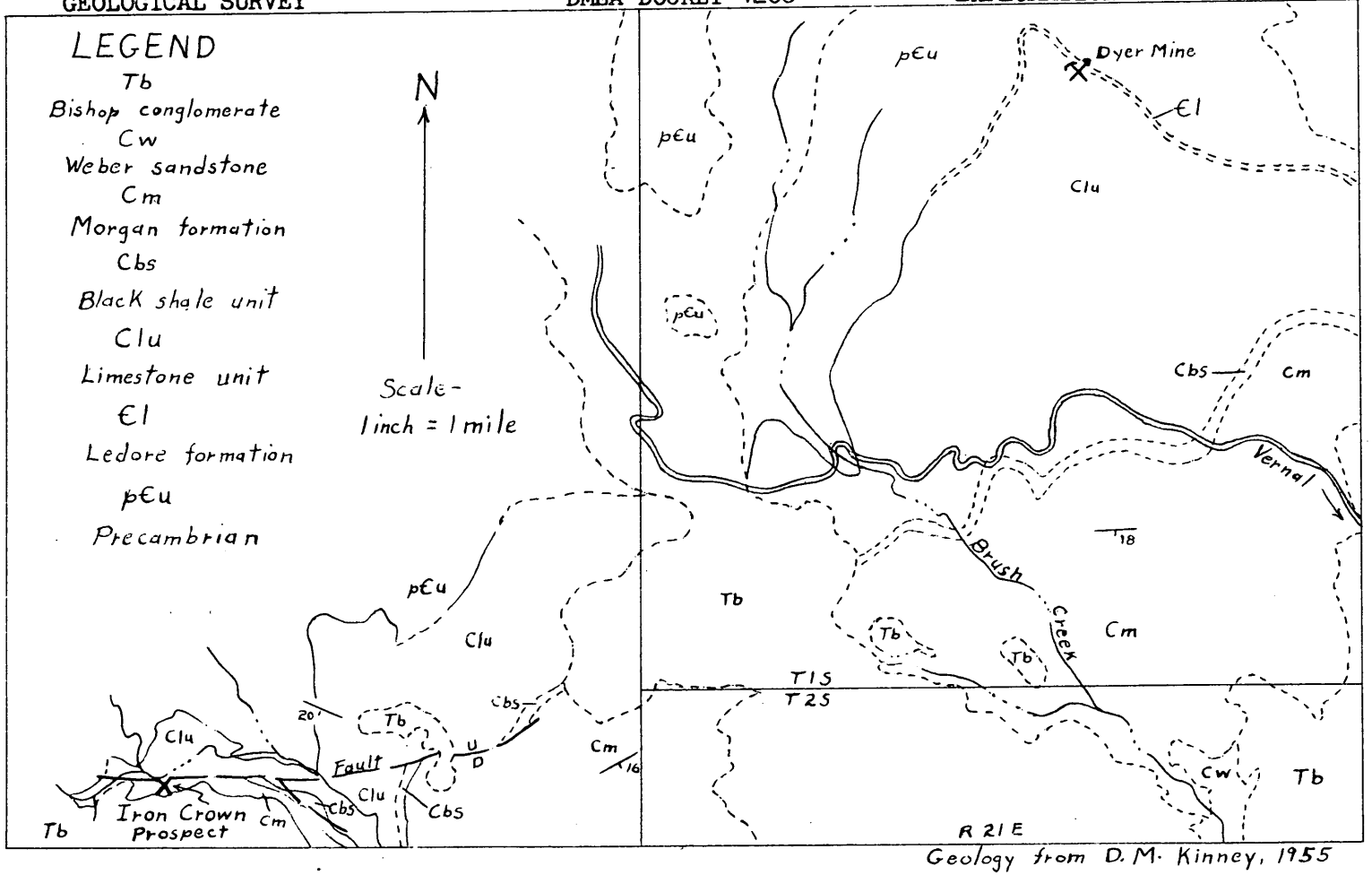

FIGURE 2 - GEOLOGIC MAP OF AN AREA INCLUDING THE IRON CROWN PROSPECT AND THE DYER MINE, UINTAH COUNTY, UTAH

The hematite appears to be associated with a bed of the Morgan (?) formation but may also be related to the fault. In the lower part of the shaft beneath the hematite body massive clay is exposed above and below a 2-foot thick limestone bed. The limestone bed is apparently cut off near the north side of the shaft. The applicant states that a fault surface is present behind the lagging on the north side of the shaft. This structure may represent the fault mapped by Kinney. Five feet stratigraphically above the hematite body and 15 feet south of the shaft, a 6-foot thick bed of unaltered grayish-brown limestone is exposed by bulldozer work. The limestone is overlain by 3 to 4 feet of variegated shales which are, in turn, overlain by a yellowish, weathered limestone of undetermined thickness. This limestone was reported by the applicant to carry small amounts of lead.

There is no evidence of any sulfide mineralization at the property, and the hematite body does not appear to be a gossan beneath which lead-zinc or copper ore (either primary or secondary) may be found. Assays furnished by the applicant from material in the weathered limestone showed a content of 0.10 and 0.20 percent lead. The lead is probably from lead carbonate minerals in the limestone. No other values were shown in the assays accompanying the application. During the examination, however, the applicant stated that samples from the weathered limestone contained 0.08 percent copper and that a sample from the shaft just below the hematite body contained 1.14 percent tin. Assays on samples cut by the examining team were as follows:

Location	Type	Percent Pb	Percent Cu	Percent Zn	Percent Sn	Percent Fe
10 feet below collar of shaft.	Grab	None	None	None	None	24.8
Weathered zone 30 feet south of shaft.	Grab	< 0.05	None	< 0.05	None	--
High iron zone on surface.	Grab	None	None	None	None	60.6

CONCLUSIONS AND RECOMMENDATIONS

The Iron Crown property contains a small body of high-grade hematite which may have value as jewelers rouge, or as paint pigment. It contains essentially no copper, lead, or silver, nor is there any evidence to indicate that it might contains such values at depth.

For the reasons stated above, it is recommended that the application for Government assistance to explore for copper, lead, and silver be denied.

Transmitted
Betty

August 7, 1956

Docket

Memorandum

To: S. R. Wilson

From: Superintendent, Denver Experiment Station, Reg. III

Subject: Docket DMEA 4208 (Copper-Lead), Orlan Watkins (Iron Crown group), Uintah County, Utah

Enclosed please find the application for Orlan Watkins, DMEA 4208, in the amount of $20,000.00 which was received in this office on August 7, 1956.

A field examination and suitable report are required. The completed report should be forwarded directly to the Executive Officer, with a copy of your memorandum of transmittal to this office.

A geologist will be assigned either from the Salt Lake City or Denver office.

JOHN F. SHAW

John F. Shaw

Enclosure

cc: W. M. Traver (3)
E. N. Harshman
Sec. Op. Com (2)

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

RECEIVED
AUG - 9 1956

224 New Customhouse
Denver 2, Colorado

August 6, 1956

Memorandum

To: E. N. Harshman
J. F. Shaw (2) with brochure

From: Field Team, Region III

Subject: Docket DMEA 4208 (Copper-Lead) Orlan Watkins (Iron Crown group) Uintah County, Utah

Enclosed is the subject application in the amount of $20,000.00. A field examination and suitable report are requested.

Enclosed for your further information is a copy of a letter from W. S. Martin, Acting Chairman of the Operating Committee, dated July 31, 1956 and attached memoranda of review of the application by O. M. Bishop and N. E. Nelson.

DMEA Field Team, Region III

W. M. TRAVER

By W. M. Traver
Executive Officer

Enclosures

HMC:jy
cc: Docket 4208
Sec. Op. Comm. (2)
Chron.

File Copy
Surname
Griswold
Martin
Johnson
Wetherdorf

500

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

JUL 31 1956

Mr. W. M. Traver
Executive Officer
DMEA Field Team, Region III
224 New Customhouse Bldg.
Denver 2, Colorado

Re: Docket No. DMEA-4208 (Copper-Lead)
Orlan Watkins
Iron Crown Group
Uintah County, Utah

Dear Mr. Traver:

The cited application for exploration assistance is being referred to your office for consideration, a field examination of the property if warranted, and recommendations.

Copies of memoranda dated March 14 and 23, 1956, by N. E. Nelson, Geological Survey, and O. M. Bishop, Bureau of Mines, respectively, relating to the project, are enclosed for your information. We are also transmitting copies of a letter received from the Applicant, dated July 16, 1956, which is in reply to our letter of July 5.

In certain respects, the application is incomplete; however, it is problematical whether much additional information could be provided by the Applicant.

Sincerely yours,

W. S. Martin (857)

ACTING Chairman, Operating Committee

Enclosures

WRGriswold/bjl (7/30/56)

APPROVED:

7s/ Robert W. Geehan 857

Member, Bureau of Mines

N. E. Nelson 857

Member, Geological Survey

Copy to: Docket
Admr. R. File
Op. Committee
Base Metals
Mr. Kullsgaard
Mr. Pennington
Chron.

R.C.S.

File Copy
Surname

500

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

JUL 31 1956

Mr. Orlan Watkins
R. F. D. No. 1
Vernal, Utah

Re: Docket No. DMEA-4208 (Copper-Lead)
Orlan Watkins
Iron Crown Group
Uintah County, Utah

Dear Mr. Watkins:

Your application for Government assistance to explore the cited property has been reviewed by the Base Metals Division of the Defense Minerals Exploration Administration and has been referred to:

Mr. W. M. Traver
Executive Officer
DMEA Field Team, Region III
224 New Customhouse Bldg.
Denver 2, Colorado

If the Field Team requires additional information concerning your application, they will contact you at an early date.

Sincerely yours,

G. O. Mittendorf

Administrator

WRGriswold/bjl

Copy to: Docket
Admr. R. File
Op. Committee
Base Metals
Mr. Pennington
Mr. Kiilsgaard
Region III (2)
Chron.

P.C.S.

letter was written but
the Committee agreed that
in [illegible] instance a
Field referral was justified
[and this should [illegible] be]
[illegible] out
WSM
7/30/56

File Copy
Surname
Griswold
Nelson

500

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

Mr. Orlan Watkins
R. F. D. No. 1
Vernal, Utah

Re: Docket No. DMEA-4208 (Copper-Lead)
Orlan Watkins
Iron Crown Group
Uintah County, Utah

Dear Mr. Watkins:

We have your letter of July 16, requesting that the cited application be considered for copper and lead. In our letter to you of July 5, it was stated that you should substantiate the possibility that these minerals occurred on your property in significant quantity.

The assay certificate submitted with your July 16 letter shows only a trifling lead content, 0.20 per cent, which could not possibly be of any importance. Unless you can show by assays that copper and lead minerals may exist on your property in worthwhile amounts, we cannot consider your application.

Meanwhile, we shall hold your application pending for thirty days awaiting further advice from you.

Sincerely yours,

Administrator

WRGriswold/bjl (7/25/--7/30/56)

Copy to: Docket
Admr. R. File
Op. Committee
Base Metals
Mr. Kiilsgaard
Mr. Pennington
Region III (2)
Chron.

File Copy
Surname
Friend
Selfridge

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

500

Mr. Orlan Watkins
R. F. D. No. 1
Vernal, Utah

Re: Docket No. DMEA-4208 (Copper-Lead)
Orlan Watkins
Iron Crown Group
Uintah County, Utah

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Administrator

WRGriswold/er 7/25/56.
Copy to: Docket
Admr R File
Op. Committee
Base Metals
Mr. Pennington, USBM
Mr. Aiilsgaard, USGS
Region III (2)
Chron.

500

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

Files

7/30/56

Memorandum for the Files

From: Chief, Base Metals Division

Subject: Docket No. DMEA-4208 (Copper Lead), Orlan Watkins, Iron Crown Group, Uintah County, Utah

We have a case here of a non-technical person from whom it would be hopeless to expect very much of a presentation. This case had been discussed with Mr. Martin, who had previously handled it; it was his opinion, in which I concurred, that it was futile to expect much more from the Applicant and that a field referral was in order. However, after some consideration, I decided to request at least an assay certificate showing indications of significant mineralization.

I note the following remarks:

"too general"

Why is it "general" to ask for an assay certificate? We thought we had written a concrete, specific request.

"Maps - showing property boundaries"

These are already on hand, see "Notice of Location". Truly, the map is not very elaborate, but it shows the claims, with discovery pit, which is ample for our needs of the moment.

"present workings, proposed work"

Applicant states that:

> "We have an open pit-shaft 10 ft deep," and also "a road had to be made into Cow Hollow, . . . approximately $3000 has been spent on roads . . . it is vein bearing and we have uncovered it to some extent."
>
> "We wish to explore further for iorn ore, cooper, and lead."

"assay data of samples, stoping widths, analysis"

Assays are requested.

Obviously the Applicant does not know width, since he states:

"We have dug a 10 foot shaft for depth and have not found a a botton."

"Geology -- how ore occurs -- type of rock"

Applicant is obviously unqualified to supply anything along this line. A man who spells iron as "iorn" and copper as "cooper" can hardly be expected to provide much in the way of geology.

All in all, and bearing in mind that the Applicant has already replied to one letter, it seems obvious that we have received about all that could be hoped for, except an assay certificate showing better values. If he cannot supply this -- curtains.

Speaking generally, I am inclined to be tolerant with non-technical people. Fellows of this sort have made a lot of discoveries. Neither Stratton nor Tabor had much of an education, but they didn't do too badly. They discovered some of the great mines of the world, which is more than any of us with the DMEA have ever done.

Maybe if we were more tolerant with the "little fellow", we might change our luck. By playing along with the big companies in Utah, who can write glib, verbose applications for their old, worn-out mines, our results have reached the magnificent total of zero. I don't see how we could do much worse by giving the "little fellow" a chance.

I am very sure that neither Stratton nor Tabor could have filed a DMEA application to conform to our requirements -- yet they managed to make major contributions to the nation's mineral resources.

W. R. Griswold

W. R. GRISWOLD

WRGriswold/bjl

Copy to: Docket
Mr. Martin
Base Metals
Chron.

Stratton had hunches & one ayes records and developed the Independence in a good business manner. Tabor never discovered any thing. He grubstaked the boys who found the mines.

500

Mr. Martin
Nelson

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

7/30/56

Memorandum for the Files

From: Chief, Base Metals Division

Subject: Docket No. DMEA-4208 (Copper Lead), Orlan Watkins, Iron Crown Group, Uintah County, Utah

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W. R. Griswold

W. R. GRISWOLD

WRGriswold/bjl

Copy to: Docket
~~Mr.~~ Martin
Base Metals
Chron.

400

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

July 24, 1956

MEMORANDUM

To: Chief, Operations Control and Statistics Division

From: Chief, Iron and Ferro-Alloys Division

Subject: Transfer of docket from Code 400 to Code 500
Docket No. DMEA-4208
Orlan Watkins
Iron Crown Group
Uintah County, Utah

Mr. Orland Watkins' application received March 8, 1956, originally requested exploration assistance for iron-copper-lead-silver.

By letter of March 30, 1956, he was advised that iron and silver are not eligible for exploration assistance from DMEA, but that his application could be considered for copper and lead if he would provide us with information to substantiate the possibility of these last-named metals occurring on his property. A follow-up letter was sent to Mr. Watkins on July 5.

We have now received a letter dated July 16 from Mr. Watkins, stating his interest in having the application considered for copper and lead and enclosing a "Report of Assay" dated July 12.

It is suggested that the docket be transferred to the Base Metals Division for further processing.

W S Martin

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

Attachment

DOCKET
Surname:
Martin

400

July 24, 1956

MEMORANDUM

To: Chief, Operations Control and Statistics Division

From: Chief, Iron and Ferro-Alloys Division

Subject: Transfer of docket from Code 400 to Code 500
Docket No. DMEA-4208
Orlan Watkins
Iron Crown Group
Uintah County, Utah

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It is suggested that the docket be transferred to the Base Metals Division for further processing.

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

Attachment

LScott 7/24/56

cc: Docket
Code 400

R. R. CASTO P. M. CRISMON ORRIN FISHER HAROLD E. CULVER

PHONE EM 3-7417

CRISMON & NICHOLS

ASSAYERS AND CHEMISTS

229-231 SOUTH WEST TEMPLE STREET

P. O. Box 1708

RECEIVED JUL 23 1956

REPORT OF ASSAY

Frank Watkins

SALT LAKE CITY, UTAH July 12, 1956

WE HAVE ASSAYED YOUR one SAMPLES AND FIND it TO CONTAIN AS FOLLOWS:

DESCRIPTION	NO.	OZS. GOLD PER TON	OZS. SILVER PER TON	PER CENT LEAD	PER CENT COPPER	PER CENT ZINC	PER CENT INSOL.	PER CENT IRON	PER CENT	VALUE OF GOLD PER TON
	2			0.20						

REMARKS:

CHARGES $ 1.00

CRISMON & NICHOLS

BY Crismon

400

DOCKET
Hoyt
Chapman

JUL 5 - 1956

Mr. Orlon Watkins
R. F. D. No. 1
Vernal, Utah

Re: Docket No. DMEA-4208, Iron,
Copper, Lead, Silver
Iron Crown Group
Uintah County, Utah

Dear Mr. Watkins:

Reference is made to our letter of March 30, 1956, in which we advised you that iron and silver are not eligible for exploration assistance by this Administration.

We suggested that if you were interested in having your application considered for copper and lead that you substantiate the possibility that the last named metals occur on your property in significant quantity.

We have heard nothing further from you on the matter and unless the requested information is received by August 5, 1956, we will remove the application from the active file and consider the matter closed.

Sincerely yours,

C. O. Mittendorf

Administrator

cc: Docket
Code 400
Adm. Read. File
T. Kiilsgaard, USGS
O. M. Bishop, USBM
FT, Region 3

TLChapman/ls
7/3/56

Vernal, Utah
July 16, 1956

United States Dept. Interior
Defense Materials Exploration Adm.
Washington 25 D.C.

RECEIVED
JUL 23 1956
WSM

Dear Sirs:

I am writing you in regard to your letter of July 5-1956 asking if we were interested in having our application considered for Copper and lead. We are very much interested and enclosed is a copy of a recent assay made from top ground found on location named in application.

May we hear from you in regards to same

Thank you

Re: Docket No. DMEA 4308
Iron Copper, Lead, Silver
Iron Crown Group
Uintah County Utah.

Orlan Watkins
R.F.D. No 1
Vernal, Utah

400

Docket
Holt
Martin

MAR 3 0 1956

Mr. Orlan Watkins
R. F. D. No. 1
Vernal, Utah

Re: Docket No. DMEA-4208, Iron,
Copper, Lead, Silver
Iron Crown Group
Uintah County, Utah

Dear Mr. Watkins:

The above-docketed application for exploration assistance for iron, copper, lead, and silver ores has been reviewed by the Iron and Ferro-Alloys Division of the Defense Minerals Exploration Administration, and we regret to advise you that iron and silver are not eligible for exploration assistance by this Administration.

If you would be interested in having your application considered for copper and lead, please provide us with information to substantiate the possibility that the last-named metals occur on your property in significant quantity.

Sincerely yours,

W. S. Mittendorf

Administrator

cc: Docket
Code 400
Oper. Comm.
Adm. Read. File
FT, Region 3
N. E. Nelson, USGeol.Sur.
O. M. Bishop, USBur. Mines

SPHolt/ls 3/29/56

Docket

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
WASHINGTON 25, D. C.

March 23, 1956

Copy retained 400

Re: DMEA-4208; $20,000 - Iron, Copper, Lead
Orlan Watkins, Vernal, Utah
Iron Crown Claim Group
Uintah County, Utah

Memorandum

To: W. S. Martin, DMEA - Room 3538

From: O. M. Bishop, Branch of Base Metals

Subject: Review of application dated February 24, 1956, and received March 8, 1956

WSM

Mr. James Harris of the Bureau of Mines, Branch of Ferrous Metals and Ferroalloys, referred the subject application to me for consideration of its base metal potential since DMEA is not considering new iron ore exploration.

The high iron assay, the claim name -- "Iron Crown," and the traces of gold, silver and lead suggest that the sample came from a gossan derived from iron and base metal sulfides. The gossan may be underlain by a zone of secondary enrichment and a primary zone, one or both of which may have economic merit.

For that reason I recommend that the field team examine the property and report on its merit as a copper, lead or zinc prospect, keeping in mind that the iron ore at the outcrop might well contribute income to an operation. If the property appears to have some merit, the field team should aid the applicant in outlining a definite exploration program.

O. M. Bishop

O. M. Bishop

Copy to: Division of Minerals
Branch of Base Metals (2)
Mr. Kiilsgaard, Room 5222
Mr. Geehan, Room 3608
Files

Copy retained 400

Docket

IN REPLY REFER TO:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WASHINGTON 25, D. C.

RECEIVED
MAR 14 1956

March 14, 1956

Re: DMEA 4208
Orlan Watkins
Iron Crown Group
Uintah County, Utah
$20,000 - Copper, lead, silver

Copy retained 400

Memorandum

WSM

To: W. S. Martin, Defense Minerals Exploration Administration

From: N. E. Nelson, U. S. Geological Survey

Subject: Review of application.

The applicant requests assistance in doing work at an estimated cost of $20,000. No definite program is outlined and the application gives little information in support of the request. Probably a shaft has been sunk 10 feet, and in it the vein widens out and gets bigger. How big is not stated. A copy of an assay certificate gives the assay of a sample, probably from the shaft, as:

Sample No.	Oz Au	Oz Ag	% Lead
2	Tr	Tr	0.10

Perhaps there is iron ore on the property. That there are lead and copper ores is to be doubted. Denial of the application is recommended.

N. E. Nelson

N. E. Nelson

March 9, 1956
Subject: DMEA-4208
Re: Exploration Assistance
Iron Crown

Mr. Orlan Watkins
RFD # 1
Vernal, Utah

My dear Mr. Watkins:

The receipt of your application dated February 24, 1956, for exploration assistance under the Defense Production Act of 1950, as amended, is hereby acknowledged.

Your application has been assigned Docket Number DMEA-4208 and referred to the Iron Ferro-Alloys Division.

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

Sincerely yours,

Robert E. Adams, Chief
Operations Control and
Statistics Division

March 9, 1956

Memorandum

To: Executive Officer, DMEA Field Team, Region III

From: Chief, Operation's Control and Statistics Division

Subject: Assignment of Docket Number

There is listed below the assigned docket number to an application recently received from Region III.

DMEA
- 4208 Orlan Watkins

Robert E. Adams
Chief, Operation's Control
and Statistics Division

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

March 5, 1956

RECEIVED
MAR - 8 1956

224 New Customhouse
Denver 2, Colorado

Memorandum

To: Secretary to the Operating Committee, DMEA

From: Field Team, Region III

Subject: Application for DMEA Aid (Iron-Copper-Lead-Silver), Orlan Watkins, Iron Crown Property, Uintah County, Utah

Enclosed are three copies of the subject application in the amount of $20,000.00.

One copy of the application is being retained in our files.

DMEA Field Team, Region III

W. M. Traver

By W. M. Traver
Executive Officer

Enclosures

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

March 5, 1956

224 New Customhouse
Denver 2, Colorado

RECEIVED
MAR - 8 1956

Memorandum

To: Secretary to the Operating Committee, DMEA

From: Field Team, Region III

Subject: Application for DMEA Aid (Iron-Copper-Lead-Silver), Orlan Watkins, Iron Crown Property, Uintah County, Utah

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DMEA Field Team, Region III

W. M. TRAVER

By W. M. Traver
Executive Officer

Enclosures

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

DMEA
Date Rec'd.
Form Approved.
Budget Bureau No. 42-R1085.2.
MAR 5 1956
BUREAU OF MINES
Denver, Colorado

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

Not to be filled in by applicant.

Docket No. DMEA-4208
Metal or Mineral Iron-Copper-Lead-Silver
Date Received 3-8-56
Estimated Cost $20,000.00
Participation (Government %)

RECEIVED
MAR - 8 1956

INSTRUCTIONS

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

(Corporation to be formed: Orlan Watkins President, Frank Watkins Vice President, Isla W. King Secr. Treas. balance - L. Ted Watkins, Gearld Watkins, Martin Campbell. - Vernal, Utah

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

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

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

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

3. *Applicant's property rights.*—(*a*) State the legal description of the land upon which you wish to explore, including all land which you possess or control that may be benefited by the exploration, and excluding any land or interest in land which is not to be included in the exploration project contract Forest Reserve - Permission, Ashley National Forest - Mr Glen Lambert Federal Bldg. Vernal, Utah. discription enclosed on photostatic copy. (Ashley National Forest - Cow Hollow)

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

(*c*) State your interest in the land, whether owner, lessee, purchaser under contract, or otherwise Filed 6 claims (Photostatic copy enclosed)

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

(*e*) If you own the land, describe any liens or encumbrances on it none

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

4. *Physical description.*—(*a*) Describe in detail any mining or exploration operations which have been or now are being conducted upon the land, including existing mine workings and production facilities. State your interest, if any, in such operations. Also describe accessibility of mine workings for examination purposes. Roads - Filed, located, and $3,000 worth pd. assesments 6 claims

(*b*) State past and current production, and ore reserves, if any, giving quantities and grades. None

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

(*d*) State the facts with respect to the accessibility of the project: Access roads, distances to shipping, supply and residence points. Have Access road. 5 miles from Main Forest road. 180 Miles to Geneva Steel Co. Provo, Utah
Supply & Residence - Vernal, Utah

(*e*) State the availability of manpower, materials, supplies, equipment, water, and power.
Manpower, Materials, Supplies, Equipment available - Vernal, Utah
Water - Ashley Creek - Power (own plant)

16—66551-1

5. *The exploration project.*—(a) State the mineral or minerals for which you wish to explore Iorn Ore - Lead Cooper & Silver (Photostatic copies enclosed showing what we have right now)

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

(*c*) The work will start within 10 days and be completed within 24 months from the date of an exploration project contract.

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

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

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

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

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

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

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

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

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

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

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

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

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

☐ Money ☐ Use of equipment owned by you ☒ Other Labor & Development work

Explain in detail on acompanying paper.

CERTIFICATION

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

Dated February 24, 1956, 1956

Orlan Watkins
(Applicant)

By Vernal Watkins

RFD 1

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

U. S. GOVERNMENT PRINTING OFFICE 16—66551-1

Vernal, Utah
Feb. 24, 1956

Defense Minerals Exploration Administration
United States Dept. Of The Interior
Bureau Of Mines
Region 1V
Executive Officer, DMEA, 224 New Customhouse Bldg.
Denver 2, Colorado

DMEA
Date Rec'd.
MAR 5 1956

RECEIVED
MAR - 8 1956

BUREAU OF MINES
Denver, Colorado

Dear Sirs:

I am enclosing my applicaation for Exploration Funds - your form MF -103.
No 1. The contract is to be in the name of Orlan Watkins RFD #1 Vernal, Utah
A corporation is to be formed. (Frank Watkins listed as Vice President is th e father of Orlan Watkins President, Isla Watkins King Secr, Treas., L. Ted Watkins, Gearld Watkins, and Martin Campbell son-in-law.)
NO 3. Permission was granted by the Ashley National Forest - Mr. Glen Lambert Federal Bldg. Vernal, Utah. The minerals were located in Cow Hollow (Photostatic) copy of discription.
NO. 4.A road had to be made into Cow Hollow, the claims were uncovered enough to show it was good. We have open pit - Shaft 10 feet deep. (b) Enclosed is photostatic copies of assay's. - Not under production, present or past.
(c) The deposit is vein bedded. We estimate 10,000 tons, prospects of much more.We would like to explore for the full contents of Iorn Ore, Cooper, Lead, and Silver.The claims on the north side appear to be perpendicular, on the south side they are perpendicular and widening out and getting bigger. (d) approxmately $3,000 has been spent on roads to make it accesable to the Ashley National Forest road, and to uncover and dig 10 foot shaft. The claim is about 5 miles from forest road, and about 180 miles to Geneva Steel Co. at Provo, Utah. Vernal, Utah would be the supply and residence center. It is about 40 miles from Cow Hollow. (e)All manpower, materials, supplies, equipment and etc. would be available at Vernal, ZUtah. Water would be available in Cow Hollow. The Ashley Creek runs through it. Power would have to be (at present time) a diesel engine, or power of that type. (Future power Colorado River Project)
No. 5. We wish to explore further for Iorn Ore, Cooper, and Lead. (b) as stated the claim appears to be perpendicular on the north, and on the south it is perpendicular but widens out and gets bigger. It is vein bearing, and we have uncovered it to some extent. We have dug a 10 foot Shaft for depth and have not found a bottom. (d) The operating experience - Orlan Watkins - 20 years for Utah Fuel Co. Sunnyside, Utah -Kaiser Steel Co. Sunnyside Utah. about 5 years Utah Smelter Co. Magna, Utah. Frank Watkins - 15 years Utah Fuel Co. Sunnyside, Utah.
No 6. (a) Independent Contracts - None at present time, but the occasion may arise to where it would be best to let certain work be contracted.
(b) Labor, Supervision, Consultants. - This is our plan for our share of Contract (Labor & Development work) Enclosed is a labor rate schedule.
(c)Operating Materials & supplies - shovels, picks, tools for timbers, miners props, bookeeping supplies.
(d) Operating equipment - Bull Dozer, Hoist, Buket, Truck, Diesel engine, etc. (this would have to be worked out after claim is valued and need arises)
(e) None
(f) Housing for employees & equipment.
(g) None
We estimate the total could be $20,000 (but would apply for it as needed, or submit a total when the claim is valued.)

Vernal, Utah
Feb. 27, 1956

UINTAH COUNTY
MINERALS HISTORY: Early records show that copper-Silver ore was known to exist in the Brown's Park area as far back as 1876, the same type ore on Willow Creek in 1877, and iorn ores 20-25 miles northwest of Vernal in 1879. In fact someiorn ore was shipped in '79.

The Dyer Mine, 25 miles north of Vernal, is the only Uintah County mine that has produced copper in quantity. From1887 to 1899, several hundredtons of ore were whipped, which ran about 50% copper, 26 oz. of Silver, and $6 worth of gold per ton. A small blast furnace was installed near the mine in 1899 andoperated for about two years on ore averaging 33.5% copper.

Other discoveries were made in the Carbonate district, near the Dyer mine including Red Creek, Jessie Ewing, and Willow Creek Canyons - and some developement work was done, but no shipments made. Copper ore was also discovered near Ouray and a leaching plant operated. Cooper was also found in the LittleSplit Mountain area, in eastern Uintah County in 1896 and several tons of high grade copper - silver ore were shipped.

Iorn Ore fromthe Pope mine, near Dyer copper property, and fromthe woodside prospect, 20 miles northwest of Vernal, were shipped to smelters for fluxing purposes in the late 1900's.

From - Utah's Mining Industry
An Historical Operational and Economic Review of Utah's Mining Industry By Utah Mining Association - 918 Kerns Bldg.
Salt Lake City, Utah

The location of "Iorn Crown Mine" (The mine we are applying for exploration funds for) is located in the same area that the Dyer Mine mentioned above is located. We feel the Iorn Crown is a sister, or even better, to the Dyer Mine. The Dyer was more or less in pockets, we feel the Iorn Crown is in veins.

PREVAILING WAGES

The wage scale for skilled, semi-skilled and unskilled labor is on the average the same as listed on the union agreements with the exception of the following:

Classification	Rate per Hour
Common Labor	~~$15.0~~ 1.50
Cement finishers	2.25
Welders	2.25
Truck Drivers	1.60
Roustabouts	1.50

Carpenters: Union scale is paid for approximately 50 percent of the carpenter work performed. The average wage for the remainder of this same work is $2.25 per hour.

The character of the labor force is very good and is believed quite definitely above average. It is dependable labor force with a good record of productivity. Labor turnover on the whole is low.

Seasonal fluctuations in the labor force is rather high. However, this is due primarily to the fact that a large percentage of the local workers are employed in the type of work which cannot be sheltered from the weather. Most of this work is of the construction variety and it is frequently necessary for these employers to cease operations during the winter months.

Vernal, Utah
Feb. 28, 1956

Dear Sirs:

We should be happy to send character references, and credit ratings, if you so desire.

R. R. CASTO P. [illegible] CRISMON ORRIN [illegible]ER HAROLD E. CULVER

CRISMON & NICHOLS

ASSAYERS AND CHEMISTS

PHONE 3-7417 229-231 SOUTH WEST TEMPLE STREET P. O. Box 1708

REPORT OF ASSAY

SALT LAKE CITY, UTAH October 5, 1955

Frank Watkins

WE HAVE ASSAYED YOUR one SAMPLES AND FIND it TO CONTAIN AS FOLLOWS:

DESCRIPTION	NO.	OZS. GOLD PER TON	OZS. SILVER PER TON	PER CENT LEAD	PER CENT COPPER	PER CENT ZINC	INSOL. PER CENT	PER CENT IRON	PER CENT	VALUE OF GOLD PER TON
	2	Trace	Trace	0.10						

RECEIVED
MAR - 8 1956

REMARKS:

CHARGES $ 2.50

CRISMON & NICHOLS

BY [signature]

NOTICE OF LOCATION

NOTICE IS HEREBY GIVEN, That the undersigned, having complied with the requirements of SECTION 2324 of the REVISED STATUTES of the United States, and the Local Laws, Customs and Regulations of this District, ha located Fifteen hundred feet in length by 600 feet in width, on this the [illegible] Lode, Vein or Deposit, bearing Gold, Silver, Copper, Lead and other valuable minerals, situated [illegible]

in the [illegible] Mining District, [illegible] County, State of [illegible],

the location being described and marked on the ground as follows, to-wit:

Beginning 600 feet [illegible] of this location (~~Discovery~~) Monument, at the [illegible] end center monument, and running

thence [illegible] 300 feet to [illegible] corner monument No. 1;

thence [illegible] 1500 feet to [illegible] corner monument No. 2;

thence [illegible] 300 feet to [illegible] end center monument;

thence [illegible] 300 feet to [illegible] corner monument No. 3;

thence [illegible] 1500 feet to [illegible] corner monument No. 4;

thence [illegible] 300 feet to place of beginning; including all Dips, Spurs, Angles and Variations [illegible]

The above described Mining Claim shall be known as the [illegible]

Date of discovery [illegible]

Located this [illegible] day of [illegible], 19[illegible]

DIAGRAM OF CLAIM

NAME OF LOCATORS:

[illegible]

[illegible] Recorded at Request of [illegible] Uintah County Recorder

at [illegible] A.M. Fee Paid $ [illegible]

by [illegible] Dept. Book [illegible] Page [illegible] Ref.: [illegible]

HARDEN BENNION

THE STATE OF UTAH

SECRETARY OF STATE'S OFFICE

SALT LAKE CITY

August 1, 1918.

Mr. Ervin Eaton,
Vernal, Utah.

My dear friend:

I have been some time getting it done, but have finally secured the test on the iron ore you sent me, copy of which I hand you herewith, and beg to advise you that the sample you gave me is of an exceptionally high quality and easy of reduction.

It shows,as you will note, a metallic iron content of 63.73%. 70% iron is all that can be produced from 100% iron ore, so that you will see that you have almost reached "perfection", something that mortals very rarely do.

Trusting the information will be of service to you and assuring you that I will bring the matter to the notice of prominent mining people wherever I have the opportunity, I am,

Yours very truly,

Harden Bennion

Secretary of State.

HGH/HB.

LABORATORIUM OF
HERMAN HARMS, PH. G.
STATE CHEMIST
135-141 STATE CAPITOL
PHONE MAIN 530. (STATE CHEMIST)

SUBJECT:

SALT LAKE CITY, UTAH. August 1st, 1918.

Hon. Jordan Winch,

Salt Lake City, Utah.

Dear Sir:

The sample of "Iron Ore" handed to me on July 30, 1918, yielded the following, upon a careful Chemical Analysis:

Total Iron Oxide:	90.10%
Corresponding to Metallic Iron:	63.75%

Respectfully,

Herman Harms