DMA Form 1

DEFENSE MINERALS ADMINISTRATION
Control Slip

CONTROLLED DOCUMENT

DMA Docket No. 1911

DO NOT DETACH THIS SLIP

Action on this document is recorded and controlled in Reports and Records Branch. Any movement of this document between divisions or offices of DMA or movement outside DMA must be reported to the Reports and Records Branch. Actions taken that affect status of the case must also be reported.

This document has been recorded as

An Exploration

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

Routing Slip

To:	Mr. Brussel	Date	8/3/51
To:		Date	8/8/51
To:	Mr. Bourret	Date	8/9/51
To:	Reports + Records	Date	8-13-51
To:	Opn Comm	Date	11-24-52
To:		Date	
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DO NOT DETACH

CONTROLLED DOCUMENT

Surname 700
Murphy
Ellis

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

MAR 1 0 1955

Hon. Ruth Thompson
House of Representatives
Washington 25, D. C.

Re: Docket No. DMEA-1911 (Uranium)
Sargent, Burchard and La Fond
Mining and Development Company
Marquette County, Michigan

My dear Miss Thompson:

This will acknowledge your letter, dated March 4, to Mr. Ernest Wm. Ellis of this Agency, and also the enclosed letter, dated March 2, 1955, addressed to you by Mr. Bourdon who represents the above Applicants.

We have carefully reviewed the captioned application as you requested, and have been unable to find any additional data which could alter our previous conclusion in regard to the possibility of finding exploitable uranium deposits on the subject property.

We do appreciate the Applicants' position in regard to their property as expressed in Mr. Bourdon's letter. However this Agency is not authorized to recommend Federal aid in prospecting for mineral occurrences. Usually the applicant for assistance must submit data which indicate favorable possibilities of ore deposits in veins, rock structures, or rock formations before we request our field men to make an examination. However, because uranium is so essential to the defense program, we sometimes waive these requirements in a new region where radioactivity anomalies have been reported. In these cases, which mostly concern small operators with limited capital, our field team members supply this office with the required data which the application lacks. This was done in regard to the present application.

The subject property has been examined by mining engineers and geologists representing three Federal agencies. In summary, their conclusions are that the property seems to have little economic value or possibilities. The mineralization on this property is typical of several such occurrences of radioactive minerals associated with pre-cambrian granites in northern Michigan, where small quantities of radioactive minerals occur scattered along a shear zone or fracture in the rock.

R.C.S.

In view of the field examiners' conclusions and other data available to this Agency, we believe that further examination or work by the Government on the subject property is not warranted at this time.

If I can assist you further in this matter please call upon me. Mr. Beurdon's letter to you is herewith returned.

Sincerely yours,

C. O. Mittendorf

Administrator

Enclosure

FMMurphy:am
3-9-55
cc to: Admr. Reading File
Docket
Code 700
Mr. Murphy
DMEA Field Team, Region V(2)

UTH THOMPSON
9TH DIST., MICHIGAN

HOME ADDRESS:
WHITEHALL, MICH.

COMMITTEE:
JUDICIARY

700

ERNEST P. LOBENHERZ
ADMINISTRATIVE ASSISTANT

HOME ADDRESS:
MUSKEGON, MICH.

Congress of the United States
House of Representatives
Washington, D. C.

March 4, 1955

DMEA-1911

Mr. E. W. Ellis
Defense Minerals Exploration Program
Department of the Interior
Washington 25, D. C.

Dear Mr. Ellis:

You will recall my inquiry a week ago on behalf of the Sargent, Burchard & LaFond Mining Co. of Muskegon, Michigan. A Mr. Russell G. Bourdon, the spokesman for this company, brought to my attention its request for financial aid which was denied by your agency in 1952.

On your advice I asked Mr. Bourdon to furnish me with new information which would aid in reopening his application. I am enclosing his reply and request that you review the application and furnish me with your professional observations. Thank you for your cooperation.

Sincerely yours,

Ruth Thompson

Ruth Thompson

RT
la
Enclosure

Muskegon, Michigan

March 2, 1955.

Honorable Ruth Thompson
House of Representatives
Washington, D. C.

Dear Miss Thompson:

We have your letter of February 23, 1955, and deeply appreciate not only the help you have thus far extended, but also your promptness in checking our problem.

We realise that our application for financial aid to develop our mine has been rejected because the sample we submitted did not show a sufficient uranium count, and that we must secure a sample that does, in order to obtain the aid for development.

MissThompson that is our problem. We do not have the money to dig for a better sample. The booklet you will find inclosed states that financial aid may be obtained for exploration purposes. It was our hope that we could file an application for exploration aid, so that we could obtain the necessary sample for our original development application.

Can it be that we have misinterpreted the Government aid program? Our mine is at the base of a small clif of granite rock, and although we have dug to no great depth, yet the overhanging rocks are in too dangerous a position for us to continue work without removing them, or, as previously mentioned, there are several other locations where our geiger counter shows a very interesting count, and we could start new diggings at one of these locations. We do not believe that a very large sum of money would be required, as we have already done considerable work in the area.

We shall look forward to your reply, and we again thank you for your cooperation and courtesy.

Very truly yours,

/s/ Russell G. Bourdon
1280 Sanford St.

c
o
p
y

FILE COPY
SURNAME:

Ellis
Hopper
Kunkel
F.E. Johnson

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

NOV 24 1952

Mr. Thomas Sargent
Sargent, Hatcher and Lead Mining
and Development Company
1436 Beck Street
Marquette [illegible], Michigan

Re: [illegible]
Marquette County, Michigan

Dear Mr. Sargent:

[illegible] for an exploration [illegible] for a re-examination of the property, as provided in [illegible] letter.

[illegible] your request [illegible] exploration [illegible] guidelines.

Sincerely yours,

C. O. Mittendorf

Administrator

(for) J.H.
11-24-52

GLAult/Ellis/jem
11/19/52
cc to: Adm. Reading File
Docket
Messrs. H.D.Keiser-Rm.1347
A.T.Butler-Rm.3206 GS
Opr. Committee
Ellis
Field Team, Region V (2)

11/21/52

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
NOV 21 1952

November 19, 1952

Memorandum

To: Ernest William Ellis, DMEA Member,
Uranium Commodity Committee, Room 4640

From: H. D. Keiser, Bureau of Mines Member,
Uranium Commodity Committee

Subject: Field Team Report, DMEA Docket No. 1911, Sargent, Burchart, and LaFond Mining and Development Co., Republic, Marquette County, Michigan.

I have reviewed the subject report and discussed it with Mr. Joseph O. Hosted, representative of the Atomic Energy Commission.

Mr. Hosted has reported that geologists of the Atomic Energy Commission have examined the property discussed in the report and concur with the recommendation expressed in the report that the application for an exploration loan be denied.

It is recommended that the subject report be approved, and that the application for an exploration loan be denied.

H. D. Keiser

H. D. Keiser

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

NOV 2 1 1952

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It is recommended that the subject report be approved, and that the application for an exploration loan be denied.

Signed

H. D. Keiser

11/14/52 gla

STANDARD FORM NO. 64

Office Memorandum • UNITED STATES GOVERNMENT

TO : E. Wm. Ellis, DMEA Member, Uranium Commodity Committee

DATE: November 12, 1952

FROM : Arthur P. Butler, Jr., USGS Member, Uranium Commodity Committee

SUBJECT: Field Team Report DMEA Docket 1911, Sargent, Burchard, and La Fond Mining and Development Co., Sec. 32, T. 47 N., R. 29 W., Marquette County, Michigan.

I concur with the recommendations of the examining geologists of the Field Team as made in the report identified above, that exploration assistance be denied because the property has little or no possibility as a source of uranium.

Arthur P. Butler, Jr.

Arthur P. Butler, Jr.

Copy to: E. Wm. Ellis

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
NOV 13 1952

IN REPLY REFER TO:

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

November 12, 1952

E. Wm. Ellis, DMEA Member, Uranium Commodity Committee

Arthur P. Butler, Jr., USGS Member, Uranium Commodity Committee

Field Team Report DMEA Docket 1911, Sargent, Burchard, and La Fond Mining and Development Co., Sec. 32, T. 47 N., R. 29 W., Marquette County, Michigan.

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Arthur P. Butler, Jr.

Copy to: E.Wm.Ellis

Copy to: Div. Files
Dir. Reading

File: DMEA Docket
DMEA Applicant
TEPCO Reading
ARU Reading

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
NOV 13 1952

11/6/52 gla

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
~~WASHINGTON 25, D.C.~~
Region V
2908 Colfax Avenue South
Minneapolis 8, Minnesota

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
OCT 31 1952

October 29, 1952

Memorandum

To: Operating Committee, Defense Minerals Exploration Administration, Interior Building, Washington 25, D. C.

From: Executive Officer, Field Team, Region V

Subject: Docket DMEA-1911, Sargent, Burchard, and LaFond Mining and Development Co.

Reference is made to previous correspondence on the subject docket which was numbered during the DMA regime, particularly the letter of January 10, 1952, from Mr. C. O. Mittendorf to Mr. Thomas Sargent denying his application but leaving the way open for further examination.

? We show Accepted Dec. 3, 1951

This office has been in touch with Mr. Sargent and associates since that date, and the mineral showing has finally been opened enough for another examination.

Results of the examination contained in the report are here attached as the original and three copies.

A. B. Needham
Executive Officer
Field Team, Region V

Attachments

ABNeedham:dg
cc Dutton
Region V
files
df

Reviewed by
DMEA OPERATING COMMITTEE
11-5-52
(date)

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

DEFENSE MINERAL EXPLORATION ADMINISTRATION
REGION V

DMEA-1911-Sargent, Burchard and LaFond Mining and Development Company

Republic, Marquette County, Michigan

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
OCT 31 1952

E. J. Martin
Mining Engineer
U. S. Bureau of Mines

October, 1952

Reviewed by
DMEA OPERATING COMMITTEE

11-5-52
(date)

DEFENSE MINERAL EXPLORATION ADMINISTRATION

INTRODUCTION

On July 29, 1951, the Sargent, Burchard and LaFond Mining and Development Co. submitted an application for an exploration loan of $40,382.00 to explore a uranium deposit near Republic, Mich. The Government's share would have been 90 percent. The property was examined by a DMEA field team on September 7, 1951, and it recommended denial of the loan. At the time of examination, the applicant claimed there was a highly radioactive heavy, black material under several feet of muck and water.

In a letter dated December 3, 1951, from the acting administrator of DMEA, Mr. Sargent was advised that his application was denied and that if new and favorable geologic evidence were submitted, a new application for assistance would be considered.

On August 4, 1952, Mr. Sargent requested a re-examination of his property. Re-examination was made on August 22, 1952.

CONCLUSIONS AND RECOMMENDATION

No new or favorable geologic evidence was presented or observed. Analysis of samples taken do not indicate any uranium of economic or strategic importance.

Denial is again recommended for this application.

LOCATION

The property is located in the W 1/2 of the NW 1/4,sec. 32, T. 47, R. 29 W, Republic Township, Marquette County, Mich. It is about 2 miles north of the town of Republic on State Highway 95, which is also the west boundary of the property. The workings are about 300 feet east of the road.

OWNERSHIP

The property is owned by Victor and Aili Toivonen of Republic, Marquette County, Mich. A lease has been granted to the Sargent, Borchard and LaFond Mining and Development Co. to prospect for and mine radioactive ores.

APPLICANT

The applicant appears to have very little knowledge of geology, mineralogy, or the mechanics of mining or exploration.

PROJECT

A pit about 10 feet deep was sunk in massive granite and following down on a narrow shear zone. The shear zone material is slightly more radioactive than the surrounding granite. The following are the analytical results of two samples taken from the pit. Radiometric analysis was made by the Metallurgical Division of Bureau of Mines, Region V.

Sample Number	Uranium Equivalent, per cent	Description
I	0.005	Massive granite
II	.015	Shear zone material

GEOLOGIC REPORT ON THE SARGENT URANIUM PROSPECT

MARQUETTE COUNTY, MICHIGAN

by

Rollin C. Vickers and Jacob Freedman

The Sargent uranium prospect was re-examined on August 22, 1952, on behalf of the Atomic Energy Commission. E. J. Martin of the Region V office of the Bureau of Mines, Minneapolis, Minn. made a simultaneous examination of the prospect on behalf of the DMEA.

The prospect is about 2 miles northeast of Republic, Marquette county, Michigan, and is in the W½, NW¼, sec. 32, T. 47 N., R. 29 W., Michigan meridian (fig. 1). It may be reached by traveling northeastward on State Highway 95 for a distance of 2 miles from the railroad crossing in Republic, Mich., and thence southeastward along a footpath for about 300 feet (fig. 2). The property is owned by the Sargent, Burchard, and LaFond Mining and Development Company, 2492 Huizenga Street, Muskegon Heights, Mich.

The outcrops at and near the prospect are numerous small masses in an area of slight relief. The rock material is a coarse-grained porphyritic granite that is composed of feldspar as much as 1 inch in length, biotite, and quartz. The granite is slightly gneissic with the foliation striking N. 42 W. and dipping 72° NE. The age of the rock is pre-Cambrian and probably post Huronian.

The radioactive occurrence is along a small discontinuous shear that strikes N. 60° W. and dips 51° SW. The shear zone, filled mainly with biotite, is about 3 inches wide and is exposed only for about 2 feet near

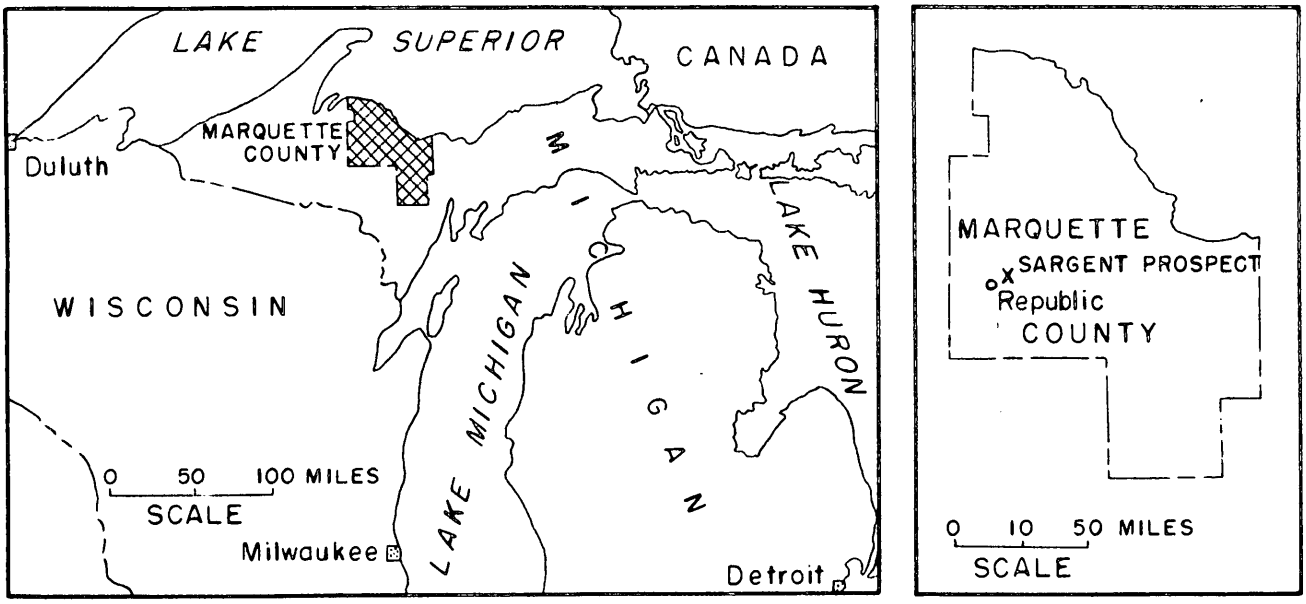

Figure 1. Index maps showing location of Marquette County, Michigan, and the Sargent uranium prospect.

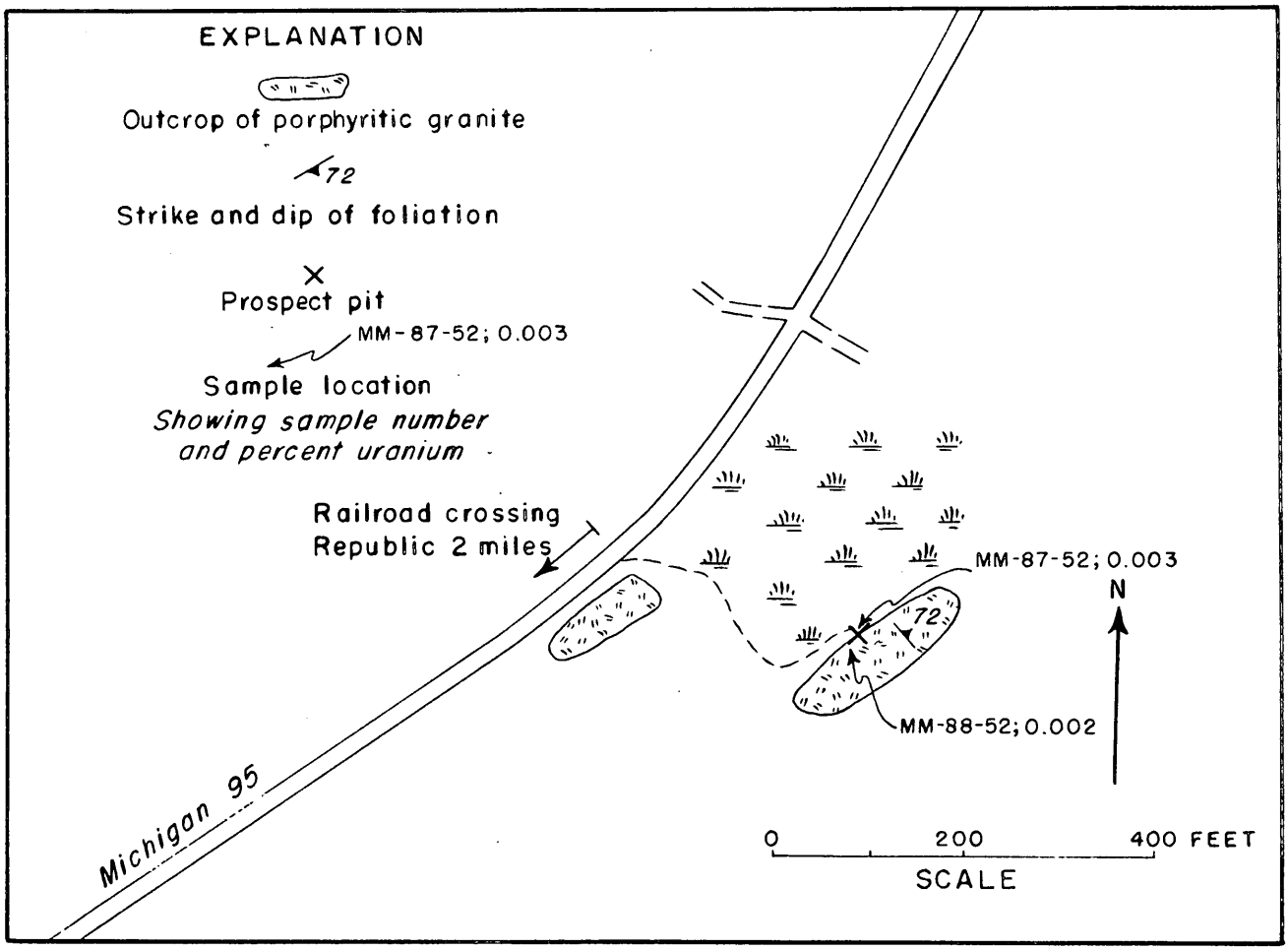

Figure 2. Sketch map of the Sargent uranium prospect, Marquette County, Michigan.

the bottom of a 12-foot prospect pit that was dug along side a 15-foot high granite outcrop. The owners report that the radioactive zone was followed down from the surface and that most of it was removed in sampling and blasting.

A radiometric examination of the prospect, using a Nuclear Instrument and Chemical Company, Model 2610A, Geiger counter, showed abnormal radioactivity along the shear zone exposed near the bottom of the prospect pit and to a lesser extent in the granite. With a background of 0.03 mR/hr., scattered spots in the shear zone gave readings of 0.18 mR/hr. No radioactive minerals were visible megascopically. The granite in the area has a higher than average radioactive content and gave consistent readings of 0.05 mR/hr. at several localities.

Sample information

Sample no.	Serial no.	%eU	%U	Description
MM-87-52	D-72490	0.008	0.003	Grab sample of shear zone in prospect pit
MM-88-52	D-72491	0.006	0.002	Grab sample of granite from dump

Report TDC-2033

The results of the analyses indicate that the radioactivity for the granite is considerably greater than for a granite of average radioactivity and that most of the radioactivity (in the granite and in the shear zone) is probably due to thorium.

In summary, the property has little economic value or possibilities. This occurrence is typical of several such occurrences of radioactive minerals associated with pre-Cambrian post Huronian (?) granites in northern Michigan where small quantities of radioactive minerals occur scattered along a shear zone or fracture.

It is interesting to note that this occurrence is in the area of the greatest concentration of radioactivity anomalies reported in the airborne radioactivity survey of that area (Stead, F. W., Davis, F. J., Nelson, R. A., and Reinhardt, P. W., 1950, Airborne radioactivity survey of parts of Marquette, Dickinson, and Baraga counties, Michigan: U. S. Geol. Survey and Atomic Energy Commission). However no radioactive anomalies were reported within 0.6 mile of the prospect.

Rec'd
NOV 6 1952
COPY
10:30 AM

Region V
2908 Colfax Avenue South
Minneapolis 8, Minnesota

October 29, 1952

Memorandum

To: Operating Committee, Defense Minerals Exploration Administration, InteriorBuilding, Washington 25, D. C.

From: Executive Officer, Field Team, Region V

Subject: Docket DMEA-1911, Sargent, Burchard, and LaFond Mining and Development Co.

Reference is made to previous correspondence on the subject docket which was numbered during the DMA regime, particularly the letter of January 10, 1952, from Mr. C. O. Mittendorf to Mr. Thomas Sargent denying his application but leaving the way open for further examination.

This office has been in touch with Mr. Sargent and associates since that date, and the mineral showing has finally been opened enough for another examination.

Resultsof the examination contained in the report are here attached as the original and three copies.

/s/ A. B. Needham
Executive Officer
Field Team, Region V

Attachments

ABNeedham:dg
cc: Dutton
Region V
files
df

DMEA OPERATION FILES

(date)

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

DEFENSE MINERAL EXPLORATION ADMINISTRATION
REGION V

DMEA-1911-Sargent, Burchard and LaFond Mining and Development Company

Republic, Marquette County, Michigan

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
OCT 31 1952

E. J. Martin
Mining Engineer
U. S. Bureau of Mines

October, 1952

Reviewed by
DMEA OPERATING COMMITTEE
(date)

DEFENSE MINERAL EXPLORATION ADMINISTRATION

INTRODUCTION

On July 29, 1951, the Sargent, Burchard and LaFond Mining and Development Co. submitted an application for an exploration loan of $40,382.00 to explore a uranium deposit near Republic, Mich. The Government's share would have been 90 percent. The property was examined by a DMEA field team on September 7, 1951, and it recommended denial of the loan. At the time of examination, the applicant claimed there was a highly radioactive heavy, black material under several feet of muck and water.

In a letter dated December 3, 1951, from the acting administrator of DMEA, Mr. Sargent was advised that his application was denied and that if new and favorable geologic evidence were submitted, a new application for assistance would be considered.

On August 4, 1952, Mr. Sargent requested a re-examination of his property. Re-examination was made on August 22, 1952.

CONCLUSIONS AND RECOMMENDATION

No new or favorable geologic evidence was presented or observed. Analysis of samples taken do not indicate any uranium of economic or strategic importance.

Denial is again recommended for this application.

LOCATION

The property is located in the W 1/2 of the NW 1/4, sec. 32, T. 47, R. 29 W, Republic Township, Marquette County, Mich. It is about 2 miles north of the town of Republic on State Highway 95, which is also the west boundary of the property. The workings are about 300 feet east of the road.

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UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

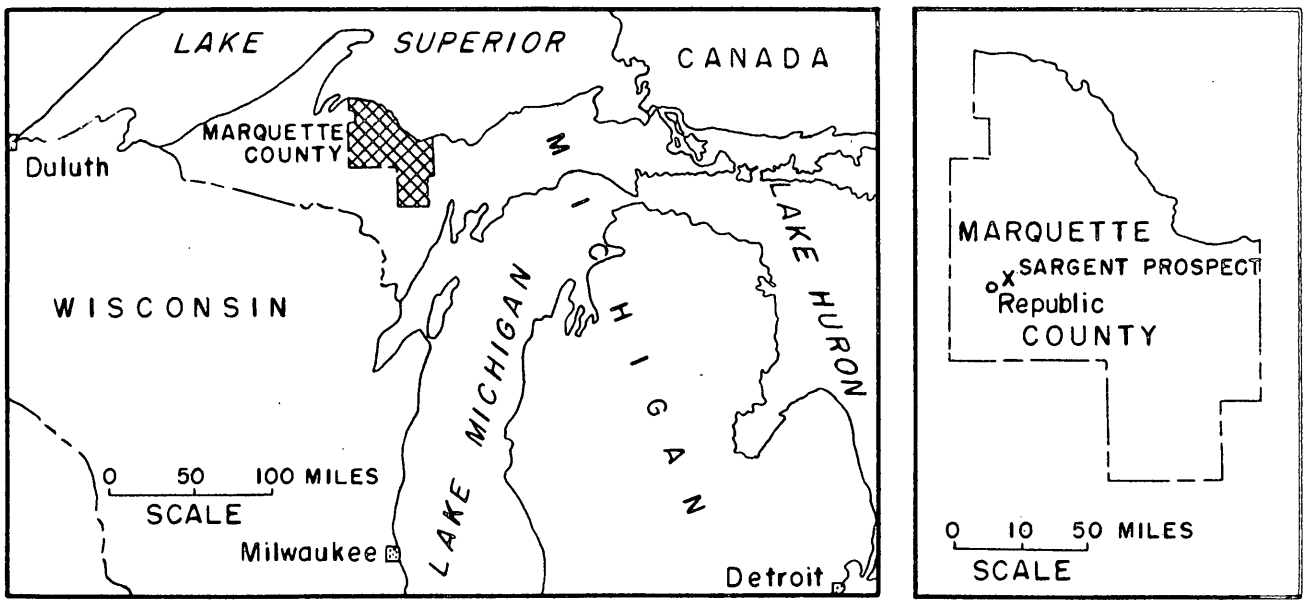
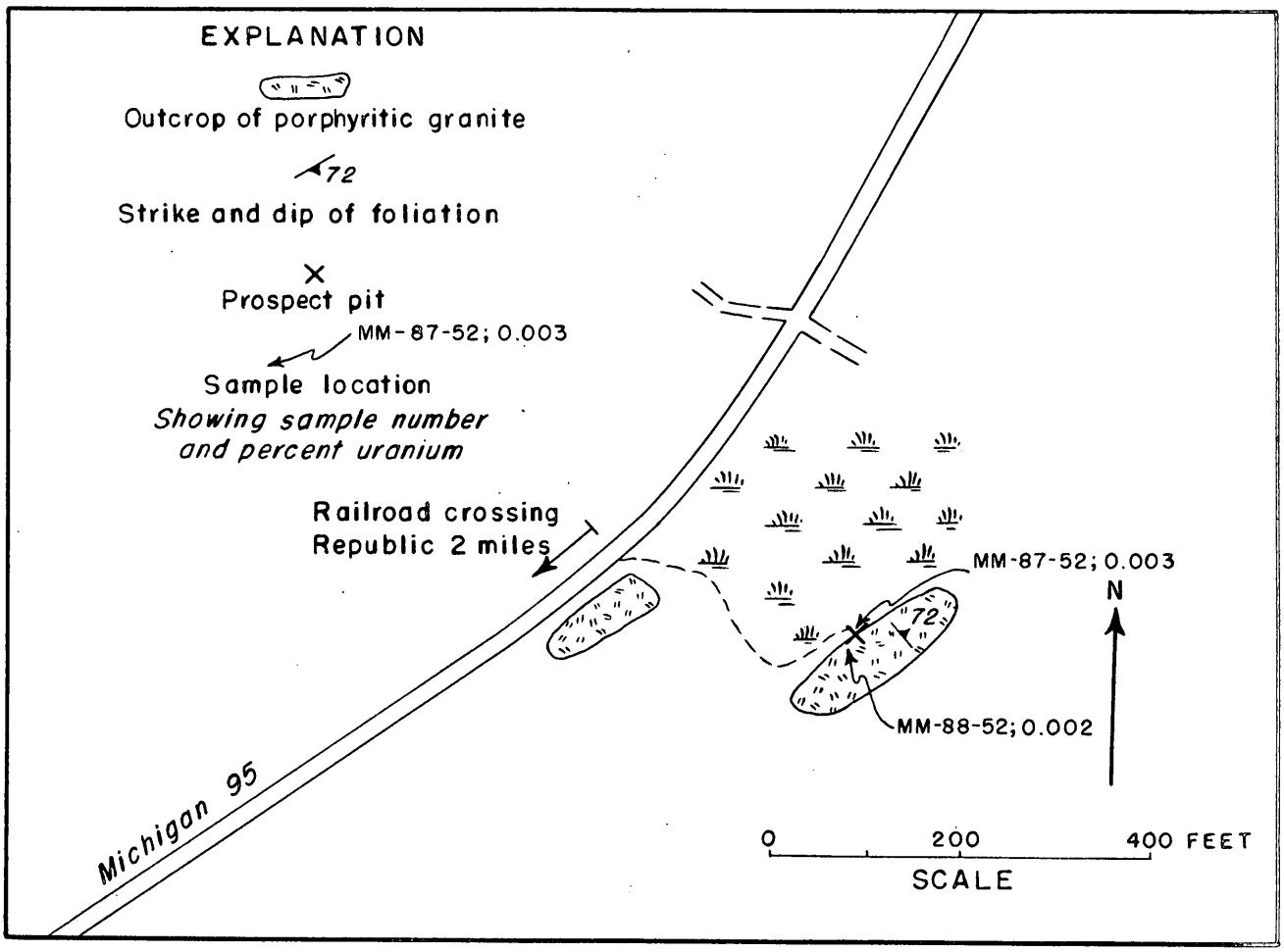


Figure 1. Index maps showing location of Marquette County, Michigan, and the Sargent uranium prospect.



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Report TDC-2033

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Region V
2908 Colfax Avenue South
Minneapolis 8, Minnesota

COPY

October 29, 1952

Memorandum

To: Operating Committee, Defense Minerals Exploration Administration, InteriorBuilding, Washington 25, D. C.

From: Executive Officer, Field Team, Region V

Subject: Docket DMEA-1911, Sargent, Burchard, and LaFond Mining and Development Co.

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/s/ A. B. Needham
Executive Officer
Field Team, Region V

Attachments

ABNeedham:dg
cc: Dutton
Region V
files
df

Reviewed by
DMEA OPERATING COMMITTEE
11-5-52
(date)

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

DEFENSE MINERAL EXPLORATION ADMINISTRATION
REGION V

DMEA-1911-Sargent, Burchard and LaFond
Mining and Development Company

Republic, Marquette County, Michigan

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
OCT 31 1952

E. J. Martin
Mining Engineer
U. S. Bureau of Mines

October, 1952

Reviewed by
DMEA OPERATING COMMITTEE
11-5-52
(date)

DEFENSE MINERAL EXPLORATION ADMINISTRATION

INTRODUCTION

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Denial is again recommended for this application.

LOCATION

The property is located in the W 1/2 of the NW 1/4, sec. 32, T. 47, R. 29 W, Republic Township, Marquette County, Mich. It is about 2 miles north of the town of Republic on State Highway 95, which is also the west boundary of the property. The workings are about 300 feet east of the road.

OWNERSHIP

The propert is owned by Victor and Aili Toivonen of Republic, Marquette County, Mich. A lease has been granted to the Sargent, Borchard and LaFond Mining and Development Co. to prospect for and mine radioactive ores.

APPLICANT

The applicant appears to have very little knowledge of geology, mineralogy, or the mechanics of mining or exploration.

PROJECT

A pit about 10 feet deep was sunk in massive granite and following down on a narrow shear zone. The shear zone material is slightly more radioactive than the surrounding granite. The following are the analytical results of two samples taken from the pit. Radiometric analysis was made by the Metallurgical Division of Bureau of Mines, Region V.

Sample Number	Uranium Equivalent, per cent	Description
I	0.005	Massive granite
II	.015	Shear zone material

GEOLOGIC REPORT ON THE SARGENT URANIUM PROSPECT

MARQUETTE COUNTY, MICHIGAN

by

Rollin C. Vickers and Jacob Freedman

The Sargent uranium prospect was re-examined on August 22, 1952, on behalf of the Atomic Energy Commission. E. J. Martin of the Region V office of the Bureau of Mines, Minneapolis, Minn. made a simultaneous examination of the prospect on behalf of the DMEA.

The prospect is about 2 miles northeast of Republic, Marquette county, Michigan, and is in the W½, NW¼, sec. 32, T. 47 N., R. 29 W., Michigan meridian (fig. 1). It may be reached by traveling northeastward on State Highway 95 for a distance of 2 miles from the railroad crossing in Republic, Mich., and thence southeastward along a footpath for about 300 feet (fig. 2). The property is owned by the Sargent, Burchard, and LaFond Mining and Development Company, 2492 Huizenga Street, Muskegon Heights, Mich.

The outcrops at and near the prospect are numerous small masses in an area of slight relief. The rock material is a coarse-grained porphyritic granite that is composed of feldspar as much as 1 inch in length, biotite, and quartz. The granite is slightly gneissic with the foliation striking N. 42 W. and dipping 72° NE. The age of the rock is pre-Cambrian and probably post Huronian.

The radioactive occurrence is along a small discontinuous shear that strikes N. 60° W. and dips 51° SW. The shear zone, filled mainly with biotite, is about 3 inches wide and is exposed only for about 2 feet near

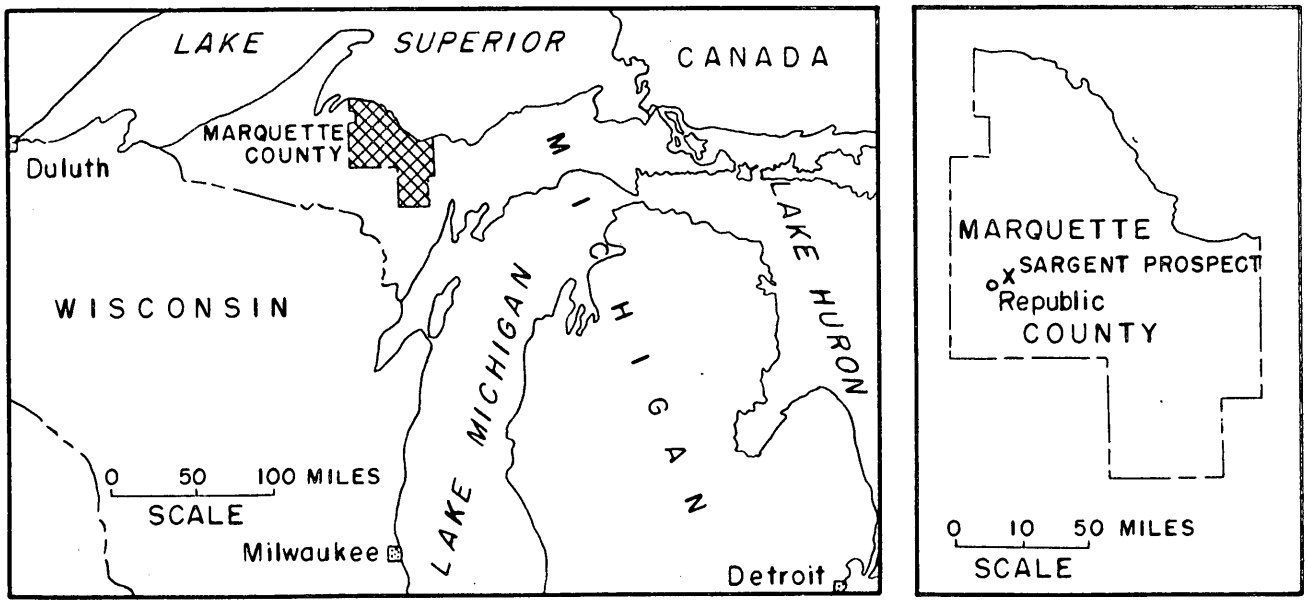

Figure 1. Index maps showing location of Marquette County, Michigan, and the Sargent uranium prospect.

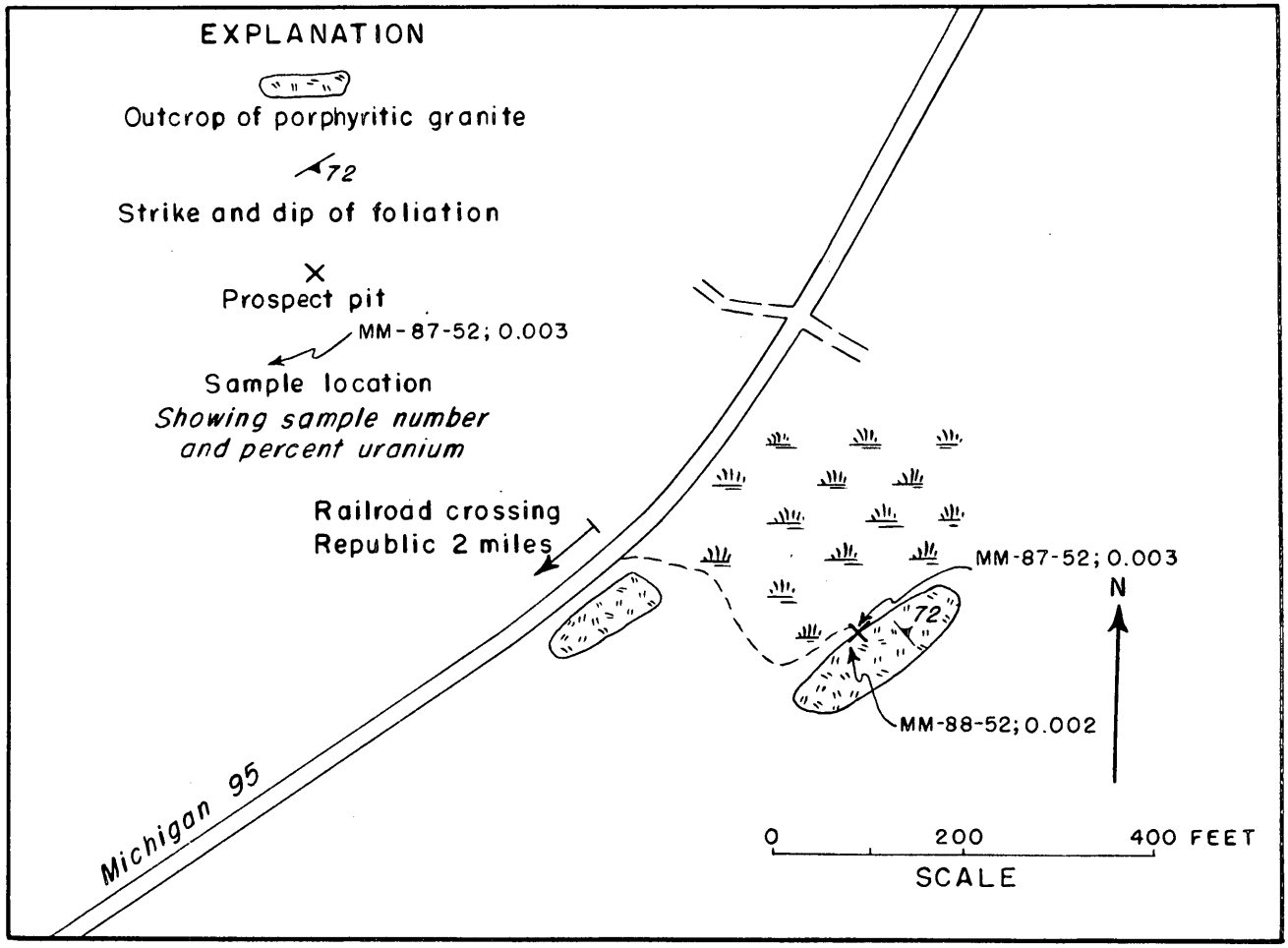

Figure 2. Sketch map of the Sargent uranium prospect, Marquette County, Michigan.

the bottom of a 12-foot prospect pit that was dug along side a 15-foot high granite outcrop. The owners report that the radioactive zone was followed down from the surface and that most of it was removed in sampling and blasting.

A radiometric examination of the prospect, using a Nuclear Instrument and Chemical Company, Model 2610A, Geiger counter, showed abnormal radioactivity along the shear zone exposed near the bottom of the prospect pit and to a lesser extent in the granite. With a background of 0.03 mR/hr., scattered spots in the shear zone gave readings of 0.18 mR/hr. No radioactive minerals were visible megascopically. The granite in the area has a higher than average radioactive content and gave consistent readings of 0.05 mR/hr. at several localities.

Sample information

Sample no.	Serial no.	%eU	%U	Description
MM-87-52	D-72490	0.008	0.003	Grab sample of shear zone in prospect pit
MM-88-52	D-72491	0.006	0.002	Grab sample of granite from dump

Report TDC-2033

The results of the analyses indicate that the radioactivity for the granite is considerably greater than for a granite of average radioactivity and that most of the radioactivity (in the granite and in the shear zone) is probably due to thorium.

In summary, the property has little economic value or possibilities. This occurrence is typical of several such occurrences of radioactive minerals associated with pre-Cambrian post Huronian (?) granites in northern Michigan where small quantities of radioactive minerals occur scattered along a shear zone or fracture.

It is interesting to note that this occurrence is in the area of the greatest concentration of radioactivity anomalies reported in the airborne radioactivity survey of that area (Stead, F. W., Davis, F. J., Nelson, R. A., and Reinhardt, P. W., 1950, Airborne radioactivity survey of parts of Marquette, Dickinson, and Baraga counties, Michigan: U. S. Geol. Survey and Atomic Energy Commission). However no radioactive anomalies were reported within 0.6 mile of the prospect.

DMA-1911 Uranium Region V	SARGENT, BURCHARD & LAFOND MINING AND DEVELOPMENT COMPANY, MU[illegible]GON HEIGHTS, MICHIGAN. Uraniu[illegible] respect, Marquette County, Mi[illegible]igan. $40,382 was requested. Committee reviewed and cleared denial of application.

FILE COPY
SURNAME:

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

DEC 3 - 1951

Gordon
Hosted
Keiser
Moon
Thayer
Ferguson

Mr. Thomas Sargent
Sargent, Burchard and LaFond Mining
and Development Company
1436 Peck Street
Muskegon Heights, Michigan

Re: Uranium prospect
Marquette County, Michigan
DMA docket 1911

Dear Mr. Sargent:

Your application of July 29, 1951, for an exploration project in the sum of $40,382, has been carefully reviewed by our engineers.

We regret to advise you that your application must be denied at this time because of insufficient evidence to indicate the geologic probability of making a significant discovery.

Should evidence obtained in the future be of such nature as to alter this opinion, we would be glad to consider a new application.

Sincerely yours,

C. O. Mittendorf (fw)
12/3

Acting Administrator
Defense Minerals Exploration
Administration

ERGordon:lm
11/28/51

cc: Admn. Reading File
Reports and Records
Mr. Keiser, USGS
Mr. Hosted, AEC
Field Team Reg. V
Docket

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

November 28, 1951

Memorandum

To: Reports and Records

From: Acting Administrator
Defense Minerals Exploration Administration

Subject: Uranium prospect
Marquette County, Michigan
DMA docket 1911

Under date of July 29, 1951, Sargent, Burchard and LaFond Mining and Development Company, 1436 Peck Street, Muskegon Heights, Michigan, submitted the subject application, DMA 1911, for an exploration project in the amount of $40,382.

Attached hereto find letter of even date addressed to the applicant denying the application because of insufficient evidence to indicate the geologic probability of making a significant discovery.

We herewith return the complete docket, comprised as follows:

(a) Three copies of form MF-103 and replies, supporting data for same and letter of acknowledgement.

(b) Two copies of letter dated August 15, 1951, to applicant and two copies of field team referral form.

(c) Two copies of field team report recommending denial, and letter of submittal.

(d) Memorandum from reviewers for AEC and USGS concerning the field team's denial.

Sincerely yours,

Acting Administrator
Defense Minerals Exploration
Administration

400
FILE COPY
SURNAME:

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

Gordon
Hosted
Keiser

November 28, 1951

Memorandum

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Sincerely yours,

C. O. Mittendorf (for) 12/3

Acting Administrator
Defense Minerals Exploration
Administration

MEGordon:lm
11/28/51

cc: Admn. Reading File
✓ Reports and Records
Mr. Keiser, USGS
Mr. Hosted, AEC
Field Team Region V
Docket

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION
~~WASHINGTON, D.C.~~
Region V
2908 Colfax Avenue South
Minneapolis 8, Minnesota

Department of the Interior
Defense Minerals Administration
RECEIVED
NOV 7 1951

November 5, 1951

Memorandum

To: Tom Lyon, Chairman, Coordinating Committee, Defense Minerals Administration, Interior Building, Washington 25, D. C.

From: Executive Officer, DMA Field Team, Region V

Subject: Docket DMA-1911, Sargent, Burchard, and LaFond Mining and Development Co., Republic, Michigan

Here are four copies of the field team report on the subject referral, together with the supporting data which was submitted to us on August 15, 1951.

The report of the field team has been delayed because the applicant indicated, at the time of the field investigation, that he would do further work on a shaft which he proposed before the starting out of his exploration, in order to substantiate findings which he indicated to the field team.

The additional work was not done, and it seemed advisable to clear the docket. On the basis of current information, the field team recommended the application be denied. It is possible, however, that the applicant might request a re-examination, but in all probability it will not be until late spring.

A. B. Needham
Executive Officer
DMA Field Team, Region V

Attachments

11/27/51

Hugh: DMA-1911

I agree with the recommendations presented in the report of the DMA field team

JCW 11/27/51

JC: I agree with the recommendations presented in the report of the DMA field team.

HWK

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

DEFENSE MINERALS ADMINISTRATION
REGION V

DMA-1911-Sargent, Burchard and LaFond Mining and Development Company

Republic, Marquette County, Michigan

Thomas L. Chapman and E. J. Martin
Mining Engineers
U. S. Bureau of Mines

Dr. Walter S. White
Geologist
U. S. Geological Survey

Nov. 1951

DEFENSE MINERALS ADMINISTRATION

Review of Application for Exploration Assistance

Docket No. - DMA - 1911
Commodity - Uranium
Total amount - $40,382.00
Government participation - $36,343.80

APPLICANT

Sargent, Burchard and LaFond Mining and Development Company.
A co-partnership.

Thomas Sargent	1436 Peak Street	Muskegon Heights, Michigan
George Burchard	R. R. #1	Fruitport, Michigan
Donald LaFond	1436 Peak Street	Muskegon Heights, Michigan

LOCATION

This property is located in the West 1/2 of the Northwest 1/4 of Section 32, Township 47, Range 29 West, Republic Township, Marquette County, Michigan. It is about 2 miles north of the town of Republic on the Chicago and Northwestern Railroad. State highway No. 95 runs along the property and the only workings are about 600 feet east of the highway.

MINERAL

The proposed exploration work would be for the purpose of locating uranium bearing ores. Since uranium is a necessary component in atomic research and development the Atomic Commission has declared uranium ores critical and strategic materials. The Government is purchasing uranium ores and every effort is being made to increase their production.

The Government schedule of assistance in the exploration work for uranium ores is 90 percent of the cost.

GEOLOGY

The rock on this property and a large surrounding area is a coarse porphyritic granite. In road cuts some intrusions or inclusions of altered rocks were noted. Aerial and ground surveys have shown some reactions with the Geiger counter in large masses or in cracks. Individual pieces of rock show little or no reaction with the counter. The Bureau of Mines Engineers were unable to find any unusual radio-activity in the area with a Geiger counter.

Geology by Walter S. White

The rock of the area is a rather uniform, very coarse, porphyritic granite, slightly gneissic. No other rocks were seen in the vicinity of the prospect. In nearby roadcuts there are thin tabular masses of dark mafic rock that might, on the basis of casual examination, be either dikes or inclusions in the granite.

I made the following observations on the general characteristics of radioactivity in the vicinity, using Victoreen counter #210.

(1) Radioactivity was the same (average of 34 counts/minute) across a swamp on a low mound 100 feet S.E. of the prospect as in the town of Republic, which lies outside the granite area. These counts were made with the tube shielded.

(2) With unshielded tube, horizontal surfaces of granite in the vicinity (radius of 150 feet) typically give readings of 0.7-1.0 microamps on the ammeter.

(3) Vertical and overhanging surfaces of the granite give readings of 1.0-2.0 microamps.

(4) When the unshielded tube was inserted into narrow crevices in any of the granite, the ammeter gave readings of 1.5-2.5 (possibly 3.0) microamps.

(5) In a roadcut about a mile north of the prospect, a small vague biotite schliere, exposed in a vertical face, gave a reading of about 2.5, in contrast with the adjacent normal granite which gave a reading of about 1.5 microamps. Tabular masses of mafic rock and a 1-foot pegmatite dike in the same roadcut gave average readings.

(6) Readings in the test hole dug by Sargent and his associates (about 3 x 5 feet, x 10 feet deep), and in the crevice above the hole that he had followed downward, were all within the ranges typical of similar surfaces in the granite generally.

(7) Readings were taken on a large number of rocks that had been blasted from the opening, and all were within the general range for the granite.

In summary, readings with a counter showed nothing out of the apparent normal range for the granite of this area, although the granite itself seems to have a level of radio-activity that is considerably higher than the background over deep overburden. Mr. Sargent states that the high readings he obtained were from rock now covered by $1\frac{1}{2}$-2 feet of muck in the bottom of his test hole; there were no samples of this rock at the site, and Sargent said that all the pieces of radio-active rock (which he describes as darker than average) had been removed by a nephew. He showed us several places in the vicinity where he said that he and others had obtained high readings with a counter, but I could not get any readings out of the ordinary.

Chapman and Martin had a smaller counter with which they tested the opening, rockpiles, and surrounding outcrops of granite, and likewise were unable to find any evidence of unusual radioactivity.

Mr. Sargent seemed resigned to the fact that we could confirm none of his findings from the evidence at hand, and expects to blast deeper into the bottom of his test hole next spring. At this time he will presumably request a reexamination of his prospect.

OWNERSHIP

The property is owned by Victor Toivonen and Aili Toivonen, husband and wife of Republic, Marquette County, Michigan. A lease has been granted to the Sargent, Borchard and LaFond Mining and Development Company to prospect for and mine radio-active ores. The lease calls for a rental of $10.00 per year and a royalty of 10 percent of the net proceeds of any radio-active ores shipped. The lease is to be in effect as long as radio-active ores are being shipped, but there is no stipulation as to the amount of work required to find these ores or time limit before production is started.

FEASIBILITY

The Bureau of Mines Engineers and Geologist of the Geological Survey concur in the belief that there is little possibility of finding uranium ores in this area.

EXPERIENCE

The applicants have had little or no experience in mining and would probably make many mistakes in handling this type of operation.

OPERATION AND COST

The applicant estimates the costs as follows:

Item 23

(a) Nine miners at $1.00 per hour
(b) One Mining Engineer at $600.00 per month
One Superintendant at $600.00 per month
One Administrator at $600.00 per month
One Foreman at $500.00 per month
(c) None
(d) Buildings $1,500.00
(e) Equipment $9,854.00
(f) Bulldozer and Tractor, about $15.00 per hour
(g) None
(h) Forge, picks, shovels etc. and fuel. $5,500.00
(i) Power system and lights. $700.00

Project is scheduled to be completed six months after approval, at which time project should yield uranium ore at an approximate cost of $40,382.00

The applicant gives no reason for expecting ore at this time. No estimates are given as to the advance that would be made or the depth that would be obtained with the above work.

For a small operation of this type the mining engineer, superintendant, and administrator are not necessary. The general build up by the applicant shows little knowledge of this type of work.

A general breakdown of costs is presented by the applicant in Exhibit VI.

CONCLUSIONS

The applicant has little knowledge of mining and geology. The applicant has very little idea of the difficulties encountered in the search for ores.

The Bureau of Mines engineers and the Geological Survey geologist concur in the belief that there is little possibility of finding any uranium ores of an economic grade in this area.

RECOMMENDATIONS

It was advised by the DMA team that applicant sink the shaft several feet deeper and if he obtained any substantial improvement in the Geiger counter reaction that the DMA team would again inspect the property. Otherwise it is recommended that the property be given no further consideration.

Exhibit VI

EQUIPMENT NECESSARY FOR EXPLORATION OF PROPERTY

Truck	App.	$ 3,000.00
Bulldozer	75 hours at $15.00 per hour	1,125.00
Air Compressor, heavy duty		3,000.00
Jack Hammer, hose & chisels		1,200.00
Mine pump & hoses		350.00
Geiger Counter		175.00
Ultra violet short wave battery light		79.00
Boots and rubber uniforms		300.00
Explosives	Dynamite - 1500 lbs. @ $35.00 per C	525.00
Electric Detonator		100.00
Lumber	5000 feet 1" sheeting, 2 x 4's, 2 x 6's, 2 x 8's	1,000.00
Windows		144.00
Doors	5 @ $20.00 each	100.00
Rolled Roofing	50 rolls - for roof & sides	250.00
Nails & Spikes	- 100 lbs.	24.00
Coal stoves	2 @ $100.00 each	200.00
Water Pump	Drinking & Sanitation	150.00
Small Tools & miscellaneous items	Forge, chisels, picks, shovels, wheelbarrows, etc. Fuel, extra labor, insurance, office equipment, supplies 200 ft. 1" cable and blocks, gravel for roads, etc.	5,500.00
Labor - Based on a six month period:		
	9 miners @ $1.00 per hour	9,360.00
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	TOTAL	$40,382.00

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

DEFENSE MINERALS ADMINISTRATION
REGION V

DMA-1911-Sargent, Burchard and LaFond Mining and Development Company

Republic, Marquette County, Michigan

Thomas L. Chapman and E. J. Martin
Mining Engineers
U. S. Bureau of Mines

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Nov. 1951

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Geiger Counter		175.00
Ultra violet short wave battery light		79.00
Boots and rubber uniforms		300.00
Explosives	Dynamite - 1500 lbs. @ $35.00 per C	525.00
Electric Detonator		100.00
Lumber	5000 feet 1" sheeting, 2 x 4's, 2 x 6's, 2 x 8's	1,000.00
Windows		144.00
Doors	5 @ $20.00 each	100.00
Rolled Roofing	50 rolls - for roof & sides	250.00
Nails & Spikes	- 100 lbs.	24.00
Coal stoves	2 @ $100.00 each	200.00
Water Pump	Drinking & Sanitation	150.00
Small Tools & miscellaneous items	Forge, chisels, picks, shovels, wheelbarrows, etc. Fuel, extra labor, insurance, office equipment, supplies 200 ft. 1" cable and blocks, gravel for roads, etc.	5,500.00
Labor - Based on a six month period:		
	9 miners @ $1.00 per hour	9,360.00
	1 Mining Engineer	3,600.00
	1 Mining Superintendant	3,600.00
	1 Administrator	3,600.00
	1 Foreman	3,000.00
	TOTAL	$40,382.00

FILE COPY
SURNAME:

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

Gordon
Bourret
Moore
Lyon

Mr. Thomas Sargent
1436 Peck Street
Muskegon Heights, Michigan

AUG 15 1951

Re: Uranium
DMA-1911

Dear Mr. Sargent:

Your application, Docket DMA-1911 for exploration project in the amount of $40,382.00 has been received by the Minor and Rare Metals Branch of the Supply Division.

Before adecision can be reached on your request we find it is necessary to obtain additional information on your property. Your application therefore is being referred to the office of the Executive Officer of DMA field team V, Mr. A. B. Needham, 2908 Colfax Avenue, South Minneapolis 8, Minnesota, with the request that the needed information be supplied to us.

Yours very truly,
SIGNED BJ 8-15

Tom Lyon, Director
Supply Division

EGordon/mh 8-13-51
cc: Adm. Read. File
Reports and Records
Lyon
Keiser, Hosted
Field team V
Bourret
DMA docket files

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

A.E.C.

Mr. Thomas Sargent
1436 Peck Street
Muskegon Heights, Michigan

Re: Uranium
DMA-1911

Dear Mr. Sargent:

Your application, Docket DMA-1911 for exploration project in the amount of $40,382.00 has been received by the Minor and Rare Metals Branch of the Supply Division.

Before a decision can be reached on your request we find it is necessary to obtain additional information on your property. Your application therefore is being referred to the office of the Executive Officer of DMA field team V, Mr. A. B. Needham, 2908 Colfax Avenue, South Minneapolis 8, Minnesota, with the request that the needed information be supplied to us.

Yours very truly,

Tom Lyon, Director
Supply Division

EGordon/mh 8-13-51
cc: Ad. Re d. File
Reports and Records
Lyon
Keiser, Hosted
Field team V
Beurret
DMA docket files

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

AUG 15 1951

Mr. A.B. Needham
2908 Colfax Avenue
South Minneapolis 8, Minnesota

Dear Sir:

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

Docket No. 1911

Commodity Uranium

Applicant Sargent, Burchard and LaFond Mining and Devel. Co.

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

Very truly yours,

Tom Lyon, Chairman
Coordinating Committee

For Bureau of Mines

For Geological Survey

6/5/51

Defense Minerals Administration

Review of Application for Exploration Assistance

Docket No. DMA - 1911

Commodity Uranium

Total Amount $40,382.00

Govt. Participation $36,343.80

1. Name and Address of Applicant Sargent, Burchard and LaPond Mining and Development Company, 1436 Peck Street, Muskegon Heights, Michigan

2. Location of Property Republic Township, Marquette County, Michigan

3. Mineral or metal Uranium Is it listed in Section 9 of MO-5? Yes

If not, application will be rejected.

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

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

a) Good

b) Poor

c) None

d) Don't know—needs field examination Report by field team is required.

e) Is there an alternative and favorable project? (If so, attach an explanation)

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

6. If applicant is a lessee, is a copy of the lease attached?

Does the lease have sufficient time to run to cover a future productive period?

*question numbers are those of MF-103

7. Are subordination agreements necessary?_____

a) MF-201?_____

b) MF-202_____

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

a) Available manpower_____

b) Equipment and supplies_____
(Question 14 plus general knowledge of availability)*

c) Accessibility (question 12)*_____

d) Water (question 13)*_____

e) Power (question 13)*_____

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

9. Does the experience of the applicant appear to be adequate to assure that he can properly conduct the proposed project? (question 4)*_____

_____

Is a field check needed on this point?_____

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

a) Is the project adequately described?_____

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

b) Is there an adequate map or sketch of the proposed work?_____

_____

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

If not, what part of it is?_____

_____

_____

_____

Is this part a worthwhile exploration project?_____

d) Are the cost estimates detailed?_____

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

e) Are the cost estimates reasonable?_____

f) Should more information be requested from applicant?_____

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

11. Exhibit B (question 23-d)*

a) Is it applicable?_____

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

c) Is a field check needed?_____

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

a) Is it applicable?_____

b) Sufficient data?_____ If so, attach a draft.

c) Are rents and charges reasonable?_____

d) Is a field check needed?_____ _____

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

a) Are there sufficient data?_____

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

c) Is the schedule excessive for the work proposed?_____

d) Are the proposed wages and salaries reasonable?_____

e) Is a field check needed?_____

14. Exhibit E (question 23-c)*

a) Is it applicable? _____

b) Sufficient data? _____

c) Reasonable? _____

d) Field check needed? _____

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

(All exploration must be completed within two years)

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

17. If field examination is needed, do you have any special instructions for the field team not indicated by your answers to the foregoing question? _____

No

If project is geologically recommendable, suggest telling applicants to submit a definite exploration outline. We seriously question need for four supervisors.

Reviewed by: R R Gordon

H W Keller U.S.G.S.

J. O. Hosted AEC

Date August 9, 1951

INT.-DUP. SEC., WASH., D.C. 99009

Form MF-103
(April 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

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

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

DO NOT FILL IN THIS BLOCK

Docket No. dma-1911

Date received 8/2/51

Participation

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
AUG 2 1951

Sargent, Burchard and LaFond
Mining and Development Company

Name and address of applicant

Date July 29, 1951

FILL IN THIS BLOCK

Date of application July 28, 1951

Estimated cost $40,382.00

Mineral or metal Metal

Percentage of Government participation 90%

Location of mine The East ½ of the Northwest ¼, Section 32, Township 47, Range 29 West, Republic Township, Marquette County, State of Michigan

Date of filing MF-100

DMA Docket Number, if available

INSTRUCTIONS

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

Answers to following questions are on attached sheets.

THE APPLICANT

*1. Is applicant an individual, partnership, or corporation?
*2. If a partnership, state names and addresses of partners.
*3. If a corporation, state names and addresses of officers, directors, and five largest stockholders.
*4. Describe the mining and general business experience of (*a*) the applicant, and (*b*) the person or persons who will manage the project.
*5. Are you the owner or the lessee of the property?
6. If owner, state what claims, liens, or encumbrances, if any, are against the property.
7. If lessee, attach a copy of the lease and state if it is in good standing.

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

8. Furnish current financial statement, showing assets and liabilities, and a profit and loss statement.
9. How much money is applicant prepared to invest in proposed project? Is it sufficient to pay your part of the cost of the project as detailed in question 23 of this application form, in accordance with the regulations on Government participation (Section 9 of Mineral Order 5)?

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

16—64067-1

THE PROPERTY

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

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

*11. State the present and former names of the property, if any.
*12. State, in detail, the location of the property with reference to towns, railroads, roads, shipping points, including distances and directions and kinds and conditions of roads.
*13. State source and quantity of water available for operations and its sufficiency at all seasons.
State amount of power to be used, rate per hour or other cost, and source.
*14. Describe any existing useable facilities, equipment, buildings, or structure now on the property that will be devoted to the exploration work.
15. State in detail how the ore could be shipped and how and where milled.
*16. History:
    (*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for any past suspensions of operations.
    (*b*) State briefly the known history and production of adjoining and neighboring properties.
    (*c*) Furnish any available (private) reports that may apply to this application, including results of mine examinations, recommended exploration and development, and metallurgical investigations.
*17. Production:
    (*a*) If mine is in production, furnish the following information:

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

*18. Ore or mineral reserves: (If property is or has been operating.)
    (*a*) Describe the ore or mineral deposits briefly.
    (*b*) Submit available maps and assay data.
    (*c*) Give estimated tonnage and grade of each class of ore reserves.
19. State any conditions or circumstances regarding the property not sufficiently brought out by the foregoing questions.

THE EXPLORATION

20. For what mineral or minerals and for what types of deposits and ores will the exploration be conducted?
21. Describe briefly, but concisely, the proposed work and the estimated time required to complete it.

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

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

THE REQUIREMENTS AND COSTS

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

CERTIFICATION

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

Sargent Burchard La Fond Mining Engineers Co. By Thomas Sargent
(Name of company) (Signature of authorized official)

July 27 1951 Chairman
(Date) (Title)

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

*Same as footnote on page 1.

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

Form MF-103

Sargent, Burchard & LaFond Mining and Development Company.

THE APPLICANT

1. Co-partnership. See Exhibits I and IA.

2. Thomas Sargent — 1436 Peck Street — Muskegon Heights, Michigan
George Burchard — R. R. #1 — Fruitport, Michigan
Donald LaFond — 1436 Peck Street — Muskegon Heights, Michigan

3. -----

4. The mining experience of Thomas Sargent is as follows:

From June, 1947, to the Spring of 1949, prospecting was done in the Counties of Delta, Schoolcraft, Alger and Marquette.

From April through August, 1949, he was employed by the U. S. Corps of Engineers, of Milwaukee, Wisconsin.

July 1, 1950, prospecting was again started in Marquette County, and on August 18th, radio active rock was discovered in Republic Twp. County of Marquette, and mining was commenced at once.

Approximately 100 tons of red granite rock was blasted out of an opening ten feet x ten feet at the top - eighteen feet deep, and bottoming to about four x six. At this point, operations ceased because of lack of money.

Apart from this experience, Mr. Sargent spent much time in reading Government pamphlets and all available literature on uranium mining, which included the Miners Handbook.

Business experience consisted in acting as foreman of logging crews and foreman in the construction of railroads for logging companies. Seven years was spent in this type of work. Mr. Sargent also has a Tool and Die Makers rating. He intends to manage the mining project himself.

5. Lessee. See Exhibit II, attached.

6. ------

7. Lease is in good standing. See Exhibit II, attached.

8. See Exhibit III, attached.

9. Applicant is prepared to invest $4,500.00.

10. (a) Real property is low, rugged, rocky land, with a highway running through it. No other mines or operating property in near vicinity.

(b) The West half of the Northwest quarter, Section 32, Township 47, Range 29 West, Republic Township, Marquette County, Michigan.

11. Known as Victor Toivonen's eighty.

12. Mine is located one and three-quarters South of the Village of Republic, in Republic Township, Marquette County, State of Michigan. The Chicago Northwestern Railroad is one and three-quarters mile away and passes through the Village of Republic. The State trunk line - black top road-Highway 95, is located one-quarter of a mile North. Supplying point is Republic, via railroad.

13. Creek - six to ten feet wide, one to three feet deep. Sufficient at all seasons. Power - undetermined at present, other than gasoline motors.

14. No existing equipment or buildings.

15. Ore could be shipped by railroad; milled at Grand Junction, Colorado, or at any other point the Atomic Energy Commission may designate.
(a)

16. From June, 1947, to Spring of 1949, prospecting was done in the Counties of Delta, Schoolcraft, Alger and Marquette. From April through August, 1949, Mr. Sargent was employed by the U. S. Corp of Engineers, at Milwaukee, Wisconsin.

From July 1, 1950, prospecting was started again in Marquette County, and on August 18th, radio active rock was discovered in Republic Township, Marquette County, Michigan, and mining was started at once.

Approximately 100 tons of red granite rock was blasted out of an opening ten feet x ten feet at the top, eighteen feet deep and bottoming to about four x six. At this point, operations ceased because of lack of money.

(b) At one time, iron ore was mined in Republic Township, but not at the present date.

(c) Report from the Casadonte Research Laboratory - 2410 Lake Avenue, North Muskegon, Michigan, attached, on bead test. See Exhibit IV, attached. Recommend an investigation by Government field man. Will be willing to meet Government representative at any time and any place, to show the mine.

17. -------

18. (a) Unable to answer until mine is under production.

(b) Map. See Exhibit V, attached.

(c) Not available until mine is under production.

19. Property has been described to best of applicant's ability in previous answers.

20. Uranium Oxide U3O8.

21. It is first contemplated to build a road from the mine to Highway 95, a distance of one-quarter mile. Then clear the premises about the mine set up buildings, consisting of a mine shelter and combination tool and office building. A catch basin must be constructed to keep the mine and vicinity dry. A pump will be needed later, when lower level of the mine is below basin level. Water will flow from basin into creek. Work will begin by enlarging the opening of the shaft and penetrating downward. See Exhibit VI, attached.

22. While prospecting with Geiger counter, discovered action coming from crevice of rock, which showed a count of more than three times its background. It was necessary to excavate eighteen feet before outcropping rock showed radio active. An assay was made of this rock which showed traces of uranium oxide U_3O_8. See Exhibit IV, attached.

23. (a) Nine miners, at $1.00 per hour.
(b) One Mining Engineer, at $600.00 per month. See Exhibit VII.
One Superintendent, at $600.00 per month.
One Administrator, at $600.00 per month.
One Foreman, at $500.00 per month.
(c) None
(d) Buildings $1,500.00
(e) Equipment 9,854.00 - Itemized statement on equipment, Exhibit IV.
(f) Bulldozer - Tractor - (heavy duty) Approximately $15.00 per hour.
(g) None
(h) Forge, chisels, picks, shovels, wheelbarrows, cables, hammers, fuel, etc. $5,500.00
(i) Power system and lights - 32 volts - Approximately $700.00.

24. Project is scheduled for six months after approval, at which time project should yield uranium ore at approximate cost of $40,382.00.

EXHIBIT #1

CERTIFICATE OF CO-PARTNERSHIP. 5043½ DOUBLEDAY BROTHERS & CO., KALAMAZOO, MICH.

CERTIFICATE OF CO-PARTNERSHIP

This Certifies that we, whose names are signed hereunder in full, are joined in co-partnership under the firm name of SARGENT-BURCHARD-LAFOND MINING AND DEVELOPMENT COMPANY
(Write on this line full name of your firm)
located at 1436 Peck Street, Muskegon Heights, State of Michigan;
(Give name of town on this line and if you are located in a city or village having street numbers, give your street and number)
that said co-partnership is to continue* for ten years
(If length of time co-partnership is to run has been agreed upon, write in time limit on this line, otherwise write in the words "for a time not limited by the co-partnership agreement," after the star above.)

SIGNATURES OF CO-PARTNERS	RESIDENCE OF CO-PARTNERS
Thomas Sargent	1436 Peck St., Muskegon Heights, Mich.
George Burchard	R.#1, Fruitport, Michigan
Donald LaFond	1436 Peck St., Muskegon Heights, Mich.

STATE OF MICHIGAN, } ss. I, George Burchard one of the co-partners of
COUNTY OF Marquette
the said firm of Sargent-Burchard-LaFond Mining and Development Company do hereby certify that all co-partners of said firm
(Write in name of firm on this line)
have herein above individually subscribed their respective names as witnessed by myself, and that the place of residence of each said co-partner as above written is true and correct.

(Signed) George Burchard One of the co-partners of above-named firm.

Subscribed and Sworn to before me this 26th day of August 1950 Mildred M. Johnson

My commission expires Aug. 30 1952 Notary Public, Marquette County, Mich.

EX - 1

STATE OF MICHIGAN.

COUNTY OF Marquette } SS.

I Mildred M. Johnson, Deputy Clerk of the County aforesaid and Clerk of the Circuit Court for said County, do hereby certify that I have compared the within copy of Certificate setting forth the full names of the persons owning, conducting or transacting business under the name of Sargent-Burchard-LaFond Mining and Development Company

together with the certificate of filing endorsed thereon, with the original Certificate heretofore filed and now remaining in my office, and that it is a true and correct copy thereof, and of the whole of such original Certificate and of said certificate of filing.

In Testimony Whereof, I have hereunto set my hand and affixed the seal of said Circuit Court, this 28th day of August 19 50

SEAL

Lloyd LeVesseur
County Clerk.

By Mildred M. Johnson
Deputy County Clerk

467

50431

CERTIFICATE OF CO-PARTNERSHIP

NAME OF CO-PARTNERSHIP

Sargent-Burchard-LaFond Mining and Development Company

Filed by

CLERK'S OFFICE, } SS.
Marquette COUNTY,

Indexed and filed this 28th day of August 19 50

Mildred M. Johnson
Deputy County Clerk.

BOLCHAY BROTHERS AND COMPANY
KALAMAZOO, MICHIGAN

EXHIBIT #1A

TO WHOM IT MAY CONCERN:

On the 26th day of July, 1950, we, the undersigned, George Burchard and Donald LaFond, co-partners, together with Tom Sargent, in a co-partnership, also known as the S. B. &. L. Mining & Development Company, 1436 Peck St., Muskegon Heights, Michigan, do hereby elect and appoint the said Tom Sargent, chairman of said co-partnership and S. B. &. L. Mining & Development Company, to act in all matters both executive and financial.

Witnesses: Signed

Albert V. Pentu — George Burchard

John Hawkinson — Donald LaFond

State of Michigan

County of Muskegon

On this 26th day of July, A.D. 1951, before me, a Notary Public in and for said County, personally appeared the within named George Burchard and Donald LaFond, to me known to be the same persons named in and who executed the within instrument, and acknowledge the same as their free act and deed.

Anton L. Zabel
Notary Public, Muskegon County, Michigan.

My commission expires

July 17 1954

EXHIBIT # I

LIBER 30 PAGE 601

PROSPECTING AND MINING LEASE

THIS LEASE, made this 24 day of August, 1960, between Viktor Toivonen and Aili Toivonen, husband and wife of Republic, Michigan, hereafter called the lessor, and the LESSEE-PURCHASE-LA FORD MINING AND DEVELOPMENT COMPANY, a corporation, of Michigan Heights, Michigan, hereinafter called the Lessee, Purchaser:

1. That the lessor, for and in consideration of the royalties hereinafter reserved and the covenants and agreements hereinafter mentioned, and by the said lessee to be kept and performed, hereby grants, demises and leases to the said lessee all the following described property situate in the county of Marquette State of Michigan, to wit:

West Half (W½) of the North west Quarter (NW¼) Section Thirty-Two (32) Township Forty Seven (47) North of Range Twenty Nine (29) West, and e containing Eighty (80) Acres more or Less, Excepting out of this lease all land s used as public Highway.

To have and to hold unto the said lessee the above described property, for the purpose of prospecting and mining all valuable matter ore therein contained, from the date hereof to the 24thday of August August, 1960, (at noon) and so long thereafter as valuable matter ore is found in paying quantities as determined by the lessee.

2. In consideration of this lease the lessee covents and agrees with the said lessor as follows:

(a) To pay to the lessor as a rental, the sum of [$10.00] ten dollars per year in advance, commencing with the date hereof, whether said premises are mined or not, and continuing for the term of this lease.

(b) To pay to the lessor as a royalty 15 percent of the net proceeds from the sale of all mineral and metal bearing ore as each

EXHIBIT #II

from said premises by the lessee during the term of this lease, royalty payments to be made by the lessee to the lessor as follows: royalty payment shall be made on the first day of the third following the month in which the first sale of finished or bagged ore made by the lessee from said premises, succeeding the month in which sale and each succeeding royalty payment shall be [illegible] thereafter.

[illegible] shall, and hereby does, assume all [illegible] or injury to the lessee, or any of his [illegible] mining operations of the lessee

[illegible] the said premises in good condition [illegible] and waste and damage from

[illegible] set our hands and seals this

[illegible] Mining and

[illegible]

[illegible] me, a notary public

[illegible] the above [illegible] of

[illegible] and the seal

[illegible]

[illegible]

EXHIBIT #IV

IV

Casadonte Research Laboratories

CHEMISTS AND METALLURGISTS

TESTING LABORATORIES DIVISION

PHONE 4497 2410 LAKE AVENUE

NORTH MUSKEGON, MICHIGAN

June 15, 1951

Thomas Sargent
1436 Peck St.
Muskegon Heights, Mich.

Dear Sir:

The Mineral specimen submitted to our laboratory for a Bead test, gave a positive result regarding the fluorescence and indicating the presence of radioactive material, in our opinon, uranium.

The fluorescence was very brilliant, when the bead was subjected to Utra-Violet light.

Yours Truly,
CASADONTE RESEARCH LABS
Anthony J. Casadonte
Anthony J. Casadonte
Owner-Director

AJC:MC

RCL

Increase Profits Thru Research

EXHIBIT # III

Dma 1911

FINANCIAL STATEMENT - SARGENT, BURCHARD & LA POND
MINING AND DEVELOPMENT COMPANY

As of December 31, 1950

CAPITAL	LIABILITIES	ASSETS
Sargent		$ 900.00
LaFond		900.00
Burchard		900.00
EXPENSES:		
Rent - 5 months @ $15.00	$ 75.00	
Food - Miners & Families 3 months @ $200.00	600.00	
Extra Labor	50.00	
Small Tools - picks, shovels, axes, chisels, etc.	400.00	
Dynamite - caps & fuses	125.00	
Trips to assay samples	310.00	
Geiger Counter	150.00	
Repairs to Geiger Counter	50.00	
Legal Matters	46.50	
Loss of Wages - Sargent	1,640.00	
LaFond	1,476.00	
Burchard	225.60	
Totals	$5,147.60	$ 2,700.00
Loss: $ 2,447.60		

EXHIBIT # ~~[illegible]~~ VI

EQUIPMENT NECESSARY FOR EXPLORATION OF PROPERTY

Truck	App.	$3,000.00
Bulldozer	75 hours at $15.00 per hour	1,125.00
Air Compressor, heavy duty		3,000.00
Jack Hammer, hose & chisels		1,200.00
Mine pump & hoses		350.00
Geiger Counter		175.00
Ultra violet short wave battery light		79.00
Boots and rubber uniforms		300.00
Explosives	Dynamite - 1500# @ $35.00 per C	525.00
Electric Detonator		100.00
Lumber	5000 feet 1" sheeting 2 x 4's, 2 x 6's, 2 x 8's	1,000.00
Windows		144.00
Doors	5 @ $20.00 each	100.00
Rolled Roofing	50 rolls - for roof & sides	250.00
Nails & Spikes	100#	24.00
Coal stoves	2 @ $100.00 each	200.00
Water Pump	Drinking & Sanitation	150.00
Small Tools & miscellaneous items	Forge, chisels, picks, shovels, wheelbarrows, etc. Fuel, extra labor, insurance, office equipment, supplies, 200 ft. 1" cable and blocks, gravel for roads, etc.	5,500.00
Labor - Based on a six month period:		
	9 miners @ $1.00 per hour	9,360.00
	1 Mining Engineer	3,600.00
	1 Mining Superintendent	3,600.00
	1 Administrator	3,600.00
	1 Foreman	3,000.00
	Total	$40,382.00

EXHIBIT # VII

ALASKA'S FOREMOST EXCLUSIVE FACTORY INFORMERS SERVING ALASKANS
REPRESENTING POINT BARROW NOME FAIRBANKS ANCHORAGE SEWARD JUNEAU KETCHIKAN KODIAK YUKON

LOUIS A. BIANCHI & CO.

IMPORTERS ★ DIRECT FACTORY REPRESENTATIVES ★ EXPORTERS
Established 1918 Executive Offices, Anchorage, Alaska
Railroad Terminal Yards
POST OFFICE BOX 281 ★ ANCHORAGE, ALASKA

REFERENCES:
UNION BANK
Anchorage, Alaska
AMERICAN EXPORTER
New York City
IMPORTERS GUIDE
New York City
COMMERCIAL MUSEUM
Philadelphia, Pennsylvania

CABLE: BIANCHI
TELEPHONE: GREEN 156

ASSOCIATES
IN ALL PRINCIPAL CITIES
OF THE WORLD

Formerly Detroit, Michigan

July 25, 1951
3200 Arlington Avenue
Muskegon, Michigan
Phone 55590

To Whom It May Concern:

Louis A. Bianchi Born April 25, 1910 , Marble Colorado USA.

AB degree in Business Administration, Commercial Law, Industrial management, Corporations, Interstate, Sales organization, advertising, Commerce, Traffic Accounting, Banking, Credits, Financing.

Also USA diplomatic service study. Speak, read, write all the romance languages, attended University of Paris France and Rome Italy. University of Alaska extension course in Mining in 1945, 1946, and 1947. University of Cuba short course in mining, related to the Island of Cuba, asphalt, petroleum, and nickel ores.

Have prospected, and mined in the United States, Canada, Cuba, Mexico, Italy on sulphur, and petroleum, Brazil, Island of the Pines of Cuba, Tungsten property, and All over Alaska, Nome, Fairbanks, Hot Springs, and Yukon and Tanana area.

Spent from 1945 to 1950 in Alaska, and have tin and gold placer claims in the Yukon and Tanana Area. In one area an positive of pitchblend, containing uranium and radium, the whole area in this respect, and a geology relating to same. Am familiar and have placer mined, lode, and dredge, and some hydraulic. Also familiar with stripping and clearing of overburden in certain type of mining operations. Alaska mining being some of the toughest in the world, due to transportation, and climate, makes for all types and forms of mining in order to extract the minerals that are desired.

The above covers only a highlight of myself in relations to my mining activities, and in relation to my business experience and training to carry those activities all over the world. Forever feel Alaska is a mining country, and once developed any mineral will be taken from this earth. For the last 25 years the writer with his mining activities has been engaged in supplying mining machinery, equipment, and supplies to the far corners of the earth.

References: May refer to you:
Mr. Frances T. Flynn, 307 Marquette St. Muskegon, Michigan
Mr. Emil J. Lacretti, Hackley Union Bank Bldg.
Andrew L. Bachman, Union Bank, Anchorage Alaska. Seward.
Antonio Aslet, Nome Alaska, Business man. Over 30 years.

ALASKA'S FOREMOST EXCLUSIVE CHOICE IMPORTERS SERVING ALASKANS
REPRESENTING POINT LARROW NOME FAIRBANKS ANCHORAGE SEWARD JUNEAU KETCHIKAN HOMER WRANGELL

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AMERICAN EXPORTER
New York City
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New York City
COMMERCIAL MUSEUM
Philadelphia, Pennsylvania

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ASSOCIATES
IN ALL PRINCIPAL CITIES
OF THE WORLD

Formerly Detroit, Michigan

To Whom It May Concern:

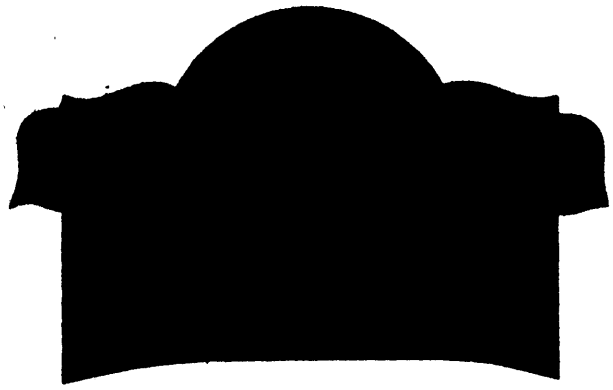
Should any further information be required, the writer will be pleased to render same.

Thanking you,

Very truly yours,

Louis A. Bianchi

LAB/



"WE GROW AS WE SERVE"

Form MF-103
(April 1951)

U. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

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

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

DO NOT FILL IN THIS BLOCK

Docket No. Dma-1911

Date received 8/2/51

Participation

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
AUG 2 1951

Sargent, Burchard and LaFond
Mining and Development Company

Name and address of applicant

Date July 29, 1951

FILL IN THIS BLOCK

Date of application July 28, 1951

Estimated cost $40,382.00

Mineral or metal Metal

Percentage of Government participation 90%

Location of mine The West ½ of the Northwest ¼,
Section 32, Township 47, Range 29 West, Republic Township, Marquette County, State of Michigan

Date of filing MF-100

DMA Docket Number, if available

INSTRUCTIONS

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

Answers to following questions are on attached sheets.

THE APPLICANT

*1. Is applicant an individual, partnership, or corporation?
*2. If a partnership, state names and addresses of partners.
*3. If a corporation, state names and addresses of officers, directors, and five largest stockholders.
*4. Describe the mining and general business experience of (*a*) the applicant, and (*b*) the person or persons who will manage the project.
*5. Are you the owner or the lessee of the property?
6. If owner, state what claims, liens, or encumbrances, if any, are against the property.
7. If lessee, attach a copy of the lease and state if it is in good standing.

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

8. Furnish current financial statement, showing assets and liabilities, and a profit and loss statement.
9. How much money is applicant prepared to invest in proposed project? Is it sufficient to pay your part of the cost of the project as detailed in question 23 of this application form, in accordance with the regulations on Government participation (Section 9 of Mineral Order 5)?

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

16—64067-1

THE PROPERTY

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

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

*11. State the present and former names of the property, if any.
*12. State, in detail, the location of the property with reference to towns, railroads, roads, shipping points, including distances and directions and kinds and conditions of roads.
*13. State source and quantity of water available for operations and its sufficiency at all seasons.
State amount of power to be used, rate per hour or other cost, and source.
*14. Describe any existing useable facilities, equipment, buildings, or structure now on the property that will be devoted to the exploration work.
15. State in detail how the ore could be shipped and how and where milled.
*16. History:
    (*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for any past suspensions of operations.
    (*b*) State briefly the known history and production of adjoining and neighboring properties.
    (*c*) Furnish any available (private) reports that may apply to this application, including results of mine examinations, recommended exploration and development, and metallurgical investigations.
*17. Production:
    (*a*) If mine is in production, furnish the following information:

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

*18. Ore or mineral reserves: (If property is or has been operating.)
    (*a*) Describe the ore or mineral deposits briefly.
    (*b*) Submit available maps and assay data.
    (*c*) Give estimated tonnage and grade of each class of ore reserves.
19. State any conditions or circumstances regarding the property not sufficiently brought out by the foregoing questions.

THE EXPLORATION

20. For what mineral or minerals and for what types of deposits and ores will the exploration be conducted?
21. Describe briefly, but concisely, the proposed work and the estimated time required to complete it.

    NOTE.—The Government will not participate in a project that will require more than 2 years to complete.
22. Furnish statement of the geological basis of the project with particular emphasis on factors leading the operator to expect the finding of commercial ore bodies. This statement should be accompanied by supporting maps such as geological maps, maps of the proposed openings and assay maps, sample lists, and other pertinent data.

THE REQUIREMENTS AND COSTS

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

CERTIFICATION

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

Laurent Duchard LaFond Mining & Development Co
(Name of company)

By Thomas Tarsent
(Signature of authorized official)

July 27 1951
(Date)

Chairman
(Title)

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

*Same as footnote on page 1.

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

Form MF-103

Sargent, Burchard LaFond Mining and Development Company.

THE APPLICANT

rship. See Exhibits I and IA.

	Co-Sargent	1436 Peck Street	Muskegon Heights, Michigan
1.	Burchard	R. R. #1	Fruitport, Michigan
2.	d LaFond	1436 Peck Street	Muskegon Heights, Michigan

e mining experience of Thomas Sargent is as follows:

From June, 1947, to the Spring of 1949, prospecting was done in the Counties of Delta, Schoolcraft, Alger and Marquette.

From April through August, 1949, he was employed by the U. S. Corps of Engineers, of Milwaukee, Wisconsin.

July 1, 1950, prospecting was again started in Marquette County, and on August 18th, radio active rock was discovered in Republic Twp. County of Marquette, and mining was commenced at once.

Approximately 100 tons of red granite rock was blasted out of an opening ten feet x ten feet at the top - eighteen feet deep, and bottoming to about four x six. At this point, operations ceased because of lack of money.

Apart from this experience, Mr. Sargent spent much time in reading Government pamphlets and all available literature on uranium mining, which included the Miners Handbook.

Business experience consisted in acting as foreman of logging crews and foreman in the construction of railroads for logging companies. Seven years was spent in this type of work. Mr. Sargent also has a Tool and Die Makers rating. He intends to manage the mining project himself.

5. Lessee. See Exhibit II, attached.

6. ------

7. Lease is in good standing. See Exhibit II, attached.

8. See Exhibit III, attached.

9. Applicant is prepared to invest $4,500.00.

10. (a) Real property is low, rugged, rocky land, with a highway running through it. No other mines or operating property in near vicinity.

(b) The West half of the Northwest quarter, Section 32, Township 47, Range 29 West, Republic Township, Marquette C ounty, Michigan.

11. Known as Victor Toivonen's eighty.

12. Mine is located one and three-quarters South of the Village of Republic, in Republic Township, Marquette C ounty, State of Michigan. The Chicago Northwestern Railroad is one and three-quarters mile away and passes through the Village of Republic. The State trunk line - black top road-Highway 95, is located one-quarter of a mile North. Supplying point is Republic, via railroad.

13. Creek - six to ten feet wide, one to three feet deep. Sufficient at all seasons. Power - undetermined at present, other than gasoline motors.

14. No existing equipment or buildings.

15. Ore could be shipped by railroad; milled at Grand Junction, Colorado, or at any other point the Atomic Energy Commission may designate.

16. (a) From June, 1947, to Spring of 1949, prospecting was done in the Counties of Delta, Schoolcraft, Alger and Marquette. From April through August, 1949, Mr. Sargent was employed by the U. S. Corp of Engineers, at Milwaukee, Wisconsin.

From July 1, 1950, prospecting was started again in Marquette County, and on August 18th, radio active rock was discovered in Republic Township, Marquette County, Michigan, and mining was started at once.

Approximately 100 tons of red granite rock was blasted out of an opening ten feet x ten feet at the top, eighteen feet deep and bottoming to about four x six. At this point, operations ceased because of lack of money.

(b) At one time, iron ore was mined in Republic Township, but not at the present date.

(c) Report from the Casadonte Research Laboratory - 2410 Lake Avenue, North Muskegon, Michigan, attached, on bead test. See Exhibit IV, attached. Recommend an investigation by Government field man. Will be willing to meet Government represen ative at any time and any place, to show the mine.

17. -------

18. (a) Unable to answer until mine is under production.

(b) Map. See Exhibit V, attached.

(c) Not available until mine is under production.

19. Property has been described to best of applicant's ability in previous answers.

20. Uranium Oxide U308.

21. It is first contemplated to build a road from the mine to Highway 95, a distance of one-quarter mile. Then clear the premises about the mine set up buildings, consisting of a mine shelter and combination tool and office building. A catch basin must be constructed to keep the mine and vicinity dry. A pump will be needed later, when lower level of the mine is below basin level. Water will flow from basin into creek. Work will begin by enlarging the opening of the shaft and penetrating downward. See Exhibit VI, attached.

22. While prospecting with Geiger counter, discovered action coming from crevice of rock, which showed a count of more than three times its background. It was necessary to excavate eighteen feet before outcropping rock showed radio active. An assay was made of this rock which showed traces of uranium oxide U308. See Exhibit IV, attached.

23. (a) Nine miners, at $1.00 per hour.
(b) One Mining Engineer, at $600.00 per month. See Exhibit VII.
One Superintendent, at $600.00 per month.
One Administrator, at $600.00 per month.
One Foreman, at $500.00 per month.
OK at 300
(c) None
(d) Buildings $1,500.00
(e) Equipment 9,854.00 - Itemized statement on equipment, Exhibit IV.
(f) Bulldozer & Tractor - (heavy duty) Approximately $15.00 per hour.
(g) None
(h) Forge, chisels, picks, shovels, wheelbarrows, cables, hammers, fuel, etc. $5,500.00
(i) Power system and lights - 32 volts - Approximately $700.00.

24. Project is scheduled for six months after approval, at which time project should yield uranium ore at approximate cost of $40,382.00.

EXHIBIT #1

CERTIFICATE OF CO-PARTNERSHIP. 5043½ DOUBLEDAY BROTHERS & CO., KALAMAZOO, MICH.

CERTIFICATE OF CO-PARTNERSHIP

This Certifies that we, whose names are signed hereunder in full, are joined in co-partnership under the firm name of SARGENT-BURCHARD-LAFOND MINING AND DEVELOPMENT COMPANY
(Write on this line full name of your firm)
located at 1436 Peck Street, Muskegon Heights, State of Michigan;
(Give name of town on this line and if you are located in a city or village having street numbers, give your street and number)
that said co-partnership is to continue* for ten years
(If length of time co-partnership is to run has been agreed upon, write in time limit on this line, otherwise write in the words "for a time not limited by the co-partnership agreement," after the star above.)

SIGNATURES OF CO-PARTNERS	RESIDENCE OF CO-PARTNERS
Thomas Sargent	1436 Peck St., Muskegon Heights, Mich.
George Burchard	R.#1, Fruitport, Michigan
Lonald LaFond	1436 Peck St., Muskegon Heights, Mich.

STATE OF MICHIGAN, } ss. I, George Burchard one of the co-partners of
COUNTY OF Marquette
the said firm of Sargent-Burchard-LaFond Mining and Development Company do hereby certify that all co-partners of said firm
(Write in name of firm on this line)
have herein above individually subscribed their respective names as witnessed by myself, and that the place of residence of each said co-partner as above written is true and correct.

(Signed) George Burchard One of the co-partners of above-named firm.

Subscribed and Sworn to before me this 26th day of August 1950 Mildred M. Johnson

My Commission Expires Aug. 30 1952 Notary Public, Marquette County, Mich.

EX - 1

STATE OF MICHIGAN,

COUNTY OF Marquette } SS.

I Mildred M. Johnson, Deputy Clerk of the County aforesaid and Clerk of the Circuit Court for said County, do hereby certify that I have compared the within copy of Certificate setting forth the full names of the persons owning, conducting or transacting business under the name of Sargent-Burchard-LaFond Mining and Development Company

together with the certificate of filing endorsed thereon, with the original Certificate heretofore filed and now remaining in my office, and that it is a true and correct copy thereof, and of the whole of such original Certificate and of said certificate of filing.

In Testimony Whereof, I have hereunto set my hand and affixed the seal of said Circuit Court, this 28th day of August 19 50

SEAL

Lloyd LeVasseur
County Clerk.

By Mildred M. Johnson
Deputy County Clerk

467

5043

CERTIFICATE OF CO-PARTNERSHIP

NAME OF CO-PARTNERSHIP

Sargent-Burchard-LaFond Mining and Development Company

Filed by

CLERK'S OFFICE,
Marquette COUNTY, } SS.

Indexed and filed this 28th day of August 19 50

Alfred M. Johnson
Dep. County Clerk.

BLOMAY BROTHERS AND COMPANY
KALAMAZOO, MICHIGAN

EXHIBIT #1A

TO WHOM IT MAY CONCERN:

On the 26th day of July, 1950, we, the undersigned, George Burchard and Donald LaFond, co-partners, together with Tom Sargent, in a co-partnership, also known as the S. B. &. L. Mining & Development Company, 1436 Peck St., Muskegon Heights, Michigan, do hereby elect and appoint the said Tom Sargent, chairman of said co-partnership and S. B. &. L. Mining & Development Company, to act in all matters both executive and financial.

Witnesses: Signed

Albert V Putler George Burchard

John Hawkinson Donald LaFond

State of Michigan

County of Muskegon

On this 26th day of July, A.D. 1951, before me, a Notary Public in and for said County, personally appeared the within named George Burchard and Donald LaFond, to me known to be the same persons named in and who executed the within instrument, and acknowledge the same as their free act and deed.

Anton L Zabel

Notary Public, Muskegon County, Michigan.

My commission expires

July 17 1954

EXHIBIT #IV

IV

Casadonte Research Laboratories

CHEMISTS AND METALLURGISTS

TESTING LABORATORIES DIVISION

PHONE 4497 2410 LAKE AVENUE

NORTH MUSKEGON, MICHIGAN

June 15, 1951

Thomas Sargent
1436 Peck St.
Muskegon Heights, Mich.

Dear Sir:

The Mineral specimen submitted to our laboratory for a Bead test, gave a positive result regarding the fluorescence and indicating the presence of radioactive material, in our opinon, uranium.

The fluorescence was very brilliant, when the bead was subjected to Utra-Violet light.

Yours Truly,
CASADONTE RESEARCH LABS
Anthony J. Casadonte
Anthony J. Casadonte
Owner-Director

AJC:MC

RCL

Increase Profits Thru Research

EXHIBIT III

FINANCIAL STATEMENT - SARGENT, BURCHARD & LA FOND
MINING AND DEVELOPMENT COMPANY

As of December 31, 1950

CAPITAL		LIABILITIES	ASSETS
Sargent			$ 900.00
LaFond			900.00
Burchard			900.00
EXPENSES:			
Rent - 5 months @ $15.00		$ 75.00	
Food - Miners & Families 3 months @ $200.00		600.00	
Extra Labor		50.00	
Small Tools - picks, shovels, axes, chisels, etc.		400.00	
Dynamite - caps & fuses		125.00	
Trips to assay samples		310.00	
Geiger Counter		150.00	
Repairs to Geiger Counter		50.00	
Legal Matters		46.50	
Loss of Wages -	Sargent	1,640.00	
	LaFond	1,476.00	
	Burchard	225.60	
			$ 2,700.00
Totals		$5,147.60	
Loss:	$ 2,447.60		

EXHIBIT # II

Liber 30

PROSPECTING AND MINING LEASE

THIS LEASE, made this 24 day of August, 1950, between Victor Toivonen and Alli Toivonen, husband and wife of Republic, Michigan, hereafter called the lessor, and the SARGENT-BURCHARD-LA FOND MINING AND DEVELOPMENT COMPANY, a co-partnership, of Muskegon Heights, Michigan, hereinafter called the lessee, WITNESSETH:

1. That the lessor, for and in consideration of the royalties hereinafter reserved and the covenents and agreements hereinafter expressed, and by the said lessee to be kept and performed, hereby grants, demises and lets to the said lessee all the following described property, situate in the county of Marquette State of Michigan, to wit:

West Half (W½) of the North west Quarter (NW¼) Section Thirty-Two (32) Township Forty Seven (47) North of Range Twenty Nine (29) West, and containing Eighty (80) Acres more or less. Excepting out of this lease all land used as public Highway.

To have and to hold unto to the said lessee the above described property, for the purpose of prospecting and mining all radio active ore therein contained, from the date hereof to the 24th day of August, 1950, (at noon) and so long thereafter as radio active ore is found in paying quantities as determined by the lessee.

2. In consideration of this lease the lessee covents and agrees with the said lessor as follows:

(a) To pay to the lessor as a rental, the sum of ($10.00) ten dollars per year in advance, commencing with the date hereof, whether said premises are mined or not, and continuing for the term of this lease.

(b) To pay to the lessor as a royalty 10 percent of the net proceeds from the sale of all mineral and metal bearing ore or rock

EXHIBIT #II

removed from said premises by the lessee during the term of this lease, said royalty payments to be made by the lessee to the lessor as follows: The first royalty payment shall be made on the first day of the third month following the month in which the first sale of mineral or metal ore or rock is made by the lessee from said premises, not counting the month in which such sale is made and each succeeding royalty payment shall be made at the expiration of each three month period thereafter.

(c) That the lessee shall, and hereby does, assume all responsibility in case of accident or injury to the lessee, or any of his employees incurred in the prospecting or mining operations of the lessee on said said property.

(d) To deliver to the lessor, the said premises in good condition at the expiration of this lease, reasonable wear and tear and damage from mining operations excepted.

IN WITNESS WHEREOF WE HAVE hereinto set our hands and seals this 24 day of August, 1950.

In the presence of:

George Nisula

Leo Nurmi

Victor Toivonen Aili Toivonen
Lessor

The Sargent-Burchard-La Fond Mining and Development Company

by: Thomas Sargent
a partner thereof.

STATE OF MICHIGAN } SS
County of Marquette }

On the 24 day of August, 1950, before me, a notary Public in and for said county and state, came Victor Toivonen & Aili Toivonen and Thomas Sargent to me personally known to be the identical persons who executed the above and forgoing instrument, and who each duly acknowledged the execution of the same.

In witness whereof, my hand and seal this 24 day of August, 1950

My commission expires November 15, 1950.

George Nisula
Notary Public, Marquette County, Mich.

GEORGE NIKKA NURMINEN
NOTARY PUBLIC
MARQUETTE COUNTY, MICHIGAN

EXHIBIT # VII

ALASKA'S FOREMOST EXCLUSIVE FACTORY IMPORTERS SERVING ALASKANS
REPRESENTING POINT BARROW NOME FAIRBANKS ANCHORAGE SEWARD JUNEAU KETCHIKAN KODIAK YUKON

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Philadelphia, Pennsylvania

CABLE: BIANCHI
TELEPHONE: GREEN 195

ASSOCIATES
IN ALL PRINCIPAL CITIES
OF THE WORLD

Formerly Detroit, Michigan

July 25, 1951
3200 Arlington Avenue
Muskegon, Michigan
Phone 55590

To Whom It May Concern:

Louis A. Bianchi Born April 25, 1910 , Marble Colorado USA.

AB degree in Business Administration, Commercial Law, Industrial management, Corporations, Interstate, Sales Organization, Advertising, Commerce, Traffic Accounting, Banking, Credits, Financing.

Also USA diplomatic service study. Speak, read, write all the romance languages, attended University of Paris France and Rome Italy. University of Alaska extension course in Mining in 1946, 1946, and 1947. University of Cuba short course in mining, related to the Island of Cuba, asphalt, petroleum, and nickel ores.

Have prospected, and mined in the United States, Canada, Cuba, Mexico, Italy on sulphur, and petroleum, Brazil, Island of the Pines of Cuba, tungsten property, and All over Alaska, Nome, Fairbanks, Hot springs, and Yukon and Kenana area.

Spent from 1945 to 1950 in Alaska, and have tin and gold placer claims in the Yukon and Kenana Area. In one area an positive of pitchblend, containing uranium and radium. The whole area in this prospect, mine & geology relating to same. Am familiar and have placer mined, lode, and dredge, and some hydraulic. Also familiar with stripping and clearing of overburden in certain type of mining operations. Alaska mining being some of the toughest in the world, due to transportation, and climate, makes for all types and forms of mining in order to extract the minerals that are desired.

The above covers only a highlight of myself in relations to my mining activities, and in relation to my business experience has enabled me to carry these activities all over the world. However feel Alaska is a mining country, and once developed any mineral will be taken from it's earth. For the last 10 years the writer with his mining activities has been engaged in supplying mining machinery, equipment, and supplies to the far corners of the earth.

References: By refer to you:
Fr. Francis J. Flynn, 307 Marquette St. Muskegon, Michigan.
Mr. Emil J. Lucretti, Lachey Union Bank Bldg.
Andrew J. Hartman, Union Bank, Anchorage Alaska
Antonio Aclet, Nome Alaska, Business man. Nome 50 years.

"WE GROW AS WE SERVE"

ALASKA'S FOREMOST EXCLUSIVE STORE IMPORTERS SERVING ALASKANS
REPRESENTING SOUTH NARROW NOME FAIRBANKS ANCHORAGE SEWARD JUNEAU KETCHIKAN KODIAK VALDEZ

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Dealers in Furs - Ivory

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IN ALL PRINCIPAL CITIES
OF THE WORLD

Formerly Sitka, Alaska

To Whom It May Concern:

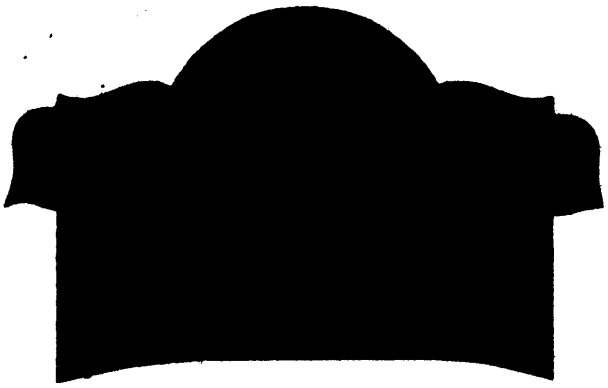
Should any further information be required, the writer will be pleased to render same.

Thanking you,

Very truly yours,

Louis A. Bianchi

LAB/



"WE GROW AS WE SERVE"

Form MF-103
(April 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

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

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

DO NOT FILL IN THIS BLOCK

Docket No. dma-1911

Date received 8/2/51

Participation

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
AUG 2 1951

Sargent, Burchard and LaFond
Mining and Development Company

Name and address of applicant

Date July 29, 1951

FILL IN THIS BLOCK

Date of application July 28, 1951

Estimated cost $40,382.00

Mineral or metal Metal

Percentage of Government participation 90%

Location of mine The West ½ of the Northwest ¼, Section 32, Township 47, Range 29 West, Republic Township, Marquette County, State of Michigan

Date of filing MF-100

DMA Docket Number, if available

INSTRUCTIONS

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

Answers to following questions are on attached sheets.

THE APPLICANT

*1. Is applicant an individual, partnership, or corporation?
*2. If a partnership, state names and addresses of partners.
*3. If a corporation, state names and addresses of officers, directors, and five largest stockholders.
*4. Describe the mining and general business experience of (*a*) the applicant, and (*b*) the person or persons who will manage the project.
*5. Are you the owner or the lessee of the property?
6. If owner, state what claims, liens, or encumbrances, if any, are against the property.
7. If lessee, attach a copy of the lease and state if it is in good standing.

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

8. Furnish current financial statement, showing assets and liabilities, and a profit and loss statement.
9. How much money is applicant prepared to invest in proposed project? Is it sufficient to pay your part of the cost of the project as detailed in question 23 of this application form, in accordance with the regulations on Government participation (Section 9 of Mineral Order 5)?

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

16—64067-1

THE PROPERTY

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

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

*11. State the present and former names of the property, if any.
*12. State, in detail, the location of the property with reference to towns, railroads, roads, shipping points, including distances and directions and kinds and conditions of roads.
*13. State source and quantity of water available for operations and its sufficiency at all seasons.
State amount of power to be used, rate per hour or other cost, and source.
*14. Describe any existing useable facilities, equipment, buildings, or structure now on the property that will be devoted to the exploration work.
15. State in detail how the ore could be shipped and how and where milled.
*16. History:
    (*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for any past suspensions of operations.
    (*b*) State briefly the known history and production of adjoining and neighboring properties.
    (*c*) Furnish any available (private) reports that may apply to this application, including results of mine examinations, recommended exploration and development, and metallurgical investigations.
*17. Production:
    (*a*) If mine is in production, furnish the following information:

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

*18. Ore or mineral reserves: (If property is or has been operating.)
    (*a*) Describe the ore or mineral deposits briefly.
    (*b*) Submit available maps and assay data.
    (*c*) Give estimated tonnage and grade of each class of ore reserves.
19. State any conditions or circumstances regarding the property not sufficiently brought out by the foregoing questions.

THE EXPLORATION

20. For what mineral or minerals and for what types of deposits and ores will the exploration be conducted?
21. Describe briefly, but concisely, the proposed work and the estimated time required to complete it.

    NOTE.—The Government will not participate in a project that will require more than 2 years to complete.
22. Furnish statement of the geological basis of the project with particular emphasis on factors leading the operator to expect the finding of commercial ore bodies. This statement should be accompanied by supporting maps such as geological maps, maps of the proposed openings and assay maps, sample lists, and other pertinent data.

THE REQUIREMENTS AND COSTS

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

CERTIFICATION

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

Sargent Cardiac Lateral Mining & Development Co
(Name of company)

By Thomas Sargent
(Signature of authorized official)

July 27 1951
(Date)

Chairman
(Title)

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

*Same as footnote on page 1.

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

Form MF-103

Sargent, Burchard & LaFond Mining and Development Company

THE APPLICANT

1. Co-partnership. See Exhibits I and IA.

2.

Thomas Sargent	1436 Peck Street	Muskegon Heights, Michigan
George Burchard	R. R. #1	Fruitport, Michigan
Donald LaFond	1436 Peck Street	Muskegon Heights, Michigan

3. -----

4. The mining experience of Thomas Sargent is as follows:

From June, 1947, to the Spring of 1949, prospecting was done in the Counties of Delta, Schoolcraft, Alger and Marquette.

From April through August, 1949, he was employed by the U. S. Corps of Engineers, of Milwaukee, Wisconsin.

July 1, 1950, prospecting was again started in Marquette County, and on August 18th, radio active rock was discovered in Republic Twp. County of Marquette, and mining was commenced at once.

Approximately 100 tons of red granite rock was blasted out of an opening ten feet x ten feet at the top - eighteen feet deep, and bottoming to about four x six. At this point, operations ceased because of lack of money.

Apart from this experience, Mr. Sargent spent much time in reading Government pamphlets and all available literature on uranium mining, which included the Miners Handbook.

Business experience consisted in acting as foreman of logging crews and foreman in the construction of railroads for logging companies. Seven years was spent in this type of work. Mr. Sargent also has a Tool and Die Makers rating. He intends to manage the mining project himself.

5. Lessee. See Exhibit II, attached.

6. ------

7. Lease is in good standing. See Exhibit II, attached.

8. See Exhibit III, attached.

9. Applicant is prepared to invest $4,500.00.

10. (a) Real property is low, rugged, rocky land, with a highway running through it. No other mines or operating property in near vicinity.

(b) The West half of the Northwest quarter, Section 32, Township 47, Range 29 West, Republic Township, Marquette County, Michigan.

11. Known as Victor Toivonen's eighty.

12. Mine is located one and three-quarters South of the Village of Republic, in Republic Township, Marquette C ounty, State of Michigan. The Chicago Northwestern Railroad is one and three-quarters mile away and passes through the Village of Republic. The State trunk line - black top road-Highway 95, is located one-quarter of a mile North. Supplying point is Republic, via railroad.

13. Creek - six to ten feet wide, one to three feet deep. Sufficient at all seasons. Power - undetermined at present, other than gasoline motors.

14. No existing equipment or buildings.

15. Ore could be shipped by railroad; milled at Grand Junction, Colorado, or at any other point the Atomic Energy Commission may designate.

(a)

16. From June, 1947, to Spring of 1949, prospecting was done in the Counties of Delta, Schoolcraft, Alger and Marquette. From April through August, 1949, Mr. Sargent was employed by the U. S. Corp of Engineers, at Milwaukee, Wisconsin.

From July 1, 1950, prospecting was started again in Marquette County, and on August 18th, radio active rock was discovered in Republic Township, Marquette County, Michigan, and mining was started at once.

Approximately 100 tons of red granite rock was blasted out of an opening ten feet x ten feet at the top, eighteen feet deep and bottoming to about four x six. At this point, operations ceased because of lack of money.

(b) At one time, iron ore was mined in Republic Township, but not at the present date.

(c) Report from the Casadonte Research Laboratory - 2410 Lake Avenue, North Muskegon, Michigan, attached, on bead test. See Exhibit IV, attached. Recommend an investigation by Government field man. Will be willing to meet Government represen ative at any time and any place, to show the mine.

17. -------

18. (a) Unable to answer until mine is under production.

(b) Map. See Exhibit V, attached.

(c) Not available until mine is under production.

19. Property has been described to best of applicant's ability in previous answers.

20. Uranium Oxide U308.

21. It is first contemplated to build a road from the mine to Highway 95, a distance of one-quarter mile. Then clear the premises about the mine set up buildings, consisting of a mine shelter and combination tool and office building. A catch basin must be constructed to keep the mine and vicinity dry. A pump will be needed later, when lower level of the mine is below basin level. Water will flow from basin into creek. Work will begin by enlarging the opening of the shaft and penetrating downward. See Exhibit VI, attached.

22. While prospecting with Geiger counter, discovered action coming from crevice of rock, which showed a count of more than three times its background. It was necessary to excavate eighteen feet before outcropping rock showed radio active. An assay was made of this rock which showed traces of uranium oxide U3O8. See Exhibit IV, attached.

23. (a) Nine miners, at $1.00 per hour.
(b) One Mining Engineer, at $600.00 per month. See Exhibit VII.
One Superintendent, at $600.00 per month.
One Administrator, at $600.00 per month.
One Foreman, at $500.00 per month.
(c) None
(d) Buildings $1,500.00
(e) Equipment 9,854.00 - Itemized statement on equipment, Exhibit IV.
(f) Bulldozer & Tractor - (heavy duty) Approximately $15.00 per hour.
(g) None
(h) Forge, chisels, picks, shovels, wheelbarrows, cables, hammers, fuel, etc. $5,500.00
(i) Power system and lights - 32 volts - Approximately $700.00.

24. Project is scheduled for six months after approval, at which time project should yield uranium ore at approximate cost of $40,382.00.

Form MF-103
(April 1951)

U. DEPARTMENT OF THE INTERI

DEFENSE MINERALS ADMINISTRATION

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

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

DO NOT FILL IN THIS BLOCK

Docket No. DMA-1911

Date received 8/2/51

Participation

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
AUG 2 1951

Name and address of applicant

Sargent, Burchard and LaFond
Mining and Development Company

Date July 29, 1951

FILL IN THIS BLOCK

Date of application July 28, 1951

Estimated cost $40,382.00

Mineral or metal Metal

Percentage of Government participation 90%

Location of mine The East ½ of the Northwest ¼,
Section 32, Township 47, Range 29 West, Republic Township, Marquette County, State of Michigan

Date of filing MF-100

DMA Docket Number, if available

INSTRUCTIONS

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

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THE APPLICANT

*1. Is applicant an individual, partnership, or corporation?
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16—64067-1

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CERTIFICATION

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

Lawrence Cardwood La Fond Mining Development Co
(Name of company)

By Thomas Lawrence
(Signature of authorized official)

July 27 1951
(Date)

Chairman
(Title)

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

*Same as footnote on page 1.

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

Form MF-103

Sargent, Burchard & LaFond Mining and Development Company

THE APPLICANT

1. Co-partnership. See Exhibits I and IA.

2. Thomas Sargent — 1436 Peck Street — Muskegon Heights, Michigan
George Burchard — R. R. #1 — Fruitport, Michigan
Donald LaFond — 1436 Peck Street — Muskegon Heights, Michigan

3. -----

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(b) Map. See Exhibit V, attached.

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19. Property has been described to best of applicant's ability in previous answers.

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(b) One Mining Engineer, at $600.00 per month. See Exhibit VII.
One Superintendent, at $600.00 per month.
One Administrator, at $600.00 per month.
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(c) None
(d) Buildings $1,500.00
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(f) Bulldozer - Tractor - (heavy duty) Approximately $15.00 per hour.
(g) None
(h) Forge, chisels, picks, shovels, wheelbarrows, cables, hammers, fuel, etc. $5,500.00
(i) Power system and lights - 32 volts - Approximately $700.00.

24. Project is scheduled for six months after approval, at which time project should yield uranium ore at approximate cost of $40,382.00.

August 6, 1951

Mr. Thomas Sargent
1436 Peck Street
Muskegon Heights, Michigan

Subject: DMA-1911
Re: Exploration Loan -
Victor Toivonen's eighty

My dear Mr. Sargent:

Receipt is acknowledged of your application and attachments of July 29, 1951 for an exploration loan under the Defense Production Act of 1950.

The application was assigned Docket Number DMA-1911 and referred to Mr. Weston Bourret, Chief, Minor and Rare Metals Branch on August 3, 1951.

In any future correspondence relating to your application, kindly refer to DMA-1911.

Sincerely yours,

SIGNED gBT 8/6

Robert E. Adams
Chief, Reports & Records Unit

REAdams:jc
cc: Bourret
Lyon
✓Reports & Records File

EXHIBIT # VII

ALASKA'S FOREMOST EXCLUSIVE FACTORY IMPORTERS SERVING ALASKANS
REPRESENTING PT. BARROW NOME FAIRBANKS ANCHORAGE SEWARD JUNEAU KETCHIKAN KODIAK YAKUTAT

LOUIS A. BIANCHI & CO.

IMPORTERS ★ DIRECT FACTORY REPRESENTATIVES ★ EXPORTERS

Established 1916 Executive Offices Anchorage, Alaska Air Connections Thru World
Railroad Terminal Yukon

POST OFFICE BOX 281 ★ ANCHORAGE, ALASKA

REFERENCES:
NATIONAL BANK of Anchorage, Alaska
AMERICAN EXPORTER New York City
IMPORTERS GUIDE New York City
COMMERCIAL MUSEUM Philadelphia, Pennsylvania

CABLE: BIANCHI
TELEPHONE: GREEN 225

ASSOCIATES IN ALL PRINCIPAL CITIES OF THE WORLD

Formerly Detroit, Michigan

July 25, 1951
3200 Arlington Avenue
Muskegon, Michigan
Phone 55590

To Whom It May Concern:

Louis A. Bianchi Born April 28, 1910 , Marble Colorado USA.

AB degree in Business Administration, Comercial Law, Industrial management, Corporations, Interstate, Sales Organization, Advertising, Commerce, Traffic Accounting, Banking, Credits, Financing.

Also USA diplomatic service study. Speak, read, write all the romance languages, attended University of Paris France and Rome Italy. University of Alaska extension course in Mining in 1945, 1946, and 1947. University of Cuba short course in mining, related to the Island of Cuba, asphalt, petroleum, and nickel ores.

Have prospected, and mined in the United States, Canada, Cuba, Mexico, Italy on sulphur, and petroleum, Brazil, Island of the Mines of Cuba, Tungsten property, and All over Alaska, Nome, Fairbanks, Hot Springs, and Yukon and Tanana area.

Spent from 1945 to 1950 in Alaska, and have tin and gold placer claims in the Yukon and Tanana Area. In one area an positive of pitchblend, containing uranium and radium. The whole area in this respect, has a geology relating to same. Am familiar and have placer mined, lode, and dredge, and some hydraulic. Also familiar with stripping and clearing of overburden in certain type of mining operations. Alaska mining being some of the toughest in the world, due to transportation, and climate, makes for all types and forms of mining in order to extract the minerals that are desired.

The above covers only a highlight of myself in relation to my mining activities, and in relation to my business experience and ability as to carry those activities all over the world. Wherever that climate is a mining country, can and developed any mineral will be taken from the earth. For the last 15 years the writer with his mining activities has been engaged in supplying mining machinery, equipment, and supplies to the far corners of the earth.

References: May refer to you:
Mr. Eugene C. Flynn, 1001 Marquette St. Muskegon, Michigan
Mr. Emil F. Bauchwitz, Bentley Drive Bank Bldg.
Andrew G. Hessman, Union Bank, Anchorage Alaska. Banker.
Mr. Lo Leclet, Nome Alaska, Business man. Nome 50 years.

ALASKA'S FOREMOST EXCLUSIVE CURIO IMPORTERS SERVING ALASKANS
REPRESENTING POINT BARROW NOME FAIRBANKS ANCHORAGE SEWARD JUNEAU KETCHIKAN KODIAK VALDEZ

LOUIS A. BIANCHI & CO.

IMPORTERS ★ DIRECT FACTORY REPRESENTATIVES ★ EXPORTERS
Telephone 2-1703 Downtown Office: Anchorage, Alaska Sub Contractor of Alaska
Federal Income Tax
POST OFFICE BOX 1287 ★ ANCHORAGE, ALASKA

REFERENCES
UNION BANK
Anchorage, Alaska
AMERICAN EXPORTER
New York City
IMPORTERS GUIDE
New York City
COMMERCIAL MUSEUM
Philadelphia, Pennsylvania

CABLE ADDRESS
IMPORTER, PHEN 103

ASSOCIATES
IN ALL PRINCIPAL CITIES
OF THE WORLD

Formerly Detroit, Michigan

Be Thet It Any Concern:

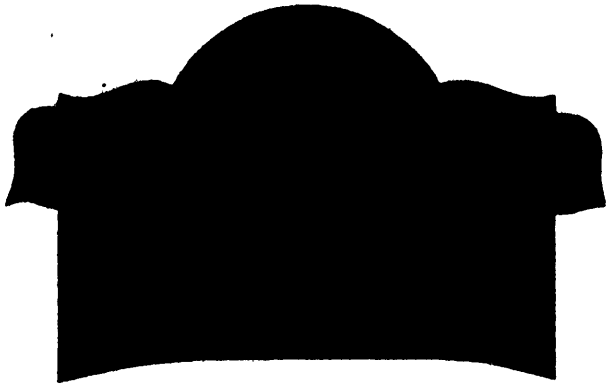
Should any further information be required, the writer will be pleased to render same.

Awaiting you,

Very truly yours,

Louis A. Bianchi

LAB/



"WE GROW AS WE SERVE"

EXHIBIT #1

CERTIFICATE OF CO-PARTNERSHIP. 5043½ DOUBLEDAY BROTHERS & CO., KALAMAZOO, MICH.

CERTIFICATE OF CO-PARTNERSHIP

This Certifies that we, whose names are signed hereunder in full, are joined in co-partnership under the firm name of SARGENT-BURCHARD-LAFOND MINING AND DEVELOPMENT COMPANY
(Write on this line full name of your firm)
located at 1436 Peck Street, Muskegon Heights, State of Michigan;
(Give name of town on this line and if you are located in a city or village having street numbers, give your street and number)
that said co-partnership is to continue* for ten years
(If length of time co-partnership is to run has been agreed upon, write in time limit on this line, otherwise write in the words "for a time not limited by the co-partnership agreement," after the star above.)

SIGNATURES OF CO-PARTNERS	RESIDENCE OF CO-PARTNERS
Thomas Sargent	1436 Peck St., Muskegon Heights, Mich.
George Burchard	R.#1, Fruitport, Michigen
Lonald LaFond	1436 Peck St., Muskegon Heights, Mich.

STATE OF MICHIGAN, } ss. I, George Burchard one of the co-partners of
COUNTY OF Marquette
the said firm of Sargent-Burchard-LaFond Mining and Development Company do hereby certify that all co-partners of said firm
(Write in name of firm on this line)
have herein above individually subscribed their respective names as witnessed by myself, and that the place of residence of each said co partner as above written is true and correct.

(Signed) George Burchard One of the co-partners of above-named firm.

Subscribed and Sworn to before me this 26th day of August 1950 Mildred M. Johnson

My commission expires Feb. 20 1952 Notary Public, Marquette County, Mich.

EX - 1

STATE OF MICHIGAN.

COUNTY OF Marquette } SS.

I Mildred M. Johnson, Deputy Clerk of the County aforesaid and Clerk of the Circuit Court for said County, do hereby certify that I have compared the within copy of Certificate setting forth the full names of the persons owning, conducting or transacting business under the name of Sargent-Burchard-LaFond Mining and Development Company

together with the certificate of filing endorsed thereon, with the original Certificate heretofore filed and now remaining in my office, and that it is a true and correct copy thereof, and of the whole of such original Certificate and of said certificate of filing.

In Testimony Whereof, I have hereunto set my hand and affixed the seal of said Circuit Court, this 28th day of August 19 50

SEAL

Lloyd LeVasseur
County Clerk.

By Mildred M. Johnson
Deputy County Clerk

CERTIFICATE OF CO-PARTNERSHIP

OF CO-PARTNERSHIP

Sargent-Burchard-LaFond

Mining and Development

Company

Filed by

CLERK'S OFFICE.

Marquette COUNTY, } SS.

Indexed, filed this 28th

day of August 19 50

Mildred M. Johnson
County Clerk.

BROTHERS AND COMPANY
KALAMAZOO, MICHIGAN

EXHIBIT #17

TO WHOM IT MAY CONCERN:

On the 26th day of July, 1950, we, the undersigned, George Burchard and Donald LaFond, co-partners, together with Tom Sargent, in a co-partnership, also known as the S. B. & L. Mining & Development Company, 1436 Peck St., Muskegon Heights, Michigan, do hereby elect and appoint the said Tom Sargent, chairman of said co-partnership and S. B. & L. Mining & Development Company, to act in all matters both executive and financial.

Witnesses:

Signed

George Burchard

John Hawkinson

State of Michigan

County of Muskegon

On this 26th day of July, A.D. 1951, before me, a Notary Public in and for said County, personally appeared the within named George Burchard and Donald LaFond, to me known to be the same persons named in and who executed the within instrument, and acknowledge the same as their free act and deed.

Notary Public, Muskegon County, Michigan.

My commission expires

July 17 1954

EXHIBIT # II

Lith 30

PROSPECTING AND MINING LEASE

THIS LEASE, made this 24 day of August, 1950, between Victor Tolvonen and Alli Tolvonen, husband and wife of Republic, Michigan, hereafter called the lessor, and the SARGENT-BURCHARD-LA FOND MINING AND DEVELOPMENT COMPANY, a co-partnership, of Muskegon Heights, Michigan, hereinafter called the lessee, WITNESSETH:

1. That the lessor, for and in consideration of the royalties hereinafter reserved and the covenents and agreements hereinafter expressed, and by the said lessee to be kept and performed, hereby grants, demises and lets to the said lessee all the following described property, situate in the county of Menominee State of Michigan, to wit:

West Half (W½) of the North west Quarter (NW¼) Section Thirty-Two (32) Township Forty Seven (47) North of Range Twenty Nine (29) West, and containing Eighty (80) Acres more or less. Excepting out of this lease all land used as public Highway.

To have and to hold unto to the said lessee the above described property, for the purpose of prospecting and mining all radio active ore therein contained, from the date hereof to the 24th day of August, 1950, (at noon) and so long thereafter as radio active ore is found in paying quantities as determined by the lessee.

2. In consideration of this lease the lessee covents and agrees with the said lessor as follows:

(a) To pay to the lessor as a rental, the sum of ($10.00) ten dollars per year in advance, commencing with the date hereof, whether said premises are mined or not, and continuing for the term of this lease.

(b) To pay to the lessor as a royalty 10 percent of the net proceeds from the sale of all mineral and metal bearing ore or rock

EXHIBIT #II

removed from said premises by the lessee during the term of this lease, said royalty payments to be made by the lessee to the lessor as follows: The first royalty payment shall be made on the first day of the third month following the month in which the first sale of mineral or metal ore or rock is made by the lessee from said premises, not counting the month in which such sale is made and each succeeding royalty payment shall be made at the expiration of each three month period thereafter.

(c) That the lessee shall, and hereby does, assume all responsibility in case of accident or injury to the lessee, or any of his employees incurred in the prospecting or mining operations of the lessee in or about said property.

(d) To deliver to the lessor, the said premises in good condition at the expiration of this lease, reasonable wear and tear and damage from mining operations excepted.

IN WITNESS WHEREOF WE HAVE hereinto set our hands and seals this 24th day of August, 1950.

In the presence of:

George Niska

Leo Nurmi

Victor Toivonen Aili Toivonen
Lessor

The Sargent-Burchard-La Fond Mining and Development Company

by: Thomas Sargent
a partner thereof.

STATE OF MICHIGAN } SS
County of Marquette }

On the 24 day of August, 1950, before me, a notary Public in and for said county and state, came Victor Toivonen & Aili Toivonen and Thomas Sargent to me personally known to be the identical persons who executed the above and forgoing instrument, and who each duly acknowledged the execution of the same.

In witness whereof, my hand and seal this 24 day of August, 1950

My commission expires November 15, 1950.

George Niska
Notary Public, Marquette County, Mich.

GEORGE NIKKA NOTARY PUBLIC MARQUETTE COUNTY, MICH.

EXHIBIT #

FINANCIAL STATEMENT - SARGENT, BURCHARD & LA FOND
MINING AND DEVELOPMENT COMPANY

As of December 31, 1950

CAPITAL		LIABILITIES	ASSETS
Sargent			$ 900.00
LaFond			900.00
Burchard			900.00
EXPENSES:			
Rent - 5 months @ $15.00		$ 75.00	
Food - Miners & Families 3 months @ $200.00		600.00	
Extra Labor		50.00	
Small Tools - picks, shovels, axes, chisels, etc.		400.00	
Dynamite - caps & fuses		125.00	
Trips to assay samples		310.00	
Geiger Counter		150.00	
Repairs to Geiger Counter		50.00	
Legal Matters		46.50	
Loss of Wages - Sargent		1,640.00	
LaFond		1,476.00	
Burchard		225.60	
Totals		$5,147.60	$ 2,700.00
Loss:	$ 2,447.60		

EXHIBIT #IV

Casadonte Research Laboratories

CHEMISTS AND METALLURGISTS

TESTING LABORATORIES DIVISION

PHONE 4497 2410 LAKE AVENUE

NORTH MUSKEGON, MICHIGAN

June 15, 1951

Thomas Sargent
1436 Peck St.
Muskegon Heights, Mich.

Dear Sir:

The Mineral specimen submitted to our laboratory for a Bead test, gave a positive result regarding the fluorescence and indicating the presence of radioactive material, in our opinon, uranium.

The fluorescence was very brilliant, when the bead was subjected to Utra-Violet light.

Yours Truly,
CASADONTE RESEARCH LABS
Anthony J. Casadonte
Anthony J. Casadonte
Owner-Director

AJC:MC

RCL

Increase Profits Thru Research

EXHIBIT # VI

EQUIPMENT NECESSARY FOR EXPLORATION OF PROPERTY

Truck	App.	$3,000.00
Bulldozer	75 hours at $15.00 per hour	1,125.00
Air Compressor, heavy duty		3,000.00
Jack Hammer, hose & chisels		1,200.00
Mine pump & hoses		350.00
Geiger Counter		175.00
Ultra violet short wave battery light		79.00
Boots and rubber uniforms		300.00
Explosives	Dynamite - 1500# @ $35.00 per C	525.00
Electric Detonator		100.00
Lumber	5000 feet 1" sheeting 2 x 4's, 2 x 6's, 2 x 8's	1,000.00
Windows		144.00
Doors	5 @ $20.00 each	100.00
Rolled Roofing	50 rolls - for roof & sides	250.00
Nails & Spikes	100#	24.00
Coal stoves	2 @ $100.00 each	200.00
Water Pump	Drinking & Sanitation	150.00
Small Tools & miscellaneous items	Forge, chisels, picks, shovels, wheelbarrows, etc. Fuel, extra labor, insurance, office equipment, supplies, 200 ft. 1" cable and blocks, gravel for roads, etc.	5,500.00
Labor - Based on a six month period:		
	9 miners @ $1.00 per hour	9,360.00
	1 Mining Engineer	3,600.00
	1 Mining Superintendent	3,600.00
	1 Administrator	3,600.00
	1 Foreman	3,000.00
	Total	$40,382.00

EXHIBIT #III

FINANCIAL STATEMENT - SARGENT, BURCHARD & LA FOND
MINING AND DEVELOPMENT COMPANY

As of December 31, 1950

CAPITAL		LIABILITIES	ASSETS
Sargent			$ 900.00
LaFond			900.00
Burchard			900.00
EXPENSES:			
	Rent - 5 months @ $15.00	$ 75.00	
	Food - Miners & Families 3 months @ $200.00	600.00	
	Extra Labor	50.00	
	Small Tools - picks, shovels, axes, chisels, etc.	400.00	
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	Trips to assay samples	310.00	
	Geiger Counter	150.00	
	Repairs to Geiger Counter	50.00	
	Legal Matters	46.50	
	Loss of Wages - Sargent	1,640.00	
	LaFond	1,476.00	
	Burchard	225.60	
Totals		$5,147.60	$ 2,700.00
Loss:	$ 2,447.60		

EXHIBIT #IV

IV

Casadonte Research Laboratories

CHEMISTS AND METALLURGISTS

TESTING LABORATORIES DIVISION

PHONE 4497 2410 LAKE AVENUE

NORTH MUSKEGON, MICHIGAN

June 15, 1951

Thomas Sargent
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CASADONTE RESEARCH LABS
Anthony J. Casadonte
Anthony J. Casadonte
Owner-Director

AJC:MC

RCL

Increase Profits Thru Research

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Geiger Counter		175.00
Ultra violet short wave battery light		79.00
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Electric Detonator		100.00
Lumber	5000 feet 1" sheeting 2 x 4's, 2 x 6's, 2 x 8's	1,000.00
Windows		144.00
Doors	5 @ $20.00 each	100.00
Rolled Roofing	50 rolls - for roof & sides	250.00
Nails & Spikes	100#	24.00
Coal stoves	2 @ $100.00 each	200.00
Water Pump	Drinking & Sanitation	150.00
Small T ools & miscellaneous items	Forge, chisels, picks, shovels, wheelbarrows, etc. Fuel, extra labor, insurance, office equipment, supplies, 200 ft. 1" cable and blocks, gravel for roads, etc.	5,500.00
Labor - Based on a six month period:		
	9 miners @ $1.00 per hour	9,360.00
	1 Mining Engineer	3,600.00
	1 Mining Superintendent	3,600.00
	1 Administrator	3,600.00
	1 Foreman	3,000.00
	Total	$40,382.00

EXHIBIT # VII

ALASKA'S FOREMOST EXCLUSIVE FACTORY IMPORTERS SERVING ALASKANS
REPRESENTING POINT BARROW NOME FAIRBANKS ANCHORAGE SEWARD JUNEAU KETCHIKAN KODIAK YUKON

LOUIS A. BIANCHI & CO.

IMPORTERS EXPORTERS DIRECT FACTORY REPRESENTATIVES EXPORTERS

Established 1876 By Executive Offices: Anchorage, Alaska — Big Enough to Serve the World — Rooted Into Alaska

POST OFFICE BOX 1 ANCHORAGE, ALASKA

UNION BANK Anchorage, Alaska
AMERICAN EXPORTER New York City
IMPORTERS GUIDE New York City
COMMERCIAL MUSEUM Philadelphia, Pennsylvania

CABLE: BIANCHI
TELEPHONE: OFFICE 190

ASSOCIATES IN ALL PRINCIPAL CITIES OF THE WORLD

Formerly Detroit, Michigan

3200 Arlington Avenue
Muskegon, Michigan
Phone 55590

To Whom It May Concern:

Louis A. Bianchi Born April 25, 1910 , Marble Colorado USA.

AB degree in Business Administration, Comercial Law, Industrial management, Corporations, Interstate, Sales Organization, Advertising, Commerce, Traffic Accounting, Banking, Credits, Financing.

Also USA diplomatic service study. Speak, read; write all the romance languages, attended University of Paris France and Rome Italy. University of Alaska extension course in Mining in 1945, 1946, and 1947. University of Cuba short course in mining, related to the Island of Cuba, asphalt, petroleum, and nickel ores.

Have prospected, and mined in the United States, Canada, Cuba, Mexico, Italy on sulphur, and petroleum, Brazil, Island of the Pines of Cuba, Tungstun property, and All over Alaska, Nome, Fairbanks, Hot Springs, and Yukon and Tanana area.

Spent from 1945 to 1950 in Alaska, and have Tin and gold placer claims in the Yukon and Tanana Area. In one area am positive of pitchblend, containing uranium and radium. One whole area in this respect, has a geology relating to same. Am familiar and have placer mined, lode, and dredge, and some hydraulic. Also familiar with stripping and clearing of overburden in certain type of mining operations. Alaska mining being some of the toughest in the world, due to transportation, and climate, makes for all types and forms of mining in order to extract the minerals that are desired.

The above covers only a highligh of myself in relations to my mining activities, and in relation to my business experience has enabled me to carry those activities all over the world. However Cool Alaska is a mining country, and once developed may mineral will be taken from it's earth. For the last 25 years the writer with his mining activities has been engaged in supplying mining machinery, equipment, and supplies to the far corners of the earth.

References: May refer to you:
Fr. Frances J. Flynn, 387 Marquette St. Muskegon, Michigan
Dr. Emil J. Lauretti, Hackley Union Bank Bldg. " "
Andrew U. Hassman, Union Bank, Anchorage Alaska Banker.
Antonio Polet, Nome Alaska, Business man. Nome 50 years.

"WE GROW AS WE SERVE"

ALASKANS FOREMOST [illegible]COLLEGIVE [illegible] IMP[illegible]ERS SERVING ALASKANS
[illegible] [illegible]OM LARROW [illegible] [illegible] [illegible] [illegible]WARD [illegible] [illegible] [illegible]

LOUIS A. BIANCHI & CO.

IMPORTERS ★ DIRECT FACTORY REPRESENTATIVES ★ EXPORTERS

[illegible] ★ ANCHORAGE, ALASKA

CABLE: BIANCHI
TELEPHONE: [illegible]

MEMBERS
IN ALL PRINCIPAL CITIES
OF THE WORLD

Formerly Detroit, Michigan

To Whom It May Concern:

Upon my further information to requires, the order will be placed to border auto.

Thanking you,

Very truly yours,

Louis A. Bianchi

[redacted]

"WE GROW AS WE SERVE"

EXHIBIT #1

CERTIFICATE OF CO-PARTNERSHIP. 5043½ DOUBLEDAY BROTHERS & CO., KALAMAZOO, MICH.

CERTIFICATE OF CO-PARTNERSHIP

This Certifies That we, whose names are signed hereunder in full, are joined in co-partnership under the firm name of SARGENT-BURCHARD-LAFOND MINING AND DEVELOPMENT COMPANY
(Write on this line full name of your firm)
located at 1436 Peck Street, Muskegon Heights, State of Michigan;
(Give name of town on this line and if you are located in a city or village having street numbers, give your street and number)
that said co-partnership is to continue* for ten years
(If length of time co-partnership is to run has been agreed upon, write in time limit on this line, otherwise write in the words "for a time not limited by the co-partnership agreement," after the star above.)

SIGNATURES OF CO-PARTNERS	RESIDENCE OF CO-PARTNERS
Thomas Sargent	1436 Peck St., Muskegon Heights, Mich.
George Burchard	R.#1, Fruitport, Michigan
Lonald LeFond	1436 Peck St., Muskegon Heights, Mich.

STATE OF MICHIGAN, } ss. I, George Burchard one of the co-partners of
COUNTY OF Marquette
the said firm of Sargent-Burchard-LeFond Mining and Development Company do hereby certify that all co-partners of said firm
(Write the name of firm on this line)
have herein above individually subscribed their respective names as witnessed by myself, and that the place of residence of each said co-partner as above written is true and correct.

(Signed) George Burchard One of the co-partners of above-named firm.

Subscribed and Sworn to before me this 26th day of August 1950 Mildred M. Johnson

My commission expires Aug. 30 1952 Notary Public, Marquette County, Mich.

EX - 1

STATE OF MICHIGAN.

COUNTY OF Marquette } SS.

I Mildred M. Johnson, Deputy Clerk of the County aforesaid and Clerk of the Circuit Court for said County, do hereby certify that I have compared the within copy of Certificate setting forth the full names of the persons owning, conducting or transacting business under the name of Sargent-Burchard-LaFond Mining and Development Company

together with the certificate of filing endorsed thereon, with the original Certificate heretofore filed and now remaining in my office, and that it is a true and correct copy thereof, and of the whole of such original Certificate and of said certificate of filing.

In Testimony Whereof, I have hereunto set my hand and affixed the seal of said Circuit Court, this 28th day of August 19 50

SEAL

Lloyd LeVasseur
County Clerk.

By Mildred M. Johnson
Deputy County Clerk

CERTIFICATE OF CO-PARTNERSHIP

NAME OF CO-PARTNERSHIP

Sargent-Burchard-LaFond Mining and Development Company

Filed by

CLERK'S OFFICE, } SS.
Marquette COUNTY,

Indexed and filed this 28th day of August 19 50

Lloyd E. Johnson
Lloyd E. Johnson, County Clerk.

BURDICK BROTHERS AND COMPANY
KALAMAZOO, MICHIGAN

687

50431

EXHIBIT # 1A

TO WHOM IT MAY CONCERN:

On the 26th day of July, 1950, we, the undersigned, George Burchard and Donald LaFond, co-partners, together with Tom Sargent, in a co-partnership, also known as the S. B. & L. Mining & Development Company, 1436 Peck St., Muskegon Heights, Michigan, do hereby elect and appoint the said Tom Sargent, chairman of said co-partnership and S. B. & L. Mining & Development Company, to act in all matters both executive and financial.

Witnesses: Signed

Albert V Qerter George Burchard

John Hawkinson Donald LaFond

State of Michigan

County of Muskegon

On this 26th day of July, A.D. 1951, before me, a Notary Public in and for said County, personally appeared the within named George Burchard and Donald LaFond, to me known to be the same persons named in and who executed the within instrument, and acknowledge the same as their free act and deed.

Anton L Gabel

Notary Public, Muskegon County, Michigan.

My commission expires

July 12 1954

EXHIBIT #II

LIBER 30 PAGE 283

PROSPECTING AND MINING LEASE

This Agreement, made this 24 day of August, 1960, between Pekka Toivonen and Aili Toivonen, husband and wife of Republic, Michigan, hereafter called the lessor, and [illegible] LA FORM MINING AND DEVELOPMENT COMPANY, a [illegible] of Michigan, Republic, Michigan, hereinafter called the lessee.

[illegible] for and in consideration of the royalties [illegible] and the covenants and agreements hereinafter [illegible] to be kept and performed, hereby [illegible] all the following [illegible] in the County of Marquette [illegible]

The East Half (E½) of the South West Quarter (SW¼) Section Twenty-Two (22) Township Forty-Seven (47) North of Range Twenty-Five (25) West, and a contained Eighty (80) Acres more or Less. Excepting out of this lease all land used as public Highway.

To have and to hold unto the said lessee the above described property, for the purpose of prospecting and mining all valuable mineral ore therein contained, from the date hereof to the Fifteen of August August, 1960, (at noon) and so long thereafter as said mineral ore is found in paying quantities as determined by the lessee.

3. In consideration of this lease the lessee covents and agrees with the said lessor as follows:

(a) To pay to the lessor as a rental, the sum of ($10.00) ten dollars per year in advance, commencing with the date hereof, whether said premises are mined or not, and continuing for the term of this lease.

(b) To pay to the lessor as a royalty 10 percent of the net proceeds from the sale of all mineral and metal bearing ore or rock

EXHIBIT #7

6/5/51

Defense Minerals Administration

Review of Application for Exploration Assistance

Docket No. DMA - 1911

Commodity Uranium

Total Amount $40,382.00

Govt. Participation $36,343.80

1. Name and Address of Applicant Sargent, Burchard and LaFond Mining and Development Company, 1436 Peck Street, Muskegon Heights, Michigan

2. Location of Property Republic Township, Marquette County, Michigan

3. Mineral or metal Uranium Is it listed in Section 9 of MO-5? Yes

If not, application will be rejected.

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

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

a) Good

b) Poor

c) None

d) Don't know—needs field examination Report by field team is required.

e) Is there an alternative and favorable project? (If so, attach an explanation)

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

6. If applicant is a lessee, is a copy of the lease attached?

Does the lease have sufficient time to run to cover a future productive period?

*question numbers are those of MF-103

7. Are subordination agreements necessary?_____

   a) MF-201?_____

   b) MF-202_____

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

   a) Available manpower_____

   b) Equipment and supplies_____
      (Question 14 plus general knowledge of availability)*

   c) Accessibility (question 12)*_____

   d) Water (question 13)*_____

   e) Power (question 13)*_____

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

9. Does the experience of the applicant appear to be adequate to assure that he can properly conduct the proposed project? (question 4)*_____

   _____

   Is a field check needed on this point?_____

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

   a) Is the project adequately described?_____

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

   b) Is there an adequate map or sketch of the proposed work?_____

      _____

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

      If not, what part of it is?_____

      _____

      _____

      _____

Is this part a worthwhile exploration project?_____

d) Are the cost estimates detailed?_____

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

e) Are the cost estimates reasonable?_____

f) Should more information be requested from applicant?_____

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

11. Exhibit B (question 23-d)*

a) Is it applicable?_____

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

c) Is a field check needed?_____

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

a) Is it applicable?_____

b) Sufficient data?_____ If so, attach a draft.

c) Are rents and charges reasonable?_____

d) Is a field check needed?_____ _____

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

a) Are there sufficient data?_____

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

c) Is the schedule excessive for the work proposed?_____

d) Are the proposed wages and salaries reasonable?_____

e) Is a field check needed?_____

14. Exhibit E (question 23-c)*

a) Is it applicable? _____

b) Sufficient data? _____

c) Reasonable? _____

d) Field check needed? _____

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

(All exploration must be completed within two years)

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

17. If field examination is needed, do you have any special instructions for the field team not indicated by your answers to the foregoing question? _____

No

If project is geologically recommendable, suggest telling applicants to submit a definite exploration outline. We seriously question need for four supervisors.

Reviewed by: E R Jacobs

H W Meier, U.S.G.S.

J P Hosted, AEC

Date August 9, 1951

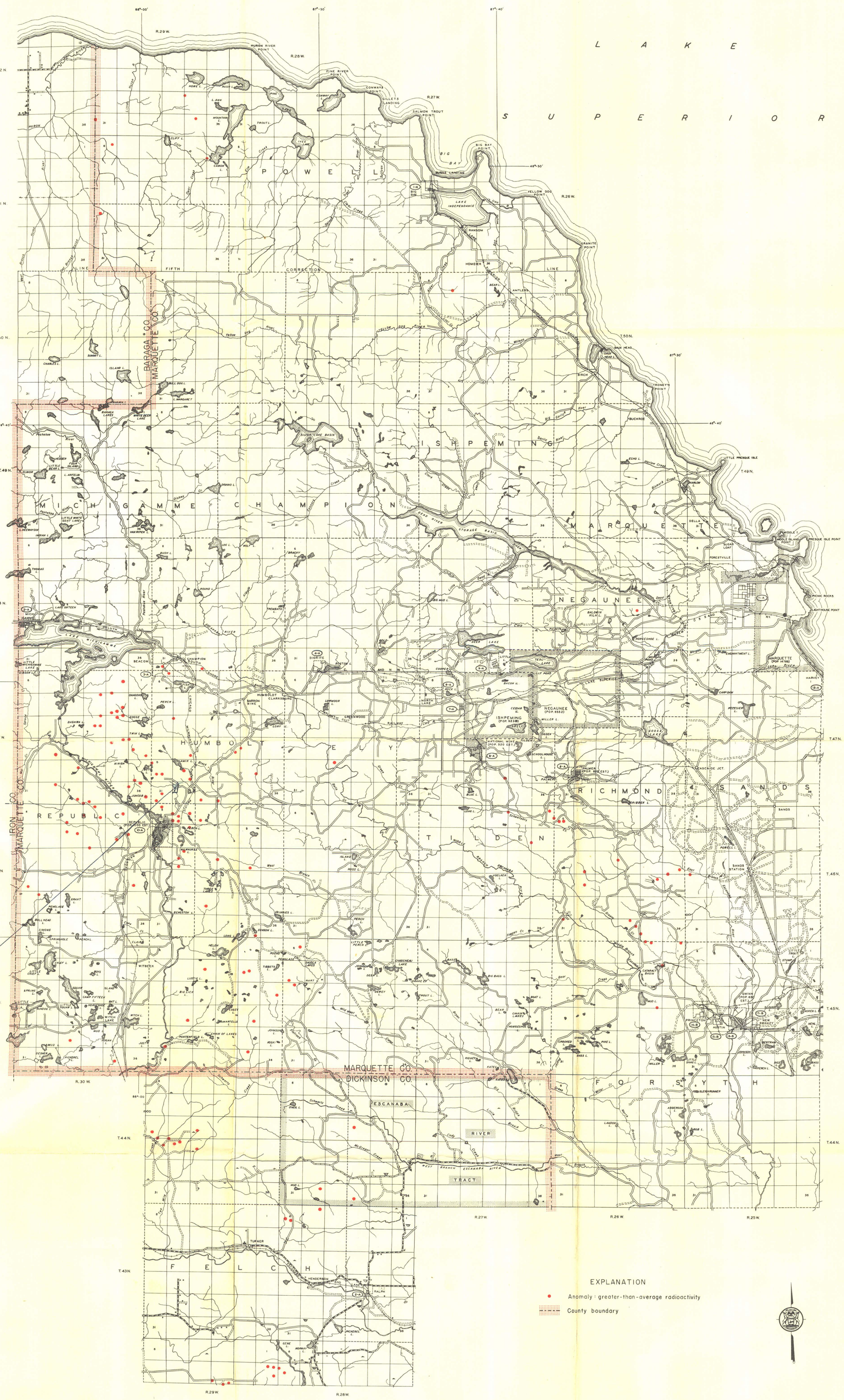
INT.-DUP. SEC., WASH., D.C. 99009

Ama - 1911

Sargent, Burchard and LaFond
Mining & Development Co.

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

PREPARED IN COOPERATION WITH THE
UNITED STATES ATOMIC ENERGY COMMISSION



AIRBORNE RADIOACTIVITY SURVEY OF PARTS OF MARQUETTE, DICKINSON, AND BARAGA COUNTIES, MICHIGAN

By F. W. Stead,[1] F. J. Davis,[2] R. A. Nelson,[1] and P. W. Reinhardt[2]

INTRODUCTION

The accompanying map shows the approximate location of radioactivity anomalies over an area of about 1,600 square miles in the central part of the Northern Peninsula of Michigan. The airborne radioactivity survey described herein was made by the U. S. Geological Survey from May 30 to June 21, 1950, as part of a cooperative program with the U. S. Atomic Energy Commission.

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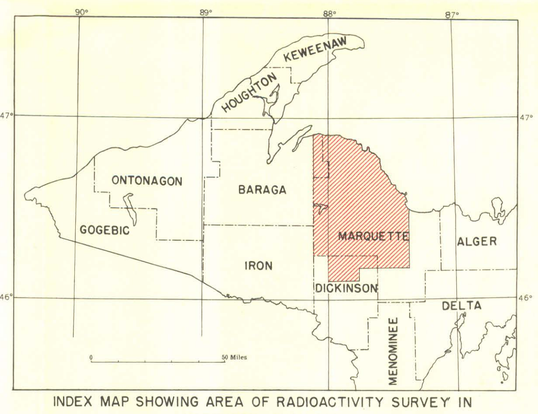


INDEX MAP SHOWING AREA OF RADIOACTIVITY SURVEY IN NORTHERN MICHIGAN

Base from Michigan State Highway Department County Maps

Radioactivity survey in 1950 by
J. R. Balsley, F. J. Davis, R. A. Nelson, and P. W. Reinhardt

AIRBORNE RADIOACTIVITY SURVEY OF PARTS OF MARQUETTE, DICKINSON, AND BARAGA COUNTIES, MICHIGAN

1 1/2 0 1 2 3 4 5 MILES

Flown at 500 feet above surface

1950

EXHIBIT V

SOUTHWEST PART

MARQUETTE COUNTY

DISTRIBUTED BY

MICHIGAN
DEPARTMENT OF CONSERVATION

* * *

YOU COULD NOT ENJOY THE CLEAN WHOLESOME RECREATION OF THIS COUNTY

IF

ITS FORESTS WERE BURNED OVER

ITS STREAMS WERE POLLUTED

ITS CAMP SITES WERE UNSANITARY

AND IF

THERE WERE NO GAME OR FISH

KEEP MICHIGAN CLEAN AND GREEN

REPORT FOREST FIRES AND RETURN NEXT YEAR

* * *

LEGEND

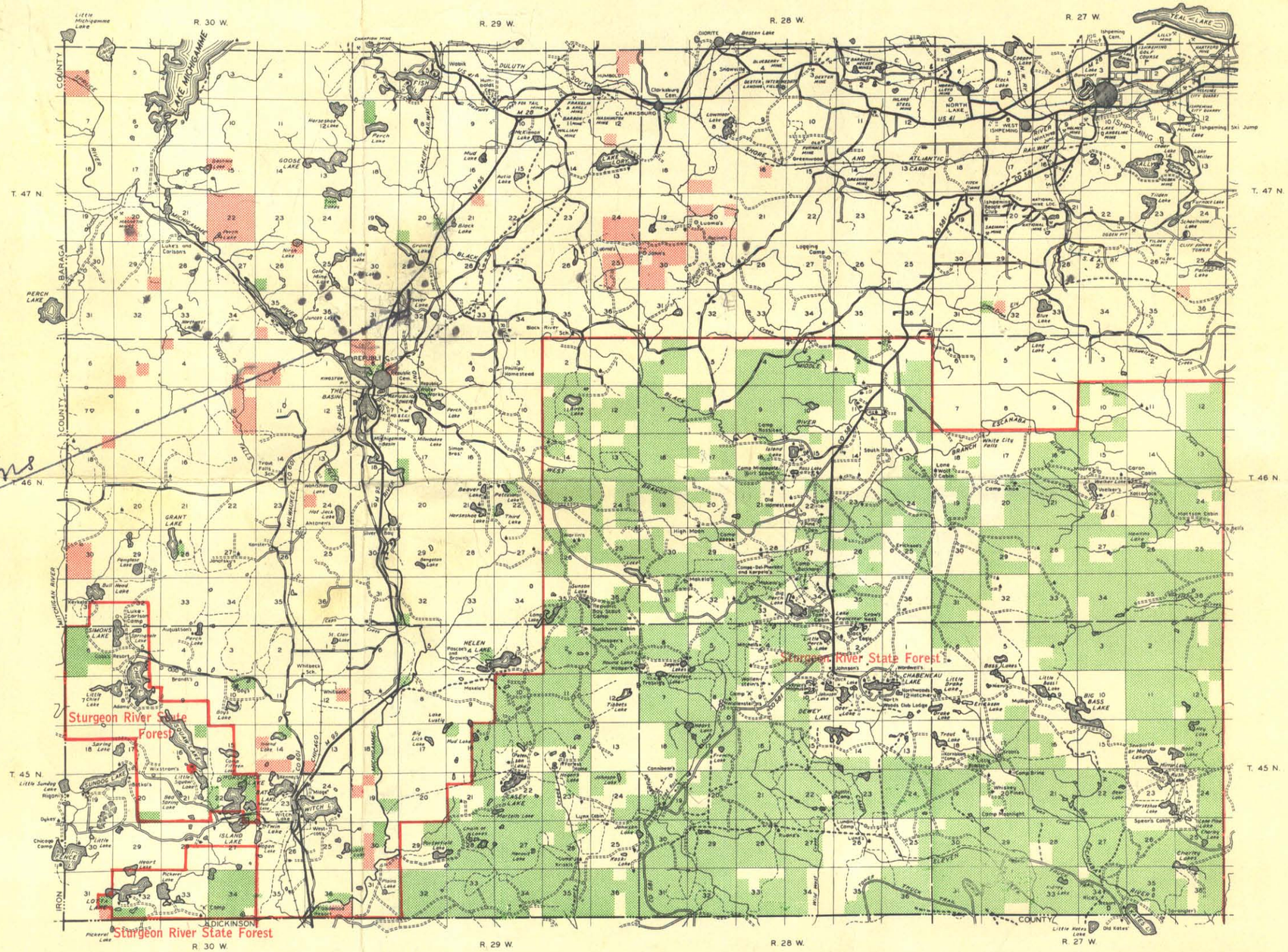
- STATE LANDS DEDICATED FOR STATE FORESTS, PARKS AND OTHER PUBLIC CONSERVATION USES.
- STATE LANDS RESERVED FOR EXCHANGE WITH FEDERAL GOVERNMENT FOR NATIONAL FOREST PURPOSES.
- UNDEDICATED STATE LANDS SUBJECT TO SALE OR EXCHANGE APPLICATION.
- BOUNDARY STATE FORESTS, PARKS, ETC.
- BOUNDARY NATIONAL FORESTS.
- PUBLIC FISHING SITES. LESS THAN 20 ACRES.
- FOREST CAMP GROUNDS.
- STATE PARKS.

IT IS THE POLICY NOT TO DISPOSE OF STATE LANDS IN STATE OR NATIONAL PROJECT AREAS. EXCEPTIONS MAY BE MADE IN CERTAIN CASES WHERE THE LANDS ARE DESIRED FOR AGRICULTURE OR TO CONSOLIDATE OWNERSHIP. FOR FURTHER INFORMATION INQUIRE LANDS DIVISION, DEPARTMENT OF CONSERVATION, LANSING 13, MICHIGAN.

STATE OWNERSHIP JUNE 1, 1949

LEGEND

- PAVED ROADS
- GRAVELED ROADS
- GOOD DIRT ROADS
- POOR DIRT ROADS
- TRAILS
- FIRE BREAKS
- RAILROADS
- ABANDONED RAILROADS
- LAKES
- INTERMITTENT LAKES
- RIVERS AND STREAMS
- INTERMITTENT STREAMS
- DRAINAGE DITCHES
- DAMS
- SPRINGS
- FLOWING WELLS
- AIRPLANE LANDING FIELDS
- COUNTY SEATS
- TOWNS
- HUNTING AND FISHING CAMPS AND RESORTS
- RAILROAD STATIONS, FOUR CORNERS, ETC.
- T.H. TOWN HALLS
- SCHOOLS
- CHURCHES
- CEMETERIES
- CONSERVATION DEPARTMENT UNITS
- FOREST FIRE TOWERS
- TOWERMEN'S CABINS
- PATROL CABINS
- TOURIST CAMPS AND PARKS
- GOLF COURSES
- OBSERVATION TOWERS
- MINES OR QUARRIES
- SUMMITS OR PEAKS

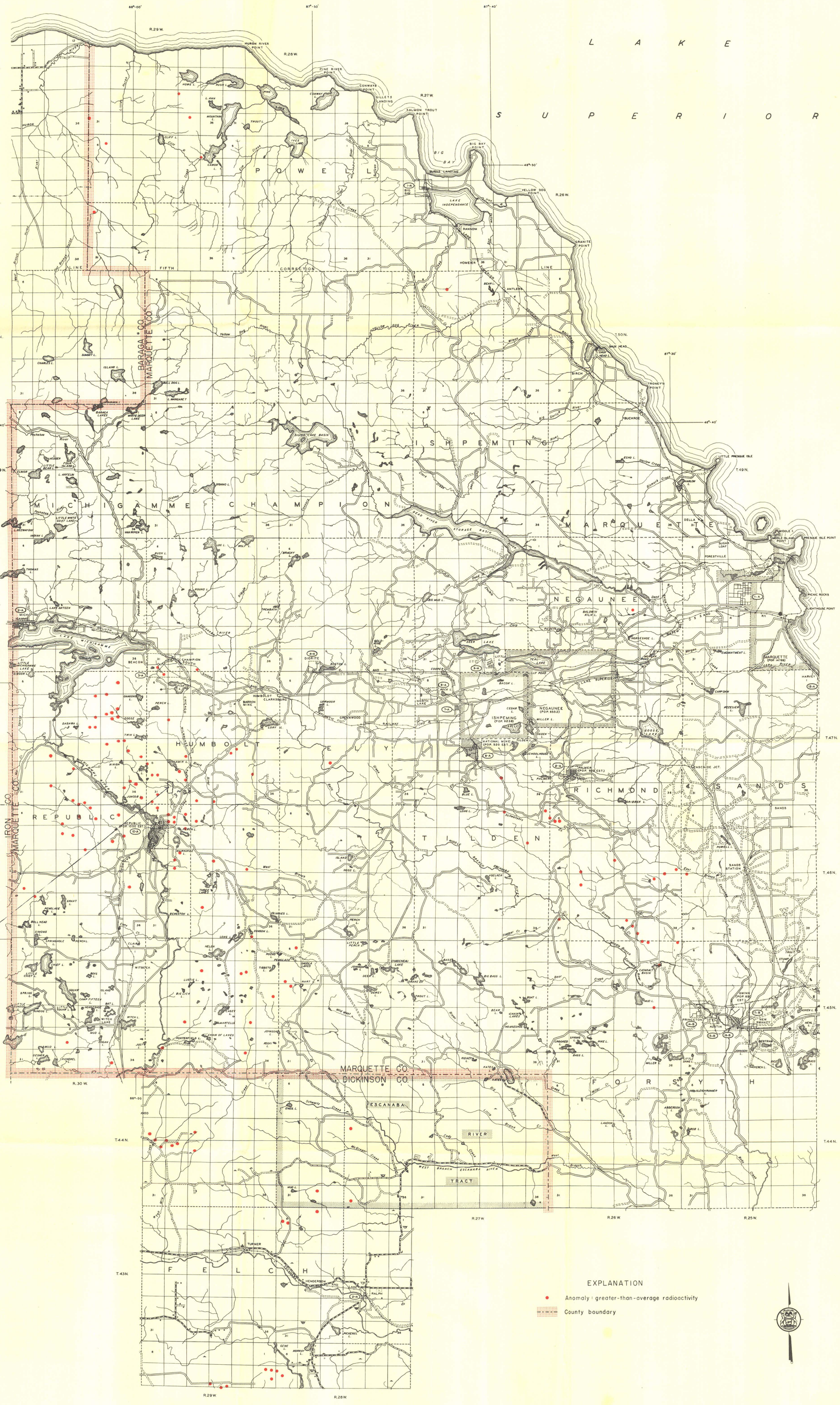


HELP PREVENT FOREST FIRES

SOUTHWEST PART MARQUETTE

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

PREPARED IN COOPERATION WITH THE
UNITED STATES ATOMIC ENERGY COMMISSION



EXPLANATION

● Anomaly: greater-than-average radioactivity

County boundary

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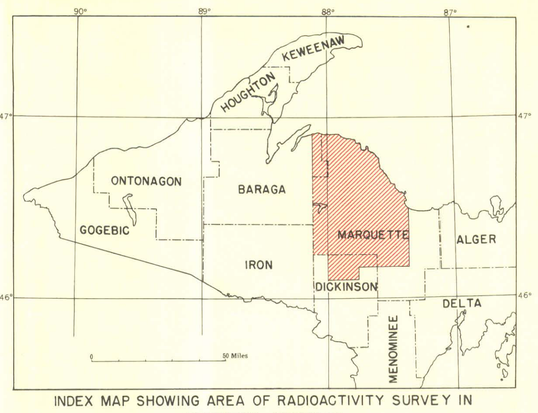

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UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

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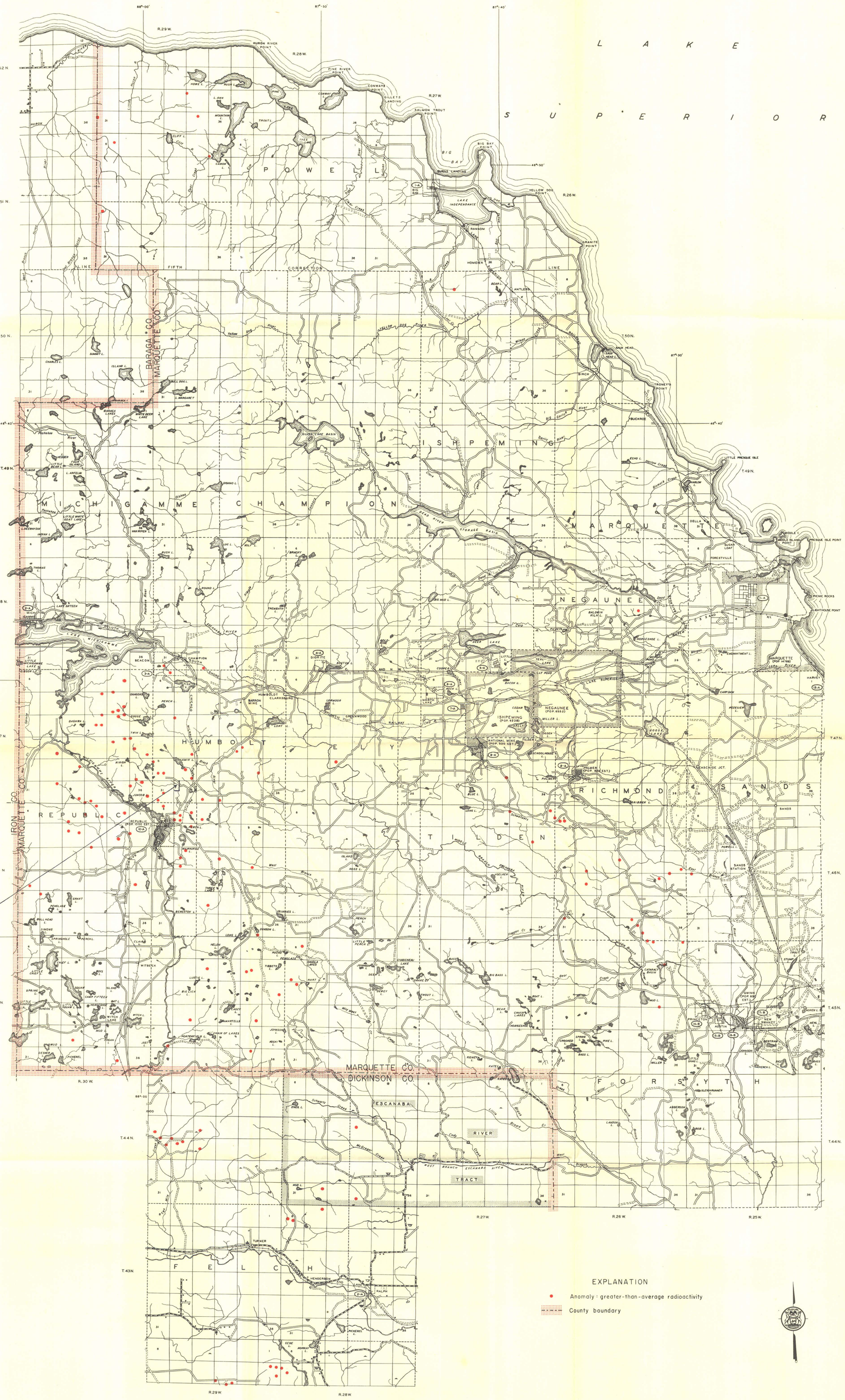

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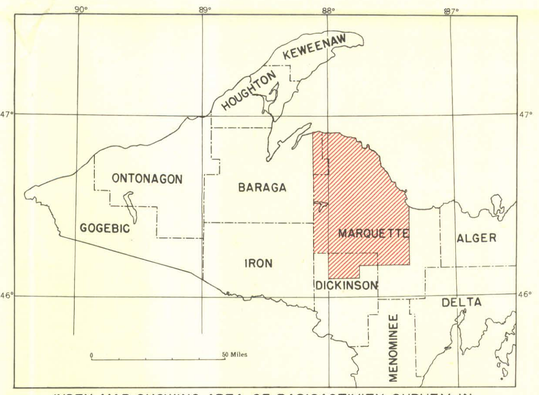

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1/2 0 1 2 3 4 5 MILES

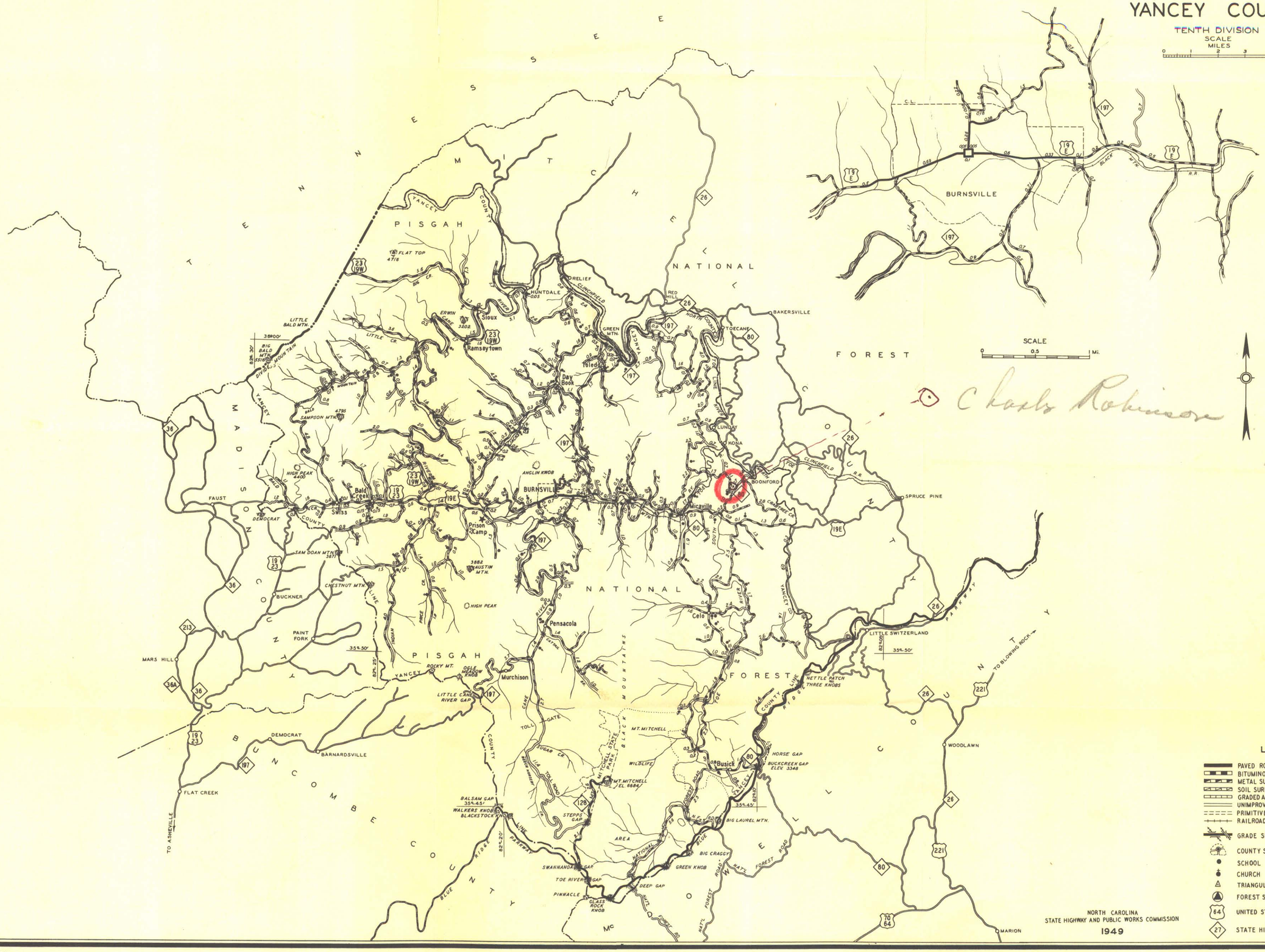
Flown at 500 feet above surface
1950

YANCEY COUNTY

TENTH DIVISION

SCALE MILES

0 1 2 3 4



Charles Robinson

LEGEND

- PAVED ROAD - HIGH TYPE
- BITUMINOUS SURFACED ROAD - B.S.T.
- METAL SURFACED ROAD
- SOIL SURFACED ROAD
- GRADED AND DRAINED ROAD
- UNIMPROVED ROAD
- PRIMITIVE ROAD
- RAILROAD
- GRADE SEPARATION
- COUNTY SEAT ALSO INCORPORATED CITY
- SCHOOL
- CHURCH
- TRIANGULATION STATION
- FOREST SERVICE LOOKOUT STATION
- 64 UNITED STATES HIGHWAY
- 27 STATE HIGHWAY

NORTH CAROLINA
STATE HIGHWAY AND PUBLIC WORKS COMMISSION
1949

6-30-49
8-7-49
3-31-49
9-30-48
7-29-48
6-30-48
2-26-48
7-30-47
2-12-47
10-30-46
9-27-46
4-24-46
10-24-45
9-28-45
1-26-45
12-1-44
REVISED

YANCEY