DMEA Form 9

UNITED STATES
DEPARTMENT OF THE INTERIOR
Defense Minerals Exploration Administration

OFFICIAL DOCKET FILE

DMEA NO. 4706

Application (Denied ✓
(~~Withdrawn~~
(After disposition, delete items not applicable)

Contract (Terminated - not Certified
(Cancelled
(Terminated - Certified
(Royalty Agreement

This is the official contract file containing all official records of the project. The records contained in the files are checked and are arranged in this order:

Left Side

Interim Royalty Audits
Reports of Royalty Review
Certification of Discovery
Certificate of Audit (Final)
Interim Audit(s)
Report of Review
Termination Notice or Agreement
Recision Notice
Assignment of Contract
Contract Amendments (latest on top)
Contract with all exhibits and annexes
Owner's Consent to Lien
Subordination Agreement
Leases and assignments of leases
✓Application and attachments
(3) Envelope for maps

Right Side

Project summary
Work completed analysis
All other material is filed in chronological order with correspondence including the following reports as checked:

Final Field Team Report (Tab)
Operator's Final Report
(2R) Interim Reports
(2R) Operator's monthly reports and all attachments (latest on top)
On-site Exam Report(s) (Tab) ✓
(4) Settlement Sheets

When the volume of records is expected to warrant additional folders, or when convenience of reference warrants separate folders for certain records, they should be set up in this order:

Left Side

Folder No. 2: (In chron. order)
Interim Summary Reports by W. O. Engineers

Right Side

Operator's Semi-Annual Report for Certified Project, Field Team Interim Reports, Operator's Monthly Report with transmittal, narrative, maps, and Field Team review.

Folder No. 3: Maps (Use pocket folder or envelope. Fold maps with title block out and show reference to related document or correspondence.)

Folder No. 4: Settlement Sheets

Folder No. 5: Drill Logs

9775

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

OFFICIAL FILE COPY
DMEA
RECEIVED APR 1 1957

DATE	INITIALS	CODE
	DMEA	

224 New Customhouse
Denver 2, Colorado

March 29, 1957

Memorandum

To: Secretary to the Operating Committee, DMEA

From: DMEA Field Team, Region III

Subject: Application for DMEA Aid (Manganese) B. E. Burnaugh (Triad Mining Group) Daggett County, Utah

Enclosed are the original and two copies of the subject application. One copy of the application is being retained in our file.

The applicant proposes to explore an unspecified target area by 100 feet of drifting and 400 feet of drilling, estimated costs for which are unspecified.

Before a field referral; therefore, we suggest that the applicant first submit some evidence of the presence of minerals warranting exploration on the property, as well as claim maps, proposed program, cost estimates and other pertinent information necessary to process an application.

E. N. Harshman

By E. N. Harshman
Acting Executive Officer

Enclosures

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

RECEIVED APR 1 1957 D.M.E.A.

DMEA
DEPARTMENT OF THE INTERIOR
MAR 28 1957
REGION III
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. 4706
Metal or Mineral Manganese
Date Received 4-1-57
Estimated Cost None Given
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: B. E. Burnaugh
Box 550,
Green River, Wyoming

(*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 8 claims running east and west in the Dakota Formation; in the North Half of the North Half of sections, 25 - 26 - 27 - 28 in Township 3 North, Range 20 East, in Daggett County, Utah: Tie-in is 1020 ft. from NW corner of claim # 8 to fence corner.

(*b*) State any mine name by which the property is known. Triad Mining Group 1-2-3-4-5-6-7-8

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

(*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. #1-Book 4 P.122-123, #2-P.124-125, #3-P.126-127, #4-P.128-129, #5-P.130-131, #6-P.132-133, #7-P.134-135, #8-P.136-137; (Book 4)

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. Several pits & drifts,

(*b*) State past and current production, and ore reserves, if any, giving quantities and grades. No production,

(*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. Contact Metamorphic; indicates layered Mn deposit,

(*d*) State the facts with respect to the accessibility of the project: Access roads, distances to shipping, supply and residence points. Road made to claims; location is 54 mi. from Green River, Wyo.

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

Manpower, materials, supplies, equipment, are plentiful; water and power located from 1 to 2 miles distance.

16—66551-1

5. *The exploration project.*—(*a*) State the mineral or minerals for which you wish to explore Manganese, Tungsten, Rare Earths, Beryllium, (Helvite deposit)

(*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. Wish advice of the Bureau of Mines on examination,

(*c*) The work will start within 45 days and be completed within 6 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. Wish to contract,

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.). 100 ft. of drifting, 400 ft. of drilling;

(*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?

[X] 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 March, 26, 1957

B. E. Burnaugh
(Applicant)

By

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

7393

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
	Chapman	400
7/26	Martin	130
7/26	Lamb	130
7/26	Kiilsgaard	130
"	Jones	110
"	Mittendorf	100
		225

JUL 26 1957

Mr. B. E. Burnaugh
Box 550
Green River, Wyoming

Re: Docket No. DMEA-4706 - Manganese
Triad Mining Group
Daggett County, Utah

Dear Mr. Burnaugh:

Your application for exploration assistance and other data available to us in Washington concerning the referenced property 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 of the National Defense Program.

Careful study of all our information, although noting the occurrence of manganese mineralization on your property, indicates to us that the probability of disclosing significant ore reserves is not sufficiently promising to justify Government participation. Under these conditions we regret to advise you that your application is denied.

We wish to thank you for your interest in the Defense Minerals Exploration Administration program and for bringing this property to our attention.

Sincerely yours,

C. O. Mittendorf

Administrator

TLChapman:esf - 7/24/57
cc to: Docket
Code 400
Admr. Read. File
Oper. Comm.
FT REG III
Messrs. G. DeHuff, Jr., USBM
T. Kiilsgaard, USGS

8623

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
	Chapman	400
	Martin	110
		100
		225

July 24, 1957

MEMORANDUM

To: Administrator

From: Division of Iron and Ferro-Alloys

Subject: Denial of the subject application for exploration assistance in the amount of $3,800.00
Docket No. DMEA-4706, Manganese
B. E. Burnaugh
Daggett County, Utah

Denial of the subject application is recommended by this Division based on the following information:

The applicant, B. E. Burnaugh, requested exploration assistance in the amount of $3,800.00 on March 26, 1957, and in a supplementary sheet of April 14, 1957, in answer to our questionnaire of April 9, 1957. The work requested was for diamond drilling and drifting. A field examination of the property was made on June 7, 1957, by F. B. Moore, accompanied by the applicant, Mr. B. E. Burnaugh.

Applicant: B. E. Burnaugh
Box 550
Green River, Wyoming

Property Ownership: The Triad group of claims owned by the applicant consists of 8 unpatented lode mining claims in sections 25, 26, 27 and 28, T. 3 N., R. 25 E., S.L.B.&M., and are recorded as follows:

Name of Claim	Book No.	Page No.
Triad Mining Group 1	P	122-123
Triad Mining Group 2	P	124-125
Triad Mining Group 3	P	126-127
Triad Mining Group 4	P	128-129
Triad Mining Group 5	P	130-131
Triad Mining Group 6	P	132-133
Triad Mining Group 7	P	134-135
Triad Mining Group 8	P	136-137

Geology: Small amounts of manganese oxide occur in the Dakota formation in the gravel beds of this area. The Dakota in this area consists of medium-grained sandstone with some

conglomerate and forms a small ridge or hogback. Underlying the Dakota, the Morrison shales and sandstones form a valley with poor exposures. The presence of small northwest trending faults is suspected, but no apparent displacement of the beds can be seen.

The deposits consist of small lenses and pods of unidentified manganese oxides. In pit 3, a 20 foot cut, pods of black manganese oxide are distributed irregularly in a layer several feet thick. Individual pods are generally less than 1 foot in diameter.

Development:

Existing workings consist of several small prospect pits and a 20-foot side-hill cut.

Ore Values and Tonnage:

Two channel samples and one grab sample assayed 0.29 to 0.50 percent manganese. Samples for other elements which the applicant hoped to find: tantalum, beryllium, cobalt, scandium and yttrium, gave negative results.

The property has no showings of ore of minable grade.

Proposed Work:

The proposed work consists of 400 feet of diamond drilling and 100 feet of drifting.

Comments and Conclusions:

The Field Team concludes that while minor occurrences of manganese oxides occur in the Dakota formation on the subject claims there is lack of geologic evidence pointing to possible increase in size or grade and recommends that the application be denied.

The Commodity Divisions of the Geological Survey and the Bureau of Mines concur in the conclusions and recommendations of the Field Team.

W S Martin

W. S. Martin, Director
Division of Iron and Ferro-Alloys

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DATE	INITIALS	CODE
7/24	C	220
7/24	WSM	400
	W. S. Martin, DMEA	

Date July 22, 1957

DMEA Docket No. 4706
DMEA Contract No.
Commodity Manganese-beryllium (Helvite)
Name of applicant B. E. Burnaugh
Name of property Triad Group
Location of property Daggett Co., Utah
Estimated cost of project None given

Through: Chief, Br. of Ferrous Metals and Ferroalloys

From: G. L. DeHuff, Jr. Commodity Specialist, Br. of Ferrous Metals & Ferroalloys

Subject: Review of Field Team Report
(Exploration Work Item Report No.)

1. Date of subject item rec'd: 7/3/57 2. Date received by reviewer: 7/17/57

3. Previous data on this property known to reviewer: Yes [ ] No [X]

4. Other reports on mining operation known to reviewer: Yes [X] No [ ]

5. Information available on past production: Yes [ ] No [X]

6. Other pertinent factors known to reviewer: Yes [ ] No [ ]

7. Explain items marked yes above: Please see my memorandum of April 11, 1957

8. Factors meeting special consideration:
- a. Location [ ]
- b. Ownership [ ]
- c. Evidence of mineralization
- d. Geology [ ]
- e. Proposed exploration method [ ]
- f. Alternate exploration method [ ]
- g. Costs [ ]
- h. _____ [ ]

9. Action revised:
- a. Obtain information from applicant [ ]
- b. Refer to Field Team [ ]
- c. Denial [X]
- d. Agree with Field Team [X]
  - i. Consult with Mr. _____ at _____ AEC office.
- e. Disagree with Field Team [ ]
- f. Suggest alternate plan [ ]
- g. Request another examination [ ]
- h. Approval [ ]

10. Remarks: (Use back of page if necessary)

I concur with the Field Team's recommendation that subject application be denied.

G L DeHuff Jr.

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

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DMEA
IN REPLY REFER TO:
RECEIVED JUL 10 1957

DATE	INITIALS	CODE
7/10	P.K.	220
	WSM	400

July 9, 1957

Re: DMEA 4706
B. E. Burnaugh
Triad Mining Group
Daggett County, Utah
No Estimate - Manganese

Memorandum

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

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

Subject: Review of Field Team Report

In a most incomplete document, the applicant requested assistance in exploring a contact metamorphic manganese deposit.

The examiner found only small amounts of low grade manganese oxide in pods in Dakota sandstone, and no significant amounts of the other minerals claimed by the applicant to be present, that is, beryl, cobalt, tantalum, scandium and yttrium.

In view of the size, frequency, and grade of the pods of manganese oxide, and the lack of other minerals of economic interest, the examiner and the Field Team recommend that the application be denied.

I concur with the recommendation.

N. E. Nelson

N. E. Nelson

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

224 New Customhouse
Denver 2, Colorado

July 3, 1957

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RECEIVED JUL 8 1957

DATE	INITIALS	CODE
7/8	C	220
		130
7-11	C	220
7/11	WSM	400
DMEA		

Memorandum

To: Secretary to the Operating Committee,

From: DMEA Field Team, Region III

Subject: Docket DMEA 4706 (Manganese) B. E. Burnaugh (Triad Mining Group) Daggett County, Utah - Geological Report of Examination

Enclosed are the original and two copies of the Geological Report of Examination on the subject property by Frank Moore, USGS.

The field examiner concludes that the probability for making a significant discovery is not sufficiently promising to justify Government participation. Accordingly, he recommends that the Applicant's work proposal be denied to which the Field Team concurs.

The Field Team calls your attention to the fact that the Bureau of Mines did not participate in the examination.

W. H. King
Executive Officer

Reviewed by
DMEA OPERATING COMMITTEE
7-10-57
(date)

IN REPLY REFER TO:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Defense Minerals Exploration Administration
DMEA Denver Federal Center
DEPARTMENT OF THE INTERIOR Denver, Colorado

JUL 2 1957
REGION III
DENVER, COLORADO

June 28, 1957

TRANSMITTED
JUL 3 1957

Memorandum

To: Executive Officer, DMEA Field Team, Region III

From: E. N. Harshman

Subject: DMEA Docket 4706 (Manganese), B. E. Burnaugh (Triad Mining group), Daggett County, Utah

Enclosed are the original and eight copies of a geologic report on the subject property by Frank Moore, U. S. Geological Survey.

An examination of the property failed to find significant amounts of manganese or any other of the metals claimed by the applicant to be associated with the Dakota sandstone beds cropping out on the claims.

Moore recommends that the application for exploration assistance be denied. I concur with this recommendation.

Original signed by
E. N. HARSHMAN

E. N. Harshman
Member, Field Team

Enclosures (9)

ENHarshman:mp

Reviewed by
DMEA OPERATING COMMITTEE
7-10-57
(date)

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RECEIVED JUL 8 1957

DATE	INITIALS	CODE
		130 HB
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FOR UNITED STATES GOVERNMENT USE ONLY

TRANSMITTED

JUL 3 1957

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

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION III

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DMEA 4706

B. E. Burnaugh

Triad mining group

Daggett County, Utah

Manganese

Geological Report

by

Frank Moore, Geologist
Geological Survey

Reviewed by
DMEA OPERATING COMMITTEE
7-10-57
(date)

June 28, 1957

CONTENTS

	Page
Introduction and summary	1
Geology	2
Conclusions and recommendations	4

ILLUSTRATIONS

Figure	Follows page
1. Index map of Utah showing location of the Triad mining group, Daggett County. DMEA 4706	1
2. Photogeologic map of the Triad mining group area, Daggett County, Utah. DMEA 4706	1

DMEA
RECEIVED
DATE

DMEA 4706

B. E. BURNAUGH
TRIAD MINING GROUP
DAGGETT COUNTY, UTAH

INTRODUCTION AND SUMMARY

B. E. Burnaugh, Box 550, Green River, Wyoming, applied on March 26, 1957, for DMEA assistance to explore for manganese and beryllium on the Triad mining group of claims, Daggett County, Utah. The property was examined June 7, 1957, by F. B. Moore, Geological Survey, in company with Mr. Burnaugh.

The Triad group consists of eight unpatented claims in the north half of the north half of secs. 25, 26, 27, and 28, T. 3 N., R. 25 E., S.L.B.M. The property lies about 50 miles south of Green River, Wyoming, the nearest railhead and supply point (fig. 1). The property can be reached by driving east from Manila, Utah, on Utah State Highway 43, turning south (right) on a dirt road at 3.1 miles, and following the dirt road for 3.4 miles to pit 3 (fig. 2). Existing workings consist of several small prospect pits and a 20-foot side-hill cut. No ore has been produced from the property.

The deposits occur as small lenses and pods of low grade manganese oxide in the Dakota formation.

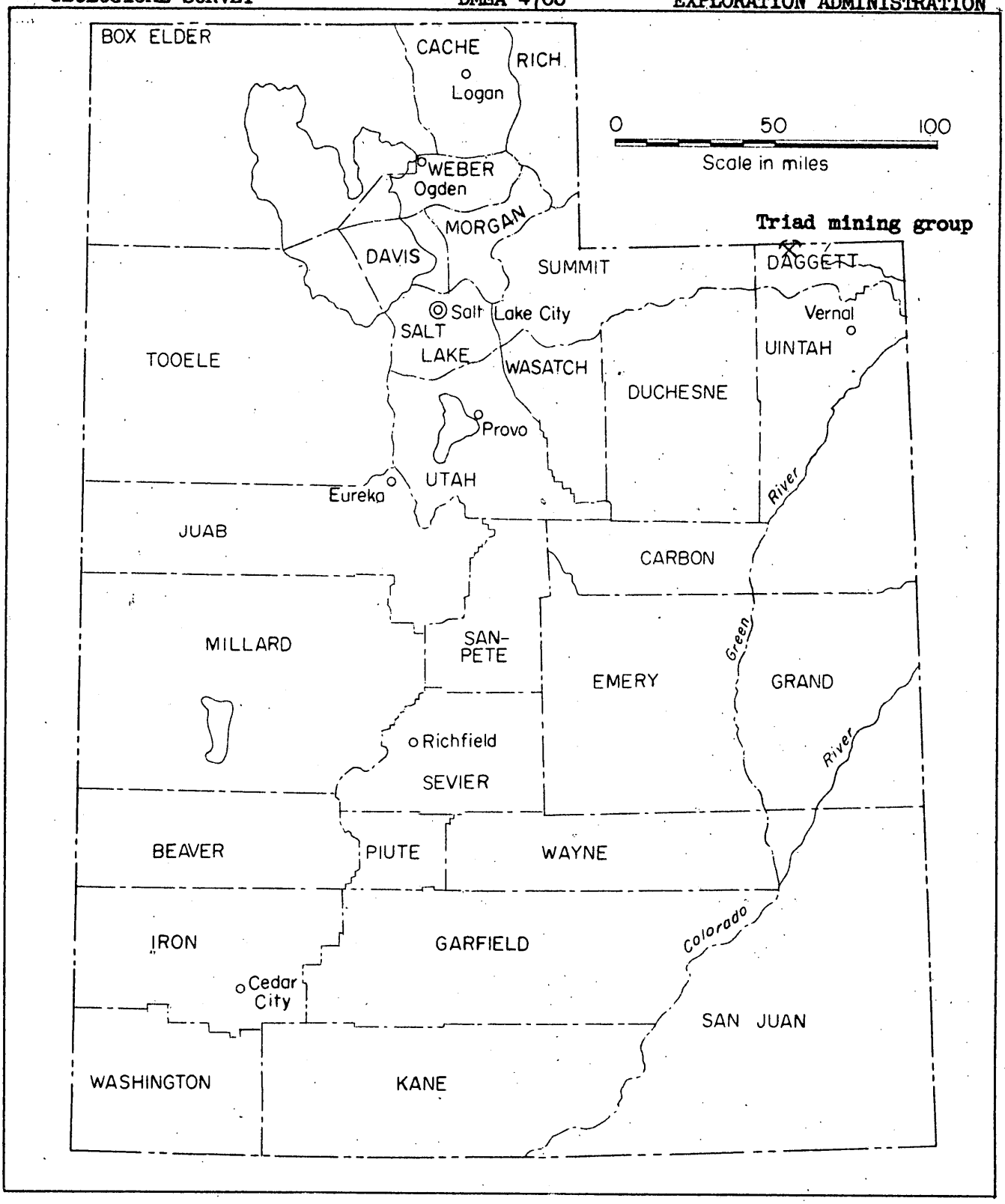
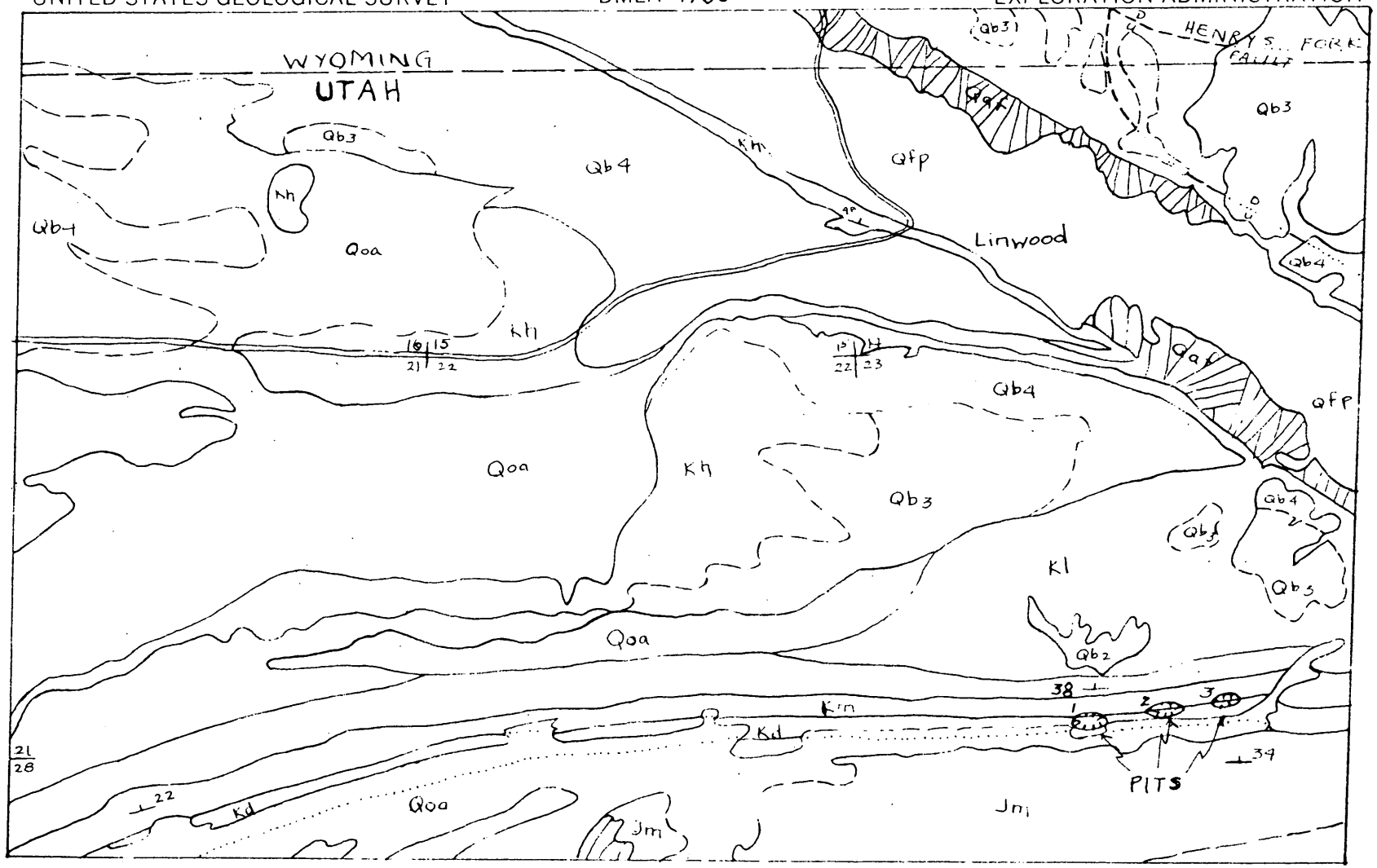


FIGURE 1—INDEX MAP OF UTAH **SHOWING LOCATION OF THE TRIAD MINING GROUP, DAGGETT COUNTY**

DEPARTMENT OF THE INTERIOR
UNITED STATES GEOLOGICAL SURVEY

EXAMINATION REPORT
DMEA 4706

PREPARED FOR
DEFENSE MINERALS
EXPLORATION ADMINISTRATION



SCALE 1" = 2000'

FROM PHOTOGRAPH FURNISHED BY APPLICANT

FIGURE 2 - PHOTOGEOLOGIC MAP OF THE TRIAD MINING GROUP AREA, DAGGETT COUNTY, UTAH

OFFICIAL FILE COPY
D M E A
RECEIVED JUL 8 1957

DATE	INITIALS	CODE

Because there is no geologic evidence to indicate the presence of a significant deposit of manganese on the Triad mining group, it is recommended that the application be denied.

GEOLOGY

Small amounts of manganese oxide occur in the Dakota formation and in gravel beds at the Triad mining group. The Dakota at the property consists of medium-grained sandstone with some conglomerate and forms a small ridge or hogback. The base of the formation is not exposed. Underlying the Dakota, the Morrison shales and sandstones form a valley with poor exposures. Stratigraphically above the Dakota, the Mowry shale slopes moderately downward to a 20- to 30-foot flat behind the hogback.

The beds strike approximately east-west and dip 40° north. Two major east-west thrust faults, the Uinta and the Henry's Fork, are present 6 miles south and 1-1/2 miles north, respectively. The presence of small northwest-trending faults is suspected in the area, but no apparent displacement of the beds can be seen.

The deposits consist of small lenses and pods of unidentified manganese oxides. Pit 3 is a 20-foot cut in gravel above the Dakota formation. Pods of black manganese oxide are distributed irregularly in a layer several feet thick. Individual pods are generally less

than 1 foot in diameter. The gravel at the pit is heavily stained with limonite which also cements the material loosely. A 2-foot channel across a manganese-stained zone assayed 2.9 percent MnO. A 1-foot channel across a hard red sandstone just below the gravel was taken for possible beryllium and cobalt content as claimed by the applicant. The beryllium content of the sample is less than 0.003 percent, and the cobalt content is less than 0.001 percent. Pit 2 is dug on a dark-colored, irregular lens in a medium-grained light-colored arkosic sandstone. The lens has been followed for about 5 feet. A 2-foot channel across the lens assayed 0.7 percent MnO. A grab sample of representative material assayed 0.5 percent MnO. No manganese minerals were identified in this material under a binocular microscope. Pit 1 consists of several small excavations 10 to 15 feet apart. Pit 1a contained small (1 inch or less) limonite veinlets in a fine-grained, red and iron-stained sandstone. Pit 1b contained a 4-inch red sandstone rib in gray shale. A 1 percent tantalum assay was claimed by the applicant in material similar to the sandstone somewhere in pit 1. A grab sample representing the entire width of the sandstone contained no tantalum. A qualitative test for scandium and yttrium was made on material from pit 3 because of the applicant's claim. There was no scandium or yttrium present.

CONCLUSIONS AND RECOMMENDATIONS

Minor amounts of manganese oxides occur in the Dakota formation on the Triad mining group of claims. The presence of beryllium, tantalum, scandium, and yttrium as suspected by the applicant could not be confirmed by assay for beryllium, cobalt, and tantalum or qualitative spectrographic analyses for scandium or yttrium.

Because of the small size and low grade of the manganese occurrences and the lack of geologic evidence pointing to possible increase in size or grade, it is recommended that the application be denied.

DMEA
DEPARTMENT OF THE INTERIOR
MAY 8 - 1957
REGION III
DENVER, COLORADO

DMEA
DEPARTMENT OF THE INTERIOR
MAY 8 - 1957
REGION III
DENVER, COLORADO

May 7, 1957

Memorandum

To: S. R. Wilson

From: Superintendent, Denver Experiment Station, Reg. III

Subject: Docket DMEA 4706 (Manganese) B. E. Burnaugh (Triad Mining Group) Daggett County, Utah

Enclosed please find the application for B. E. Burnaugh Docket DMEA 4706, which was received in this office on May 7, 1957.

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

W. H. KING

W. H. King

Enclosure

cc: Acting Executive Officer (3)
E. H. Barshaw (2)
J. B. Clemmer

OFFICIAL FILE COPY
DMEA
RECEIVED MAY 13 1957

DATE	INITIALS	CODE
5-13		
5/13	NSM	220
		400

WO (2)

OFFICIAL FILE COPY
DMEA
RECEIVED MAY 8 1957

DATE	INITIALS	CODE
5-8	C	220
5/8	WSM	400

224 New Customhouse
Denver 2, Colorado

May 6, 1957

Memorandum

To: W. H. King, E. N. Harshman } W/enclosures, Items 1-5, Below

From: DMEA Field Team, Region III

Subject: Docket DMEA 4706 (Manganese) B. E. Burnsugh (Triad Mining Group) Daggett County, Utah

Enclosed is the following material relating to the subject docket.

1. Copy of application for Government assistance in exploration work under the DMEA program.
2. Memorandum of Review by C. L. DeHuff, Jr., USBM.
3. Memorandum of Review by N. E. Nelson, USGS.
4. Letter of transmittal of the foregoing to this office, dated May 2, 1957, from the Chairman, Operating Committee, DMEA.
5. Routing Control Sheet

A field examination of the property and a joint report of findings and recommendations pertaining to the Applicant's work proposal are requested.

We will forward the correspondence referred to in the last paragraph of the Chairman's letter as soon as it is received here in this office.

If the field examiners recommend Government participation in the proposed exploration program, please submit twelve extra copies of each map used in the joint report which show the land to be subordinated and the location and extent of recommended work, relative to property boundaries.

The Bureau of Mines' copy of the application should be returned to this office with the joint report of examination. Mr. Harshman will forward the Survey's copy of the application to the Washington office.

E. N. HARSHMAN

E. N. Harshman
Acting Executive Officer

Enclosures

MHM:eh

cc: Sec. Op. Comm. (2)
Harshman
King
Docket
Chron.

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
		400
5/1	Mittendorf	100
5/2	C	200

MAY - 2 1957

Mr. B. E. Burnaugh
Box 550
Green River, Wyoming

Re: Docket No. DMEA 4706 - Manganese
Triad Mining Group
Daggett County, Utah

Dear Mr. Burnaugh:

On April 18, 1957, we received your reply to our letter of April 9, 1957, requesting further information. Your application for exploration assistance and the above-noted letter have been reviewed by the Iron and Ferro-Alloys Division of the Defense Minerals Exploration Administration and referred to Mr. E. N. Harshman, Acting Executive Officer, DMEA Field Team, Region III, 224 New Custom House, Denver 2, Colorado, for a field examination of the property.

Any assistance you can give the members of the Field Team will be appreciated.

Sincerely yours,

C. O. Mittendorf (for)

Administrator

8623

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
4-26	Chapman	400
4-26	Holt	400
5/1	Selbrede	130
1/11	Johnson	110
		100
		220

Mr. B. E. Burnaugh
Box 550
Green River, Wyoming

Re: Docket No. DMEA 4706 - Manganese
Triad Mining Group
Daggett County, Utah

Lamb
Kilsgaard

Dear Mr. Burnaugh:

On April 18, 1957, we received your reply to our letter of April 9, 1957, requesting further information. Your application for exploration assistance and the above-noted letter have been reviewed by the Iron and Ferro-Alloys Division, of the Defense Minerals Exploration Administration, and referred to Mr. E. N. Harshman, Acting Executive Officer, DMEA Field Team, Region III, 224 New Custom House, Denver 2, Colorado, for a field examination of the property.

Any assistance you can give the members of the Field Team will be appreciated.

Sincerely yours,

Administrator

TLChapman:am 4-26-57
cc to: Docket
Code 400
Admr. Read. File
Oper. Comm.
FT REG III
Messrs. G. DeHuff, Jr., USBM
T. Kiilsgaard, USGS

8623

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
4-26	Chapman	400
4-26	Hoff	400
5/1	Selfridge	130
"	Johnson	110
"	Matteudorf	100
		220

MAY - 2 1957

Mr. E. H. Marshman, Acting Executive Officer
DMEA Field Team, Region III
224 New Custom House
Denver 2, Colorado

Re: Docket No. DMEA 4706 - Manganese
B. E. Burnaugh
Triad Mining Group
Daggett County, Utah

Dear Mr. Marshman:

The above-docketed application for exploration assistance is being referred to your office for a field examination of the property.

Copies of memoranda dated April 4 and 11, 1957, by H. E. Nelson, Geological Survey, and G. L. DeHuff, Jr., Bureau of Mines, respectively, relating to the project are enclosed. Also enclosed are two extra copies of the application for the use of the Field Team.

On April 9, 1957, we wrote the applicant asking for more information. On April 18, 1957, we received a single copy reply that contained little extra information of value, but is being duplicated and will be sent to you, as a matter of record.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee (GCS)

APPROVED:

Frank D. Lamb (GCS)
Member, Bureau of Mines

Thor H. Kiilsgaard (GCS)
Member, Geological Survey

TLChapman:am 4-26-57
cc to: Docket
Code 400
Admr. Read. File
Oper. Comm.
FT REG III
Messrs. G. DeHuff, Jr., USBM
T. Kiilsgaard, USGS

Enclosure

P.S. Two copies of the duplicated material are enclosed.

8623

OFFICIAL FILE COPY
DMEA
RECEIVED APR 12 1957

DATE	INITIALS	CODE
4/12	C	220
4/12	WSM	400

April 11, 1957

4706

Mn - beryllium (Helvite)
B. E. Burnaugh
Triad group
Daggett Co., Utah
None given

W. S. Martin, DMEA

G. L. DeHuff, Jr., Commodity Specialist, Branch of Ferrous Metals and Ferroalloys

Application

3/26/57 ... 4/3/57

... You [ ] [x]

... You [x]

... You [ ] No [x]

... You [ ] No [ ]

... B/M R.I. 4731 describes work in 1941 on the Daggett Chief mn deposit, possibly 5 miles away or less (Sec.34,T3N,R19E, S.L.B.M.)

... considerations:
- Location [ ]
- Commodity [ ]
- Evidence of ... [X]
- Geology [ ]
- Proposed exploration method [X]
- Alternate exploration method [ ]
- Costs [ ]
- [ ]

... action required:
- Obtain ... from applicant [X]
- Refer to ... [ ]
- Denial [ ]
- Agree with ... [X]
- Disagree with ... [ ]
- Suggest alternate plan [ ]
- Request another ... [ ]
- Approval [ ]
- ... AMS office.

10) Remarks: (Use back of page if necessary) It is noted that applicant calls this a helvite deposit. Helvite is a complex manganese-beryllium silicate (3(Mn,Fe) Be SiO_4, MnS), which would appear to be of very doubtful value as a manganese ore. It is my understanding that helvite would not qualify for DMEA assistance on the basis of its beryllium content.

G L DeHuff Jr

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
4/8	Chapman	400
4/8	Martin	400
4/8	Selfridge	120
4/10	Johnson	110
	Mittendorf	100
4/10		220
		400

APR 9 - 1957

Mr. B. E. Burnaugh
Box 550
Green River, Wyoming

Re: Docket No. DMEA 4706 - Manganese
Triad Mining Group
Daggett County, Utah

Dear Mr. Burnaugh:

Reference is made to your request for exploration assistance on the above noted property. Review of your application indicates that in order to determine whether a field examination is justified we should have further information as follows:

1. A sketch map showing the approximate location of veins or beds on the claims, and points at which work has been done, with the extent of work and general structure and formation of the area.

2. On the sketch show areas of mineralization and points at which samples may have been taken.

3. If any channel samples have been taken send us assay results, stating in each case width of sample, since specimen or grab samples are generally of small value for our purposes.

4. Advise us whether the 400 feet of diamond drilling and 100 feet of drifting that you expect to do would require access road building, clearance of drill and tunnel sites, and if such work could be done with a bulldozer?

5. Provide an estimate of the total cost of the project, including cost of each type of work, such as supervision, bulldozing, diamond drilling cost per foot with size of hole, drifting cost per foot, estimating how much drift it might be necessary to timber.

If you require any assistance in providing us with such information please consult Mr. E. N. Harshman, Executive Officer, DMEA Field Team, 224 New Custom House, Denver 2, Colorado, or Stephen R. Wilson, Supervising Mining Engineer, DMEA Field Team, Region III, 1600 East First South Street, Salt Lake City 12, Utah.

Sincerely yours,

C. O. Mittendorf

Administrator

cc to: FT REG III
Messrs. G. DeHuff, USBM
T. Kilsgaard, USGS

TLChapman:am 4-8-57
cc to: Docket
Code 400
Admr. Read. File
Oper. Comm.

8623

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

OFFICIAL FILE COPY
DMEA
RECEIVED APR 5 1957

DATE	INITIALS	CODE
4/5	C	220
4/8	WSM	400

April 4, 1957
Re: DMEA 4706
B. E. Burnaugh
Triad Group
Daggett County, Utah
No estimate of cost - Manganese

Memorandum

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

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

Subject: Review of application.

The applicant in a most incomplete document requests assistance in exploring a contact metamorphic, layered manganese deposit. "Several pits and drifts" are mentioned but no particulars are given.

As recommended by the acting executive officer, the applicant should supply more and better information concerning the deposit and a work program should be outlined.

N. E. Nelson

N. E. Nelson

Dmea 4706

Township 3 N.
Range 20 E.

Location 1 - Siliciferous deposit; quartzite is hard containing iron oxides in the liquid or mineralizer state, hornfels present at the contact of the Dakota and Mowry formations. (location in dakota)

Location 2 - Siliciferous with calcareous sandstone and manganese oxides in tight steep dipping (dakota formation) about 300 feet east of location 1 (appears to be a fault zone on both sides here)

Location 3 - Iron vein in (dakota formation) believed to be Helvite, loose or porous alteration above or north; and clay alteration below or south; the alteration seems to be brownish and brick-red colored, deep blue glassy scales are present in the porous altered zone; this location is about 400 feet east of location 2

Two pits dug by bulldozing above and east of the iron vein at location 3 show good lenses of manganese oxides; sample assay of pits attached.

Re: Docket No. DMEA 4706 - Manganese
Triad Mining Group
Daggett County, Utah

Answer to information requested in letter dated, April 9, 1957

1. Sketch map, locations, and pits dug by bulldozing;

2. Sample of calcareous sandstone and manganese oxides that was sent to Bureau of Mines office at Denver, Colorado. Came from location 2

3. No channel samples taken;

4. Requires no road building, I have already had a road made to these locations by a bulldozer; requires no clearing of drill and tunnel sites; The work to be done can be done with a bulldozer;

5. Cost of 400 feet of diamond drilling (2.00 a ft.) about $ 800.00
size of the hole 2 inches;
Cost of drifting (30.00 a ft.) about 3,000.00
very little if any drift will need timbering
Supervising by myself, $ 3,800.00

B. E. Burnaugh

OFFICIAL FILE COPY
D M E A
RECEIVED APR 18 1957

DATE	INITIALS	CODE
4-18	C	
4/18	WSM	220
		400

P. O. BOX 1888
165 SOUTH WEST TEMPLE ST.

CERTIFICATE OF ASSAY

TELEPHONE 3-2563

BLACK & DEASON

ASSAYERS AND CHEMISTS

W. D. Wood

SALT LAKE CITY 10, UTAH, Dec. 24, 1954

B. E. Burnaugh

ASSAY PER TON OF 2000 POUNDS

NAME	NO.	OUNCES GOLD	VALUE GOLD PER TON	SILVER OUNCES	WET LEAD %	~~COPPER~~ %	~~INSOLUBLE~~ %	~~ZINC~~ %	%	IRON %	%
						URANIUM			MANGANESE		
	#1	(location 1 hornfels)				0.03					
	#2	(in pit above the iron vein)							1.5		
	#3	(in pit east of the iron vein)							1.4		

(Lower Ridge)

CHARGES $ 7.00

B. E. Deason

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

April 2, 1957

Mr. B. E. Burnaugh,
Box 550,
Green River, Wyoming.

Subject: DMEA 4706

Dear Mr. Burnaugh:

Your application for exploration assistance, dated March 26, 1957, submitted to our office at Denver, Colorado, has been assigned Docket Number DMEA 4706 and referred to the Iron & Ferro-Alloys Division in the Washington office. Kindly identify all future correspondence relating to your application by this Docket Number.

Sincerely yours,

Allen S. Dakan, Director
Operations Control and
Statistics Division

Copy to: Region III.

6416