November 12, 1953

MEMORANDUM

3140

MN

To: Administrator

From: Iron and Ferro-Alloys Division

Subject: Denial of Application by Field Team Region IV
Docket No. DMEA 3140 - Manganese
Mr. Mantle F. Bagleton and Mr. Carl R. McLean
Helen Claims, Cache County, Utah

The applicants requested $5,000.00 to build a road and explore the Helen claims for manganese. No clear-cut description of the proposed work was given by the applicants.

Rocks exposed on the property are primarily beds of quartzite of Cambrian or pre-Cambrian age. The quartzite has undergone minor brecciation in a narrow zone. The brecciation rock fragments and walls of cracks are coated with manganese and iron stains.

No intrusive rocks were seen in the area and there are no structures worthy of development. There has been no production from the claims, and there are no ore reserves on the property.

A sample taken from a manganese-stained quartzite boulder averaged 6.5 percent manganese and 74.4 percent SiO_2.

It is concluded that evidence of manganese mineralization is not sufficiently strong to justify the requested loan.

Because of the extremely small tonnage and low-grade of the manganese-bearing breccia and small possibility of discovering larger deposits on these claims by additional exploratory work the Field Team Region IV recommended that the subject application for exploration assistance be denied.

We concur in the denial.

JHopkins:fec
11-12-53
cc: Docket
Code 400
Admr. Reading File

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

400

FILE COPY
SURNAME:

Hopkins
Martin

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

November 12, 1953

MEMORANDUM

To: Administrator

From: Iron and Ferro-Alloys Division

Subject: Denial of Application by Field Team Region IV
Docket No. DMEA 3140 - Manganese
Mr. Markle F. Engledow and Mr. Carl B. McLean
Helen Claims, Cache County, Utah

The applicants requested $5,000.00 to build a road and explore the Helen claims for manganese. No clear-cut description of the proposed work was given by the applicants.

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A sample taken from a manganese-stained quartzite boulder assayed 6.5 percent manganese and 74.4 percent SiO_2.

It is concluded that evidence of manganese mineralization is not sufficiently strong to justify the requested loan.

Because of the extremely small tonnage and low-grade of the manganese-bearing breccia and small possibility of discovering larger deposits on these claims by additional exploratory work the Field Team Region IV recommended that the subject application for exploration assistance be denied.

We concur in the denial.

JHopkins:foc
11-12-53
cc: Docket
Code 400
Admr. Reading File

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

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

November 12, 1953

MEMORANDUM

To: Administrator

From: Iron and Ferro-Alloys Division

Subject: Denial of Application by Field Team Region IV
Docket No. DMEA 3140 - Manganese
Mr. Markle F. Engledow and Mr. Carl B. McLean
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A sample taken from a manganese-stained quartzite boulder assayed 6.5 percent manganese and 74.4 percent SiO_2.

It is concluded that evidence of manganese mineralization is not sufficiently strong to justify the requested loan.

Because of the extremely small tonnage and low-grade of the manganese-bearing breccia and small possibility of discovering larger deposits on these claims by additional exploratory work the Field Team Region IV recommended that the subject application for exploration assistance be denied.

Denial letter attached.

We concur in the denial.

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

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

Reg 4 case

224 New Customhouse
Denver 2, Colorado

October 21, 1953.

For Review
WSM

Mr. Markle F. Engledow
Box 325, R.F.D. No. 1
Ogden, Utah

Mr. Carl B. McLean
Box 103
Roy, Utah

Re: Docket DMEA-3140

Gentlemen:

Reference is made to your application for Government aid on the Helen Claims.

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

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

Very truly yours,

John F. Shaw
John F. Shaw
For W. H. King
Field Team, Region IV

HMC:cwm

cc: Docket
Administrator, DMEA
SRWilson
Ralph Roberts
AHKoschmann (2)
Chron.

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

Reviewed by
DMEA OPERATING COMMITTEE
10-30-53
(date)

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

224 New Customhouse
Denver 2, Colorado

October 21, 1953.

Memorandum

To: Administrator, Defense Minerals Exploration Administration
Attention: 200

From: Field Team, Region IV

Subject: Report of Examination - DMEA Docket 3140 (Manganese), Engledow and McLean, Helen Claims, Cache County, Utah.

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

John F. Shaw
John F. Shaw
For W. E. King

A. H. Koschmann
A. H. Koschmann

Enclosures

Reviewed by
DMEA OPERATING COMMITTEE
10-30-53
(date)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Mining Division
Region IV

October 21, 1953.

Memorandum

To: Field Team, Region IV

From: Chief, Mining Division, Region IV

Subject: Report of Examination - DMEA Docket 3140 (Manganese), Engledow and McLean, Helen Claims, Cache County, Utah.

Enclosed are nine copies of the Engineering Report on the subject docket.

The applicants requested $5,000.00 to build a road and explore the property. No clear-cut description of the proposed work was given by the applicants.

The engineer examiner concludes that evidence of manganese mineralization is not sufficiently strong to justify Government participation and he recommends that the application be denied.

We concur in this recommendation.

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

Enclosures

Reviewed by
DMEA OPERATING COMMITTEE
10-30-53
(date)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
1600 EAST FIRST SOUTH STREET
SALT LAKE CITY 1, UTAH

October 16, 1953

Memorandum

To: W. H. King, Executive Officer, DMEA Field Team, Region IV

From: Chief, Minerals Development Branch, Mining Division, Region IV

Subject: Docket No. DMEA 3140 (Manganese), Engledow and McLean, Cache County, Utah

Attached are nine copies of an engineering report covering examination of the subject property by W. E. Young. Also included are three copies each of forms 6-993 and 6-803. The original brochure is also attached.

Manganese mineralization on the subject property is found in a brecciated zone in Cambrian or pre-Cambrian quartzite. There are no ore reserves and the property appears to have little significance for production of manganese. The examining engineer recommends the requested DMEA loan be denied. I concur in this recommendation.

Stephen R. Wilson

Stephen R. Wilson

Enclosures

Reviewed by
DMEA OPERATING COMMITTEE
10-30-53
(date)

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

October 5, 1953

Memorandum

To: DMEA Field Team, Region IV

From: A. H. Koschmann

Subject: DMEA Docket 3140, Engladow and McLean, Helen Claims, Cache County, Utah

Enclosed are 9 copies of the geologic report by C. G. Tillman of the U. S. Geological Survey covering the above docket.

It has been recommended that the loan be denied.

A. H. Koschmann
Supervising Geologist
Colorado-Wyoming

Enclosures (9)

Reviewed by
DMEA OPERATING COMMITTEE
10-30-53
(date)

Room 326 - 222 So. West Temple
Salt Lake City 1, Utah
October 1, 1953

Memorandum

To: A. E. Kastenmann
Field Team, Region IV

From: G. G. Tillman, for R. J. Roberts
Utah-Nevada District Office

Subject: DMEA Docket 3140, Engleder and Malean, Helen Claims, Cache County, Utah.

Enclosed are nine copies of a geologic report on the Helen Claims, DMEA Docket 3140, by G. G. Tillman, geologist, U. S. Geological Survey.

Engleder and Malean applied for a DMEA loan to aid in the exploration for manganese ore on their claims in Cache County, Utah.

Manganese minerals on the Helen Claims are found staining quartzite fragments and coating the walls of cracks in a narrow zone of breccia in Cambrian or pre-Cambrian quartzite.

Because of the extremely small tonnage and low grade of the manganese-bearing breccia and small possibility of discovering larger deposits on these claims by additional exploratory work it is recommended that the applicants' request for a DMEA loan be denied.

R. J. Roberts

By _____
G. G. Tillman

GGT/rm
Enclosures - 2
1. Geologic report (9 copies)
2. Brochure

Reviewed by
DMEA OPERATING COMMITTEE
10-30-53
(date)

UNITED STATES
DEPARTMENT OF THE INTERIOR
DOUGLAS McKAY, SECRETARY

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION IV

Rockwell-Nelson Company, DMEA Project 3140 (Manganese)

Cache County, Utah

By

C. G. Tillman
U. S. Geological Survey

October 1, 1953

Reviewed by
DMEA OPERATING COMMITTEE
10-20-53
(Date)

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ILLUSTRATIONS

Fig. 1 - Index Map of Utah

GEOLOGIC REPORT

ENGLEDOW-MELEAN COMPANY

DMEA DOCKET 3140 (MANGANESE)

CACHE COUNTY, UTAH

Introduction

On July 25, 1953 M. F. Engledow and C. B. Melean applied for a DMEA loan, docket 3140, to aid in exploration for manganese ore on their claims in Cache County, Utah. The property was examined September 29, 1953 by W. E. Young, U. S. Bureau of Mines and C. G. Tillman, U. S. Geological Survey. The owners were present during the examination.

Location and accessibility

The Melean Nos. 1, 2, and 3 claims are in section 13, 14, 23, or 24, T. 8 N., R. 1 E., SLB&M, Cache County, Utah and may be reached by driving north 15.3 miles on Utah State Highway 162 from its junction with Utah State Highway 39 at the Pineview Reservoir in Ogden Canyon; thence 2 miles east on a bulldozed access road to Mill Creek (fig. 1). The claims lie on the slope several hundred feet above the road.

History and production

The property is covered by three claims; the Melean Nos. 1, 2 and 3 located end to end in a more or less east-west direction.

There has been no production from these claims.

Geology and Ore Deposits

The area is underlain by quartzite with minor interbedded quartzite pebble conglomerate and argillaceous quartzite. These are probably of pre-Cambrian or Cambrian age. The regional dip of the rocks is to the east.

The quartzite ranges in color from white to gray to red. It has undergone minor brecciation in a narrow zone which strikes approximately east. Manganese and iron have stained the brecciated rock fragments and coat the walls of cracks. Insignificant quantities of psilomelane were noted at a small prospect pit on the east side of Mill Creek ravine.

Soil covers most of the area to a depth of two or three feet and rock outcrops are not abundant.

There are no ore reserves on the claims.

Proposed Exploration

The applicants propose to build a short access road and to do bull-dozer stripping to expose the manganese stained quartzite breccia. Total cost of the project is estimated to be $5,000.

Recommendations

As the tonnage and grade of manganese exposed or likely to be exposed by additional work is not significant, it is recommended that the applicants' request for an exploration loan be denied.

U.S. DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

DEFENSE MINERALS EXPLORATION ADMINISTRATION
DOCKET NO. 3140

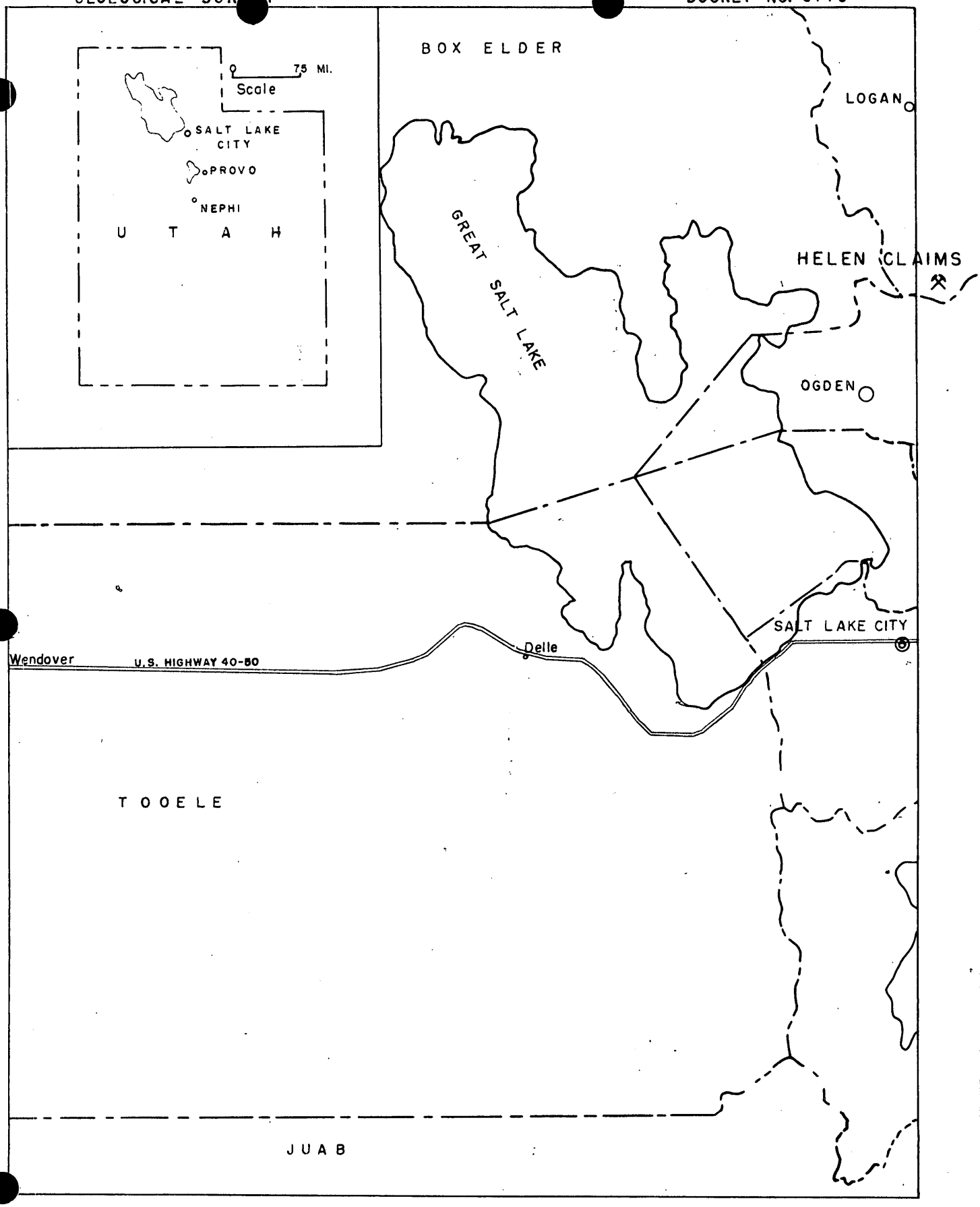

FIG. 1 INDEX MAP OF UTAH

0 8 16 24 MILES
Scale

ENGLEDOW AND McLEAN
MEIEN PROPERTY
CACHE COUNTY, UTAH
DMEA-3140
Manganese

Engineering Report

By W. N. Yeung
Mining engineer
Bureau of Mines

Reviewed by
DMEA OPERATING COMMITTEE

10-30-53
(date)

ENGLEDOW AND McLEAN
NALEN PROPERTY
CACHE COUNTY, UTAH

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ILLUSTRATIONS

Fig. 1 Location map, Nalen property, Cache County, Utah

INTRODUCTION

The Nelan manganese property owned by M. F. Engledow and C. B. McLean was examined on September 29, 1953. The examination was made by a geologist of the Geological Survey and an engineer of the Bureau of Mines in company with Mr. Engledow and Mr. McLean in response to a request of the Field Team, DMEA, Region IV. An application for a loan for assistance in exploration of the property had been made by the above partners.

LOCATION, TOPOGRAPHY AND PHYSICAL FEATURES

The property is situated in the La Plata mining district, Gasha County, Utah. The specific location is Sec. 13, T. 8 N., R. 1 E., S.L.B. & M. (fig. 1). The area is reached by traveling north from Liberty, Utah, 7 miles over a county road and east 2 miles over an unimproved mountain road. The topography is rolling, mountainous country with elevations above 6,500 feet.

OWNERSHIP AND EXTENT

The property consists of three unpatented mining claims held by right of location by Mr. Engledow and Mr. McLean. The claims are laid out end to end along a gently sloping ridge. Deep overburden and thick brush cover most of the area.

DESCRIPTION OF THE DEPOSIT

The rocks of the area are metamorphosed quartzites and schists of probable Cambrian or pre-Cambrian age. Occurrences of manganese

mineralization are seen in a few boulders of brecciated quartzite. A sample taken from one assayed 6.5 percent manganese and 74.4 percent SiO_2. Manganese and iron staining is prevalent in some strata, as it is in many areas of similar rock outcrops. No structure worthy of development is discernible in the area. Manganese mineralization appears to have been introduced into brecciated quartzite in a faulted zone. Sparse float indicates the occurrence likely is small.

No intrusive rocks were seen in the area.

PROPOSED EXPLORATION

The applicants propose to spend $2,400 in bulldozer work searching for workable manganese ore. Drifting in the occurrence is also proposed at a cost of $2,600. The total loan requested is $5,000.

CONCLUSIONS AND RECOMMENDATIONS

It is concluded that evidence of manganese mineralization is not sufficiently strong to justify the requested loan. It is recommended that the loan application be denied.

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

DEPARTMENT OF THE INTERIOR
Bureau of Land Management
RECEIVED
OCT 26 1953

224 New Customhouse
Denver 2, Colorado

October 21, 1953.

Memorandum

To: Administrator, Defense Minerals Exploration Administration
Attention: 200

From: Field Team, Region IV

Subject: Report of Examination - DMEA Docket 3140 (Manganese), Engledow and McLean, Helen Claims, Cache County, Utah.

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

John F. Shaw
For W. H. King

A. H. Koschmann

Enclosures

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Mining Division
Region IV

October 21, 1953.

Memorandum

To: Field Team, Region IV

From: Chief, Mining Division, Region IV

Subject: Report of Examination - DMEA Docket 3140 (Manganese), Engledow and McLean, Helen Claims, Cache County, Utah.

Enclosed are nine copies of the Engineering Report on the subject docket.

The applicants requested $5,000.00 to build a road and explore the property. No clear-cut description of the proposed work was given by the applicants.

The engineer examiner concludes that evidence of manganese mineralization is not sufficiently strong to justify Government participation and he recommends that the application be denied.

We concur in this recommendation.

John F. Shaw
John F. Shaw
For W. E. King

Enclosures

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
1600 EAST FIRST SOUTH STREET
SALT LAKE CITY 1, UTAH

October 16, 1953

Memorandum

To: W. H. King, Executive Officer, DMEA Field Team, Region IV

From: Chief, Minerals Development Branch, Mining Division, Region IV

Subject: Docket No. DMEA 3140 (Manganese), Engledow and McLean, Cache County, Utah

Attached are nine copies of an engineering report covering examination of the subject property by W. E. Young. Also included are three copies each of forms 6-993 and 6-803. The original brochure is also attached.

Manganese mineralization on the subject property is found in a brecciated zone in Cambrian or pre-Cambrian quartzite. There are no ore reserves and the property appears to have little significance for production of manganese. The examining engineer recommends the requested DMEA loan be denied. I concur in this recommendation.

Stephen R. Wilson
Stephen R. Wilson

Enclosures

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

October 5, 1953

Memorandum

To: DMEA Field Team, Region IV

From: A. H. Koschmann

Subject: DMEA Docket 3140, Engledow and McLean, Helen Claims, Cache County, Utah

Enclosed are 9 copies of the geologic report by C. G. Tillman of the U. S. Geological Survey covering the above docket.

It has been recommended that the loan be denied.

A. H. Koschmann
Supervising Geologist
Colorado-Wyoming

Enclosures (9)

Room 206 - 222 So. West Temple
Salt Lake City 1, Utah
October 1, 1953

Memorandum

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

From: C. G. Tillman, for R. J. Roberts
Utah-Nevada District Office

Subject: DMEA Docket 3140, Engledow and McLean, Helen Claims, Cache County, Utah.

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Engledow and McLean applied for a DMEA loan to aid in the exploration for manganese ore on their claims in Cache County, Utah.

Manganese minerals on the Helen Claims are found staining quartzite fragments and coating the walls of cracks in a narrow zone of breccia in Cambrian or pre-Cambrian quartzite.

Because of the extremely small tonnage and low grade of the manganese-bearing breccia and small possibility of discovering larger deposits on these claims by additional exploratory work it is recommended that the applicants' request for a DMEA loan be denied.

R. J. Roberts

By _____
C. G. Tillman

CGT/rs
Enclosures - 2
1. Geologic report (9 copies)
2. Brochure

UNITED STATES
DEPARTMENT OF THE INTERIOR
DOUGLAS McKAY, SECRETARY

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION IV

Engledow-McLean Company, DMEA Docket 3140 (Manganese)

Cache County, Utah

By

C. G. Tillman
U. S. Geological Survey

October 1, 1953

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ILLUSTRATIONS

Fig. 1 - Index Map of Utah

GEOLOGIC REPORT

ENGLEDOW-McLEAN COMPANY

DMEA DOCKET 3140 (MANGANESE)

CACHE COUNTY, UTAH

Introduction

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Location and accessibility

The Helen Nos. 1, 2, and 3 claims are in section 13, 14, 23, or 24, T. 8 N., R. 1 E., SLB&M, Cache County, Utah and may be reached by driving north 15.3 miles on Utah State Highway 162 from its junction with Utah State Highway 39 at the Pineview Reservoir in Ogden Canyon; thence 2 miles east on a bulldozed access road to Mill Creek (fig. 1). The claims lie on the slope several hundred feet above the road.

History and production

The property is covered by three claims; the Helen Nos. 1, 2 and 3 located end to end in a more or less east-west direction.

There has been no production from these claims.

Geology and Ore Deposits

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Soil covers most of the area to a depth of two or three feet and rock outcrops are not abundant.

There are no ore reserves on the claims.

Proposed Exploration

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Recommendations

As the tonnage and grade of manganese exposed or likely to be exposed by additional work is not significant, it is recommended that the applicants' request for an exploration loan be denied.

U.S. DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

DEFENSE MINERALS EXPLORATION ADMINISTRATION
DOCKET NO. 3140

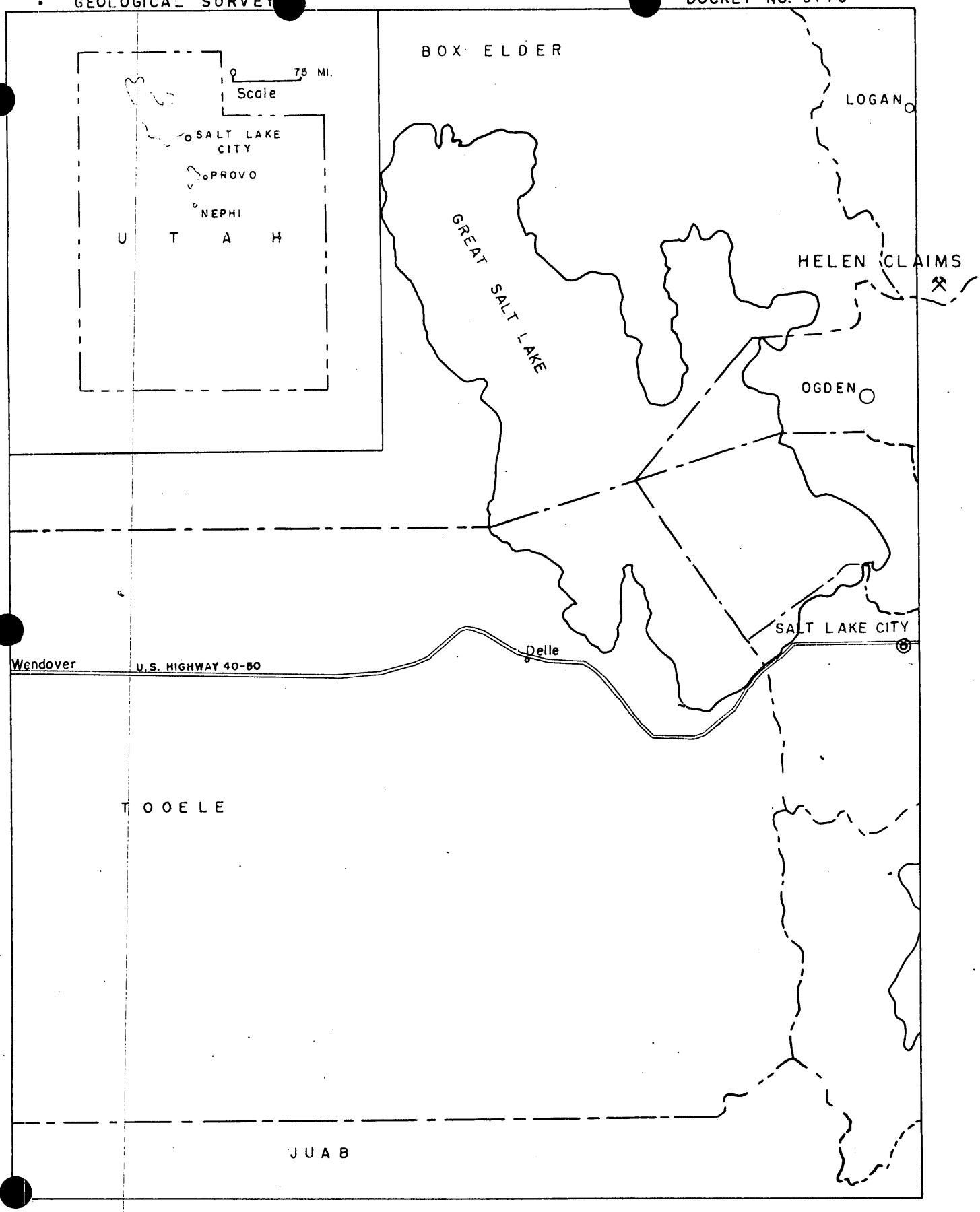

FIG. 1

INDEX MAP OF UTAH

0 8 16 24 MILES
Scale

ENGLEDOW AND McLEAN
HELEN PROPERTY
CACHE COUNTY, UTAH
DMEA-3140
Manganese

Engineering Report

By W. E. Young
Mining engineer
Bureau of Mines

ENGIEDOW AND McLEAN
HELEN PROPERTY
CACHE COUNTY, UTAH

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ILLUSTRATIONS

Fig. 1 Location map, Helen property, Cache County, Utah

INTRODUCTION

The Helen manganese property owned by M. F. Engledow and C. B. McLean was examined on September 29, 1953. The examination was made by a geologist of the geological Survey and an engineer of the Bureau of Mines in company with Mr. Engledow and Mr. McLean in response to a request of the Field Team, DMEA, Region IV. An application for a loan for assistance in exploration of the property had been made by the above partners.

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OWNERSHIP AND EXTENT

The property consists of three unpatented mining claims held by right of location by Mr. Engledow and Mr. McLean. The claims are laid out end to end along a gently sloping ridge. Deep overburden and thick brush cover most of the area.

DESCRIPTION OF THE DEPOSIT

The rocks of the area are metamorphosed quartzites and schists of probable Cambrian or pre-Cambrian age. Occurrences of manganese

mineralization are seen in a few boulders of brecciated quartzite. A sample taken from one assayed 6.5 percent manganese and 74.4 percent SiO_2. Manganese and iron staining is prevalent in some strata, as it is in many areas of similar rock outcrops. No structure worthy of development is discernible in the area. Manganese mineralization appears to have been introduced into brecciated quartzite in a faulted zone. Sparce float indicates the occurrence likely is small.

No intrusive rocks were seen in the area.

PROPOSED EXPLORATION

The applicants propose to spend $2,400 in bulldozer work searching for workable manganese ore. Drifting in the occurrence is also proposed at a cost of $2,600. The total loan requested is $5,000.

CONCLUSIONS AND RECOMMENDATIONS

It is concluded that evidence of manganese mineralization is not sufficiently strong to justify the requested loan. It is recommended that the loan application be denied.

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

224 New Customhouse
Denver 2, Colorado

August 7, 1953.

Memorandum

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

From: Executive Officer, DMEA Field Team, Region IV

Subject: Docketing for Exploration Assistance

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

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

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

John F. Shaw
For W. H. King

Enclosures

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

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-3140
Metal or Mineral
Date Received 8/10/53
Estimated Cost
Participation (Government %)

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: Morkle F. Englebow
Box 243 RFD 1 - Ogden Utah.
Carl E. McKenna
Box 103 - Roy 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 [illegible]

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

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

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

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

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

4. *Physical description.*—(*a*) Describe in detail any mining or exploration operations which have been 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.

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

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

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

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

5. *The exploration project.*—(*a*) State the mineral or minerals for which you wish to explore Manganese

(*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 7 days when funds are available and be completed within 22 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)?

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

☐ Money ☐ Use of equipment owned by you ☐ Other

Explain in detail on acompanying paper.

CERTIFICATION

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

Dated July 25, 1953

Marfele F. Engledow (Applicant)

By Carl B. M. Lean

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

COPY

4. Physical Description

Claims are fissure veins. Approximately 12 to 20 feet wide.

Running length of claims approximately 4500 feet, bordered by quartz on hanging wall.

Contour gently rolling. Mine to be operated by open pit. There has been some excavating done on vein by crosscutting several times. No geological estimate but grade analized shows 22% to 40% M. N. content.

Road from mine to county highway approximately 2 miles to be built. Approximately 14 miles from mine to shipping point.

E. Sufficient water for milling, available manpower and equipment can be obtained.

6. Estimated cost approx. $5000.

200 hours dozer at $12 per hour $2400
Compressor, drills & labor — $8.00 per hour - 100 hours, approx. $800
Misc. $1300. Quarters, supplies, powder and powder man

7. We, as partners, will donate our time and labor and other equipment we feel necessary to further operations.

ROOM 13, POST OFFICE BLDG.
KNOXVILLE 2, TENN.

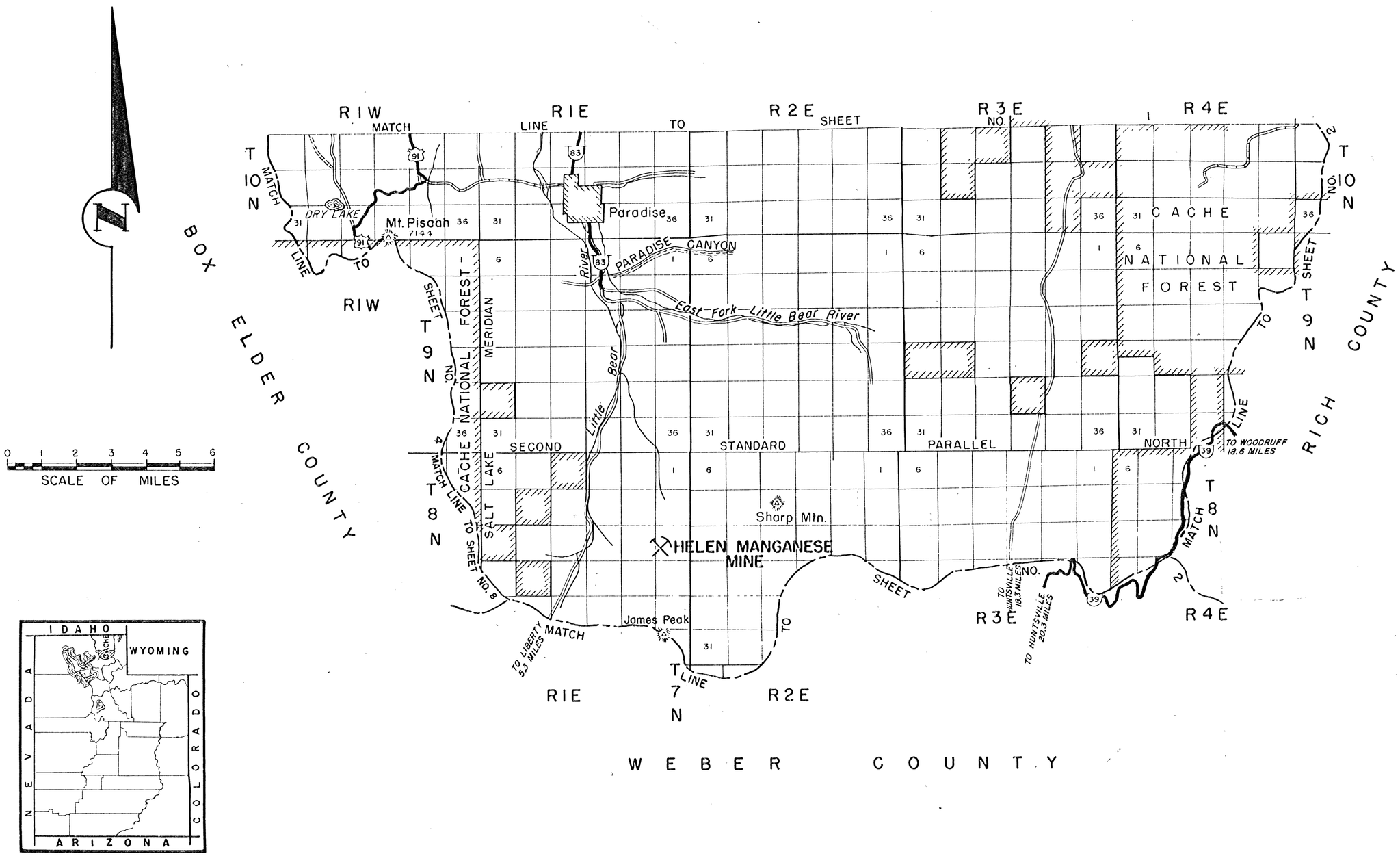
UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS
EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C.

OFFICIAL BUSINESS

PENALTY FOR PRIVATE USE TO AVOID
PAYMENT OF POSTAGE, $300
(PMGC)

KNOXVILLE
JUL 30
5:30PM
1953
TENN.

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

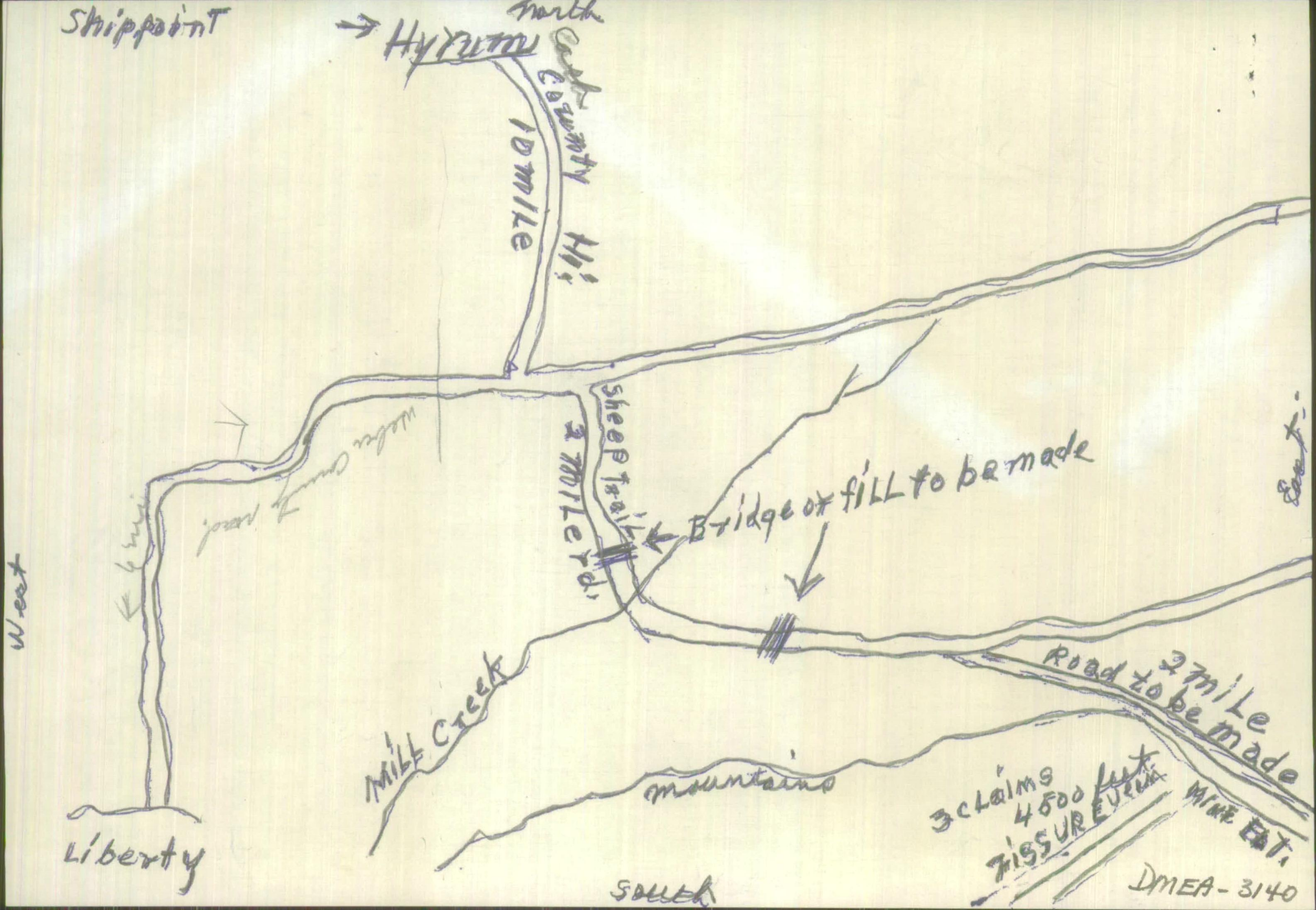


U.S. DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Fig. 1 DMEA Docket No. 3140

STATE: UTAH
COUNTY: CACHE
Sheet: 2 of 2
Location Map

ENGINEER: *W. E. Young*	DATE: OCT. 6, 1953
TRACED: OCT., 1953, BY: A.P.T.S.	300 - 107 - C
CHECKED:	


Shippoint
→ Hyrum
North
County Hy
10 mile
Sheep Trail
3 mile rd.
Bridge or fill to be made
Road to be made
3 mile
Mill Creek
mountains
3 claims
4500 ft
FISSURE EUREKA
MINE Est.
Liberty
West
East
SOLDIER
DMEA-3140