DMEA Form 9
Rev. 6/57

UNITED STATES
DEPARTMENT OF THE INTERIOR
Defense Minerals Exploration Administration

OFFICIAL DOCKET FILE  Idm-E NO._____  DMEA NO. 4902

Application
- [x] Denied
- [ ] Withdrawn

Contract
- [ ] Terminated - Not Certified
- [ ] Terminated - Certified
- [ ] Cancelled
- [ ] Royalty Agreement

The records contained in this file are marked (x) and arranged in this order:

Folder No. 1:

**Left Side**

- [ ] Royalty Audits
- [ ] Certification of Discovery
- [ ] Closing Letter
- [ ] Cost Audits
- [ ] Termination Notice or Agreement
- [ ] Recision Notice
- [ ] Assignment of Contract
- [ ] Contract Amendments
- [ ] Contract with all exhibits and annexes
- [ ] Owner's Consent to Lien and Subordination Agreement
- [x] Application and attachments

**Right Side**

- [x] Project summary (final)
- [ ] Work Comoleted analysis (final)

All other material filed in chronological order including the following reports if checked:

- [ ] Field Team Semi-Annual Report for Certified Project
- [ ] Final Field Team Report (Tab)
- [ ] Operator's Final Report (Tab)
- [ ] Interim Field Team Reports
- [ ] Operator's monthly reports and all attachments
- [x] On-site Exam Report (Tab)
- [ ] Settlement Sheets
- [ ] Drill Logs

Additional Folders:

**Left Side**

Folders No._____: Reports
- [ ] Analysis of Semi-Annual Inspection Reports
- [ ] Project Summary (Interim) by DMEA Engineers

**Right Side**

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

Folders No._____: Maps (Use pocket folder or envelope)

Folders No._____: Settlement Sheets

Folders No._____: Drill Logs

Folders No._____: Royalty material

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
So. 157 Howard Street
Spokane 4, Washington

OFFICIAL FILE COPY
DMEA
RECEIVED DEC 23 1957
DATE | MINERAL | CODE

December 19, 1957

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

Re: New Application (Nickel-Chromium-Talc)
Lonnie Richards
The John J. Frostad Homestead
Stevens County, Washington

Dear Mr. Selfridge:

Enclosed are three copies of an application submitted by Mr. Lonnie Richards, Box 95, Colville, Washington. Only one copy each of the accompanying papers and Agreement of Lease was received which is attached. Thermofax copies were made and attached to the other copies of the application. Please note that the applicant wishes the Agreement of Lease returned to him.

One copy of the application was retained for our files.

Sincerely yours,

A. E. Weissenborn

A. E. Weissenborn
Executive Officer, DMEA
Field Team, Region I

Enclosures

cc: USBM (2)
Geologist

COPY

12-10, 57
Colville, Washington
Box 95

Mr. M. A. Weissenborn

Sir:

I have made out this application for aid now I need some advice on this thing it is so big I cant seem to get any lead.

If possible I would like for your staff one of them to personally look at it. It is on the highway. We could look at it any time. Please let me know when this would be possible.

Sincerely,

/s/ Lonnie Richards
Box 95
Colville, Washington

I live at 911 North Walnut
Phone 758.

Time is important because of snow.

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DRAFT (3)

Form MF–103
Revised Oct. 1957

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

Budget Bureau No. 42-R1035.3
Approval expires June 30, 1958

# APPLICATION FOR AID IN AN EXPLORATION PROJECT

PURSUANT TO DMEA ORDER I, UNDER THE DEFENSE PRODUCTION ACT OF 1950, AS AMENDED

RECEIVED DEC 13 1957 U. S. G. S. SPOKANE, WASH.

| NAME OF APPLICANT (Full legal name and mailing address as it should appear on contract if one is executed) | APPLICANT NOT TO USE THIS BLOCK |
|---|---|
| Lonnie Richards<br>Box 95<br>Colville<br>Washington | Docket Number: DMEA- 4902<br>Date Received: 12/23/57<br>Government Participation %:<br>Region: I<br>Division Code: 400 |

| BUSINESS ORGANIZATION (Check one) | LIST CORPORATE OFFICERS OR PARTNERS HERE, IF APPLICABLE | | |
|---|---|---|---|
| | Name | Address | Title |
| Individual ☐<br>Corporation ☐<br>Partnership ☐<br>Other (Specify) ☐ | | | |
| State in which firm is organized | | | |

| Mineral(s) for which you wish to explore | LOCATION OF PROPERTY | | |
|---|---|---|---|
| Nickel Chromium Iron | Name | County | State |
| Estimated Cost of Project $ 8817.50 | Marcus | Stevens | Washington |

## GENERAL INSTRUCTIONS

Before filling out this application, please read DMEA Order–I, Revised, "Government Aid in Defense Exploration Projects." To assure prompt action, your application must provide all applicable material and information specified on the back of this application form. Avoid unnecessary correspondence and delays by submitting complete and accurate information. *Please submit four copies of this application and all accompanying papers* except as otherwise noted. Place your name and address on each sheet. Each item of information, maps, and reports required as a part of this application is described on the back of this form. Identify each attached statement by the item number to which it applies. If an item does not apply to your application, show the item number on your statement and after it write "not applicable." Maps or sketches should be used to supplement narrative descriptions of the property location and boundaries in item 1, existing mine workings and geology in item 2, and the proposed exploration project in item 4. When this information is not too complex, all of it may be shown on one map or sketch. All documents and other attachments submitted as a part of this application, except those in item 2(g) which you mark to be returned, become the property of the Government and will not be returned to the applicant. Send true copies, *not originals,* of leases, contracts, and other documents which are an essential part of your business records. *File this application with the Defense Minerals Exploration Administration, Department of the Interior, Washington 25, D. C., or with the nearest DMEA Field Office.*

## CERTIFICATION

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

12-10 57
*Dated*

Lonnie Richards
BY *(Signature)*

Owner of Owner
*Title*

A wilfully false statement or certification to any Department or Agency of the United States Government is a criminal offense. U. S. Code, Title 18, Sec. 1001.

## INFORMATION REQUIRED WITH THIS APPLICATION

1. *Applicant's Property Rights:*

*(a)* State the legal description (section, township, and range; metes and bounds; patent number of claims) of the land upon which you wish to explore and all land adjacent to the proposed project area which you own or control. Describe any part of the project land or workings which should not be subject to Government lien for royalty payments. If the land consists of unpatented claims, state the book and page number for each recorded location notice, including amended locations, and the place where recorded (courthouse, recorder's office, county, and state).

*(b)* State all the names by which you know the property.

*(c)* State your interest in the land, whether owner, lessee, purchaser under contract, or otherwise. If you are not the owner, submit with this application one exact copy of the lease, contract, or other document (with address of owner) under which you control the property.

*(d)* Describe all liens, mortgages, or other encumbrances on the property.

2. *Physical Description:*

*(a)* Describe in detail and illustrate with maps or sketches all mining or exploration operations which you know have been or are being conducted upon the lands, including existing mine workings. Describe all production facilities.

*(b)* State your interest, if any, in operations stated in 2*(a)*.

*(c)* State, as far as you know, the past and current production, supporting your statement with copies of settlement sheets, mine records, or published data if available.

*(d)* Describe known ore reserves on the property giving quantities and grades and sampling methods used, supporting your statement with copies of assay certificates and assay maps if available.

*(e)* Describe by narrative and maps or sketches the geologic features of the property, including ore minerals, geologic formations if known, and type of deposit (vein, bedded, etc.).

*(f)* State your reasons for expecting to find ore, and if you have sampled the area you propose to explore, show where the samples were taken, describe sampling methods used, and provide copies of assay certificates.

*(g)* Send with your application at least *two* copies of all geologic or engineering reports, assay maps, or technologic information which you may have, indicating on each whether you require its return to you.

3. *Accessibility of Project:*

*(a)* To aid DMEA representatives who may be required to examine the property, state the name and address of the person who will meet the DMEA representative; give directions for reaching the property; and describe accessibility of the property including the mine workings.

*(b)* Name the shipping and supply points and places where employees reside and state the distances between them and the property.

4. *The Exploration Project:*

*(a)* Describe fully the proposed exploration project giving individual footages and sizes of openings *for each item of work.* Use narrative, maps, plans, and longitudinal and cross sections as necessary. Show the location of the proposed work as related to geologic features such as veins, ore-bearing beds, contacts of rock formations, etc. Show also the relation of the proposed work to any existing mine workings and to *property boundaries* or to the closest identifiable corner.

*(b)* If an access road to the project must be built, show the location on the property map and state the length, type, and construction methods proposed.

*(c)* In the event that an exploration contract with DMEA is executed, how soon will the work start and how many months will be required to complete it? State your anticipated average daily or monthly rate of progress for each type of work.

5. *Experience:*

State your operating experience and background with relation to your ability to carry out this exploration project, and also that of the person or persons who will supervise the operations.

6. *Estimate of Costs:*

Furnish detailed estimates of the costs *for each item of the work proposed in 4(a)* under the headings listed below with a total for each heading and the estimated total cost of the project. Costs for any work to be performed by an independent contractor should be shown separately under category *(a)* below. Costs for any work that is not to be performed by an independent contractor should be given in detail under categories *(b)* through *(g)*.

*(a)* Independent contracts. State the cost of any proposed independent contract for the performance of all or any part of the work, expressed in units of work, such as per foot of drilling, per foot of drifting, per hour of bulldozer operations, per cubic yard of material moved. Cost estimates should be supported by bids from three contractors if possible. *(Note* – If none of the work is to be contracted, write "none" after this item.)

*(b)* Personal services. For necessary supervision, engineering and geological services, and labor, include an itemized schedule of numbers, classes, rates of wages, salaries or fees, and periods of employment. State whether these technicians and employees are available.

*(c)* Operating materials and supplies. List items of material and supplies with their cost. Include under this heading power, water, and fuel, and units of equipment and tools costing less than $50 each.

*(d)* Operating equipment. List items of operating equipment to be used giving specifications and indicating how each item is to be acquired – i.e., rented, purchased, or provided by the applicant. If it is rented or purchased, state the estimated rental or purchase price. If it is to be furnished by the applicant, give its present fair market value.

*(e)* Initial rehabilitation and repairs. Describe the type and the cost of necessary *initial* rehabilitation or repair of existing buildings, fixtures, installations (exclusive of mine workings), and movable operating equipment now owned by the applicant, which will be used on the exploration project.

*(f)* New buildings, fixtures, installations. Describe each building, fixed improvement, and installation to be purchased, constructed, or installed for the exploration project stating specifications and cost including labor, materials and supervision.

*(g)* Miscellaneous. For the operating equipment listed in 6*(d)*, describe the type and estimate the cost of repairs and maintenance expected during project operations. Do not repeat initial repairs listed in 6*(e)*. Show also the costs of analytical work, accounting, workmen's compensation and employees' liability insurance, payroll taxes, and other required costs that do not fall within the previous categories.

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

7. *(a)* State whether you are prepared to furnish your share of the cost of the proposed project in accordance with the regulations on Government participation stated in Sec. 7 of DMEA Order–I, Revised.

*(b)* Explain to what extent you propose to furnish your share of the costs by providing money, by use of equipment owned by you, or otherwise.

* * * * *

INT.-DUP. SEC., WASH., D.C. 25960

1a The SE ¼ of SW ¼ of section 31 T 37 north R 38 E.W.M.
and the SE ¼ of section 31 T 37 N R 38 E.W.M.
and the north ½ of Lot 2 in section 6 T 36 north
R 38 E W M situated in Okanogan county
State of Washington

1B The John J. Frostad Homestead

1C Lessee
John J. Frostad
Malaga Washington

Copy of lease was enclosed,
marked "To be returned"

1D none


OPERATIONS FILE COPY
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2 B. minor prospecting and Examination

2.C. The Blue Bell mine mined native silver in 1899 according to the man who Homesteaded this property. no proofs known

2 D There is a zone of Grayish to Green to white Talc. that lays in an arc. at the highest point of arc is about 10 to 12' high and app. 40' in length this talk was cut by road cut The contact along side of talc is a quartz & Limonite with Dolomite ankerite some pyrite Chromite & nickel.

at the East side of mineralized zone is a felsy contact and fault zone along side of this contact there is a ridge that runs north & south 3000 ft with ever outcrop showing Limonite plus a pinkish quartz with annafergite nickel bloom. Spectrographic analysis shows .01% to 1% Antimony Chromium Copper Lead magansse nickel potassium Strontium

2.E. This is a Serpentine mineralized zone with zones of different mineral Consisting of Iron nickel Chrom silver some gold & many indications of

other mineral

2 F. I have 6 samples of rock from different areas and had them tested by the Bureau of mines at Albany Oregon also 2 for qualitative Spectrographic analysis Ours an area of ½ mile by ¼ mile they all showed nickel & Chromium.

2 G. 1 sheet from Bureau of mines
4 sheets from Washington Mining Inspectors

3 a. Lonnie Richards 911 north Walnut Colville Wn
this property is accessible by highway and access roads as map will show

3 B. shipping point will be Marcus Wn
no employees but at the site is just across road from the Town of Marcus

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4a I wish to drive Tunnel 50' into Talc Out crop This will mean moving all material across road due to road way there is no room for Dump between Out crop & road.

Diamond Drill at two Locations on ridge carring nickel bloom 3 to 500 ft

Bulldoze stripping from Sulfide Decomposed area to contact of serpentone rock also bulldoze strip along contact of talcy & limonite.

4B. no road way will be needed

4C. The work can be started at once This work should be done in 3 mo.

5 a. I have been a General contractor - construction for 5 yrs before that I was General Foreman I am well acquainted with labor & material also for over being General for Carbon works

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DATE

6a Diamond Drilling = @ 3.00 ft $3000.00

Bulldozing 12.00 hr Est. 40 hrs 480.00

Stripping face of Zalc Shovel & Truck
Est. 12 hrs @ 25.00 & 2 operators = 300.00

6B 1 Engineer 30 days 1500.00
3 Laborers 30 days 1800.00
1 Supervisor staff my self

6C picks 3 @ 5.50 16.50
shovels 3 @ 6.50 19.50
fuel 25 Gal per shift 8.25 41.25
powder Estimated 500 lbs 45.00
fuses & caps " " 50.00

6D Compressor & Hammer
Rented @ 25.00 per day 30 days 750.00

6E none

6F none

6G. Liability Insurance 25.00
Industrial & FICA 90.00
Assays & Tests 200.00
$3317.20

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7B. Transportation & Labor 1 pickup truck rental 12.50

# Washington Testing Laboratories, Inc.

N. 118 BROWNE SPOKANE 1, WASHINGTON PHONE TE. 8-2918

Date: November 26, 1957

Lab. No. A 1776

Report to: Lonnie Richards

Report on: Samples submitted

Sample identification: No. 1, Quartz

This sample of quartz was taken from ridge of nickel bloom from old shaft near the south end

Tests performed and results: QUALITATIVE SPECTROGRAPHIC ANALYSIS

| .01% or Less | .01% to 1% | 1% to 5% | 5% to 30% | Over 30% |
|---|---|---|---|---|
| Arsenic | Antimony | Aluminum | | |
| Boron | Chromium ✓ | Silicon | Calcium | |
| Molybdenum | Copper ✓ | | ~~XXXXX~~ Iron | |
| Silver | Lead ✓ | | Magnesium | |
| Sodium | Manganese ✓ | | | |
| Tin | Nickel ✓ | | | |
| Titanium | Potassium | | | |
| Vanadium | Strontium ✓ | | | |
| Zinc ✓ | | | | |
| Zirconium | | | | |
| Cobalt ✓ | | | | |

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BY Arthur M. Hayden

# Washington Testing Laboratories, Inc.

N. 118 BROWNE SPOKANE 1, WASHINGTON PHONE TE. 8-2918

Date: November 26, 1957

Lab. No. A 1776

Report to: Lonnie Richards

Report on: Sample submitted

Sample identification: No. 2, Broken Rock

This sample was taken from Decomposed serpentine short center of property

Tests performed and results: QUALITATIVE SPECTROGRAPHIC ANALYSIS

| .01% or Less | .01% to 1% | 1% to 5% | 5% to 30% | Over 30% |
|---|---|---|---|---|
| Cobalt | Aluminum | | Iron | |
| Manganese | Boron | | Magnesium | |
| Molybdenum | Calcium | | Silicon | |
| Potassium | Chromium | | | |
| Silver | Copper | | | |
| Strontium | Lead | | | |
| Titanium | Nickel | | | |
| Vanadium | | | | |
| Zinc | | | | |

BY Arthur M. Wangden

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Region I

Albany, Oregon
October 14, 1957

P-8864

OFFICIAL FILE COPY
DMEA
RECEIVED DEC 23 1957
DATE | INITIALS | CODE

Mr. Lonnie Richards
P. O. Box 95
Colville, Washington

Dear Mr. Richards:

Your five samples, received September 18, 1957, have been identified as follows:

Sample 1 is a metamorphic rock consisting essentially of talc with some dolomite, ankerite, and magnesite and small amounts of chromite and quartz.

Sample 2 consists essentially of serpentine.

Sample 3 essentially contains ankerite, magnesite, and dolomite, some quartz, a small amount of pyrite, and a very small to trace amount of chromite.

Sample 4 consists primarily of dolomite, ankerite, and magnesite, some quartz, small amounts of chromium-bearing mica and limonite, and a very small to trace ~~amount of chromite.~~

Sample 5 is a contact metamorphic rock consisting essentially of garnet and epidote with a small amount of associated quartz and ferro-magnesian minerals.

In our opinion these samples have no commercial value.

Sincerely,

H. D. Hess

H. D. Hess, Head
Petrographic Laboratory

This sample is from mother Ferrosally

This is a sample of the material obtained from the drill hole at Lake

# U. S. Government Messenger Envelope

Standard Form No. 65 (Rev. 1/46)

1. Use blocks consecutively, one at
2. Void previous block.
3. Write clearly.

| NAME OR TITLE OF PERSON, DEPARTMENT, ADDRESS, AND ROOM | | NAME OR TITLE OF PERSON, DEPARTMENT, ADDRESS, AND ROO | |
|---|---|---|---|
| ~~Mr. Bagley~~ ~~Wm 14 D.C~~ ~~F. O. B. Trash~~ | RUN / STOP | | RUN / STOP |
| Bagley 4 SL | RUN / STOP | | RUN / STOP |
| Alice Bandy 4921 | RUN / STOP | | RUN / STOP |
| Hon. C. O Mittendorf Adm. DMEA Room 4459 Interior Att: Mr. W Chamberlain 6 | RUN / STOP 43 | | RUN / STOP |
| | RUN / STOP | | RUN / STOP |
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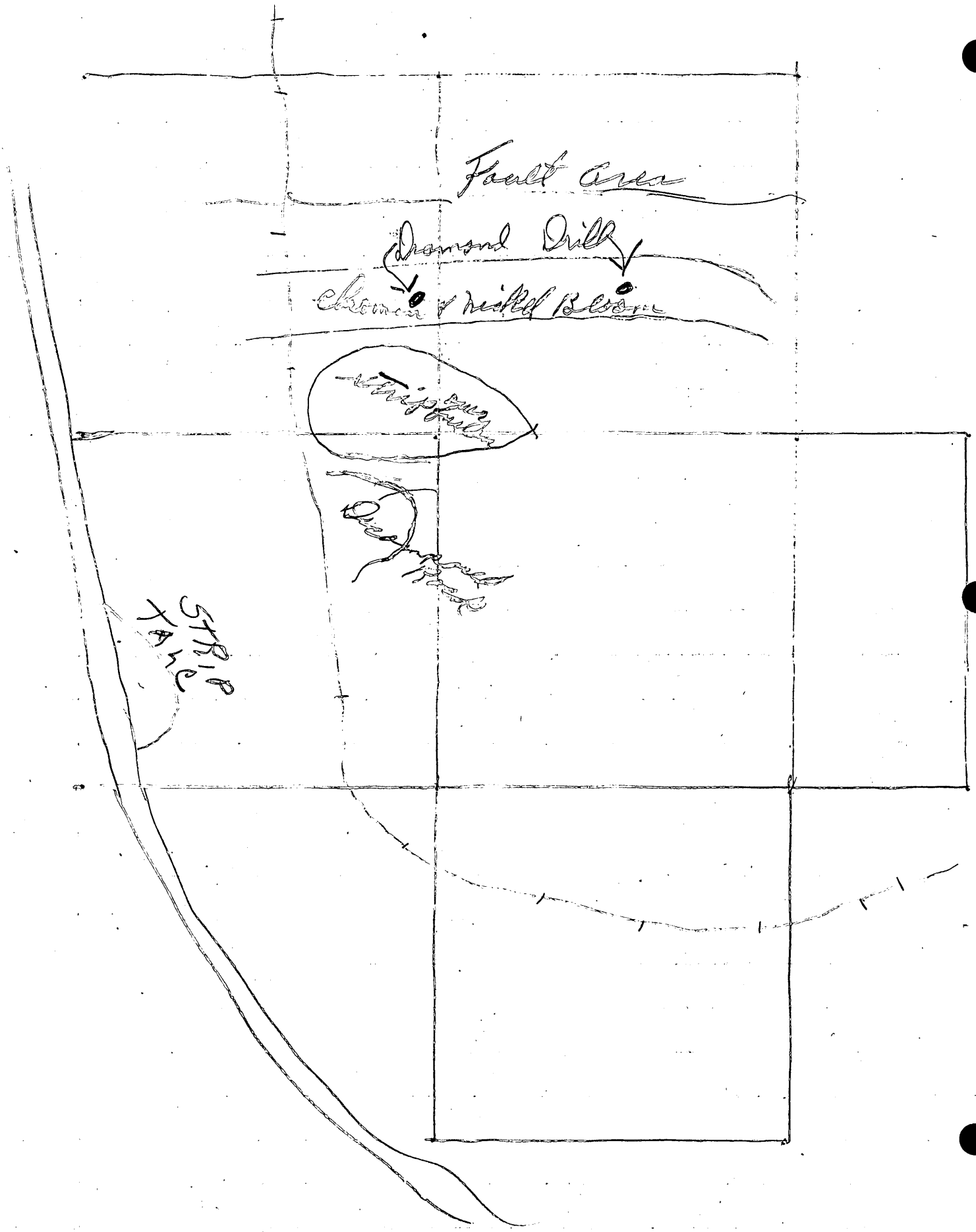
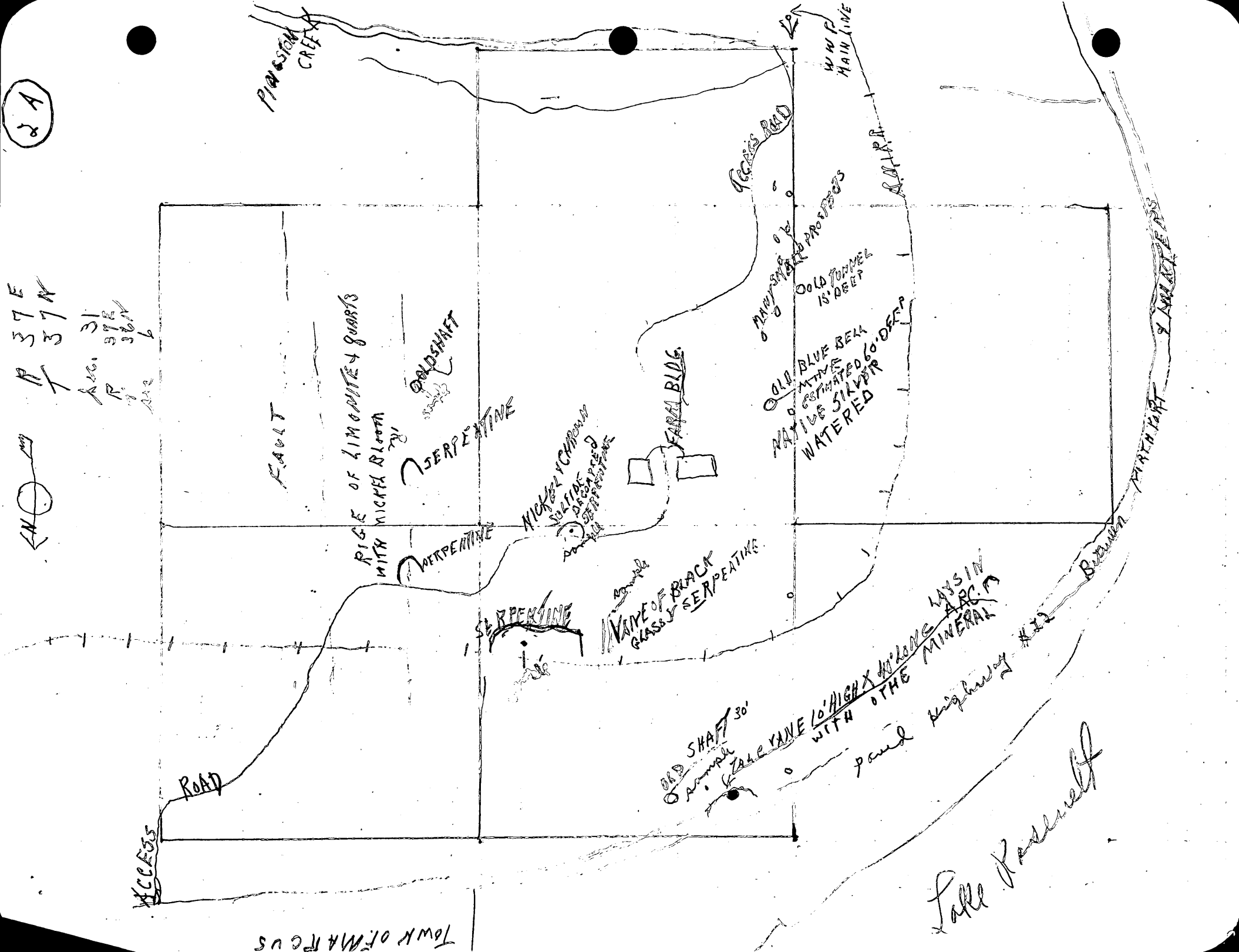
*Send surplus envelopes to supply room for reissue.*

Use other side

**Use RUN and STOP only when messenger service between Government buildings in Washington is required. Your mail room has RUN and STOP information.**


North
Fault area
Diamond Drill
Chromite & Nickel Bloom
STRIP
TANC

OFFICE OF THE CHIEF
DMSA
RECEIVED AUG 28 1987
DATE | REFERENCE | SIGN


PIERSTON CREEK
H.W.P. MAIN LINE
REGIS ROAD
MANY SMALL PROSPECTS
OLD TUNNEL 15' DEEP
OLD BLUE BELL MINE ESTIMATED 60' DEEP
NATIVE SILVER WATERED
FARM BLDG.
NICKEL & CHROME SOLIDIFIED DECOMPOSED SERPENTINE
SERPENTINE
RIDGE OF LIMONITE & QUARTS WITH NICKEL BLOOM
GOLDSHAFT
FAULT
VEIN OF BLACK GLASSY SERPENTINE
OLD SHAFT 30'
LAKE VALVE 10' HIGH X 40' LONG WITH OTHER MINERAL
LAYS IN ARC.
pond
highway #12
Between
MARLBOROUGH
ROAD
ACCESS
TOWN OF MARLBOROUGH
Lake Roosevelt
R 37 E
T 37 N
SEC. 31
R 37 E
T 36 N

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DMEA Form 7
(12-56)

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| Date | Surname | Code |
|---|---|---|
| 4-16 | Hopkins | 400 |
| 4-16 | Martin | 400 |
| 4/21 | [illegible] | 110 |
| | | 100 |
| | | |
| | | |
| | | |
| | | |
| | | |

April 15, 1958

MEMORANDUM

To: Administrator

From: Division of Iron and Ferro-Alloys, DMEA

Subject: Denial of the subject application for exploration assistance in the amount of $8,317.50.
Docket No. DMEA 4902 - Nickel, Chromium and Talc
Lonnie Richards
Frosted Homestead
Stevens County, Washington

A denial of the subject application for exploration assistance is recommended by this Division based on the following information:

The property was examined January 16, 1958, by E. W. Parsons, Mining Engineer, U. S. Bureau of Mines, and W. C. Prinz, Geologist, U. S. Geological Survey, accompanied by Lonnie Richards, the Applicant.

Applicant: Lonnie Richards
Box 95
Colville, Washington

Property Ownership: The property consists of 220 acres of deeded land lying on the east bank of the Columbia River. The homestead consists of the SE$\frac{1}{4}$ and the SE$\frac{1}{4}$ of SW$\frac{1}{4}$ sec. 31, T. 37 N., R. 38 E. and the NW$\frac{1}{2}$ Lot 2 sec. 6, T. 36 N., R. 38 E., Willamette Meridian.

Mining rights are leased for 5 years with an option for another 5 years.

Geology: Surface exposures consist of road and railroad cuts and outcrops of serpentinite, altered dolomitic marble and talc schist.
The talc is foliated and impure and this is not of the "block steatite" grade necessary to be eligible for DMEA assistance. The serpentinite contains some chromium and nickel but in amounts expected for a rock of this type and thus of sub-commercial grade.

Past History and Development:
Work on the property consists of a 60 foot adit driven years ago in prospecting for gold and silver, two or possibly more 10 to 15 foot adits and a shaft about 40 feet deep.

8623

There has been no recent work on the property.

Ore Values
and
Tonnage:

No nickel or chrome minerals are megascopically visible, and two samples each assayed by Peter Mack and by the Bureau of Mines show only minor amounts of these minerals. The results of the assays are as follows:

| Sample | % Ni | | % C | |
|---|---|---|---|---|
| | Mack | USBM | Mack | USBM |
| EWP-14B | 0.23 | 0.43 | 0.22 | 0.29 |
| EWP-15B | 0.24 | 0.28 | 0.21 | 0.27 |

Thus there are no indicated or inferred reserves.

Applicant's
Proposal:

The Applicant's proposal calls for driving a 50-foot adit southward into the talc schist exposures in the road cut and diamond drilling 300 to 500 feet of hole at each of the two locations on the ridge which supposedly carry nickel bloom; and stripping with bulldozer the contact between decomposed sulphide and serpentine and the contact between porphyry and limonite. The sulphide area referred to is the pyritic serpentine along the road 500 feet northeast of the farm. No porphyry-limonite contact was seen.

Comments
and
Conclusions:

The members of the Field Team concur in the recommendation that the application be denied because the exposures of serpentine contain no commercial quantities of nickel or chrome and there are no visible talc bodies of block steatite type.
The Commodity Divisions of the Bureau of Mines and Geological Survey concur in the recommendation.

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

JHOPKINS/dlm 4-16-58
cc to: Code 400
Oper. Comm.
Admr. R. File
Mr. Johnson

DMEA Form 7
(12-56)

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| Date | Surname | Code |
|---|---|---|
| 4-16 | Hopkins | 400 |
| 4-16 | Mittendorf | 400 |
| 4/21 | Selfridge | 130 |
| 4/21 | Hopkins | 130 |
| 4/21 | Kiilsgaard | 130 |
| " | Johnson | 110 |
| " | Mittendorf | 100 |
| | | 270 |
| | | |

APR 21 1958

Mr. Lonnie Richards
Box 95
Colville, Washington

Re: Docket No. DMEA 4902 - Nickel
Chromium, Talc
The John J. Frostad Homestead
Stevens County, Washington

Dear Mr. Richards:

Your application for aid for an exploration project and other data available to us in Washington relative to the above-named property have been carefully reviewed.

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

Careful study of our information indicates that although nickel, chromium and talc mineralization occurs on the property, the probability of disclosing minable ore reserves is not sufficiently promising to justify Government participation. We regret to advise you, under these circumstances, that your application for exploration assistance is denied.

Your interest in the Defense Minerals Exploration Administration program is appreciated. Thank you for bringing this property to our attention.

Sincerely yours,

C. O. Mittendorf (for)

Administrator

JHOPKINS/dlm 4-16-58
cc to: Code 400
Admr. R. File
Oper. Comm.
FT. REG. I
Messrs. H. W. Davis, USBM
T. H. Kiilsgaard, USGS

8623

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

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RECEIVED APR 18 1958

| DATE | | CODE |
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| 4/18 | C | 220 |
| | | 402 |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

April 17, 1958

Re: DMEA 4902
Lonnie Richards
Frostad Homestead
Stevens County, Washington
$8,317.50 - Nickel,
chromium, talc

Memorandum

To: W. S. Martin, Director, Division of Iron and Ferro-Alloys, Defense Minerals Exploration Administration

From: Hubert W. Davis, Branch of Ferrous Metals and Ferroalloys

Subject: Review of application

Inasmuch as the Field Team found no minerals or rocks of strategic value, I concur with the recommendation of the Field Team that the application be denied.

Hubert W. Davis

Hubert W. Davis

Attachment

IN REPLY REFER TO:

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

March 27, 1958
Re: DMEA 4902
Lonnie Richards
Frostad Homestead
Stevens County, Washington
$8,317.50 - Nickel, chromium, talc

Memorandum

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

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

Subject: Review of Field Team Report

The applicant requested assistance in exploring by stripping and diamond drilling a zone said, by the applicant, to contain serpentine, talc, and veins showing the nickel bloom, annabergite. The only work on the property was done up to 80 years ago in a search for gold.

The examiners found no minerals or rocks of strategic value and recommend that the application be denied.

I concur with the recommendation.

N. E. Nelson

N. E. Nelson

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
So. 157 Howard Street
Spokane 4, Washington

March 19, 1958

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

Re: Docket No. DMEA-4902 (Nickel-Chromium-Talc)
Lonnie Richards
John J. Frostad Homestead
Stevens County, Washington

Dear Mr. Selfridge:

Enclosed are three copies of a memorandum examination report on the referenced property by E. W. Parsons, Mining Engineer, U. S. Bureau of Mines, and W. C. Prinz, Geologist, U. S. Geological Survey.

Parsons and Prinz conclude that the exposures of serpentinite contain no commercial quantities of nickel or chromium and that there are no apparent bodies of block steatite talc. They, therefore, recommend that the application be denied.

We concur with the examiners' recommendation.

By Field Team, Region I

A. E. Weissenborn, Exec. Officer
U. S. Geological Survey

Wing G. Agnew, Member
U. S. Bureau of Mines

Enclosures

cc: USBM (2)
USGS (SRO)
Prinz

Reviewed by
DMEA OPERATING COMMITTEE
3-26-58
(date)

DMEA

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UNITED STATES
DEPARTMENT OF THE INTERIOR
Defense Minerals Exploration Administration
So. 157 Howard Street
Spokane 4, Washington

March 14, 1958

MEMORANDUM

To: DMEA Field Team, Region I

From: E. W. Parsons, Mining Engineer, U. S. Bureau of Mines and W. C. Prinz, Geologist, U. S. Geological Survey

Subject: Field Examination Report, Docket No. DMEA-4902 (Nickel-Chromium-Talc), Lonnie Richards, John J. Frostad Homestead, Stevens County, Washington

ON SITE EXAM.

## INTRODUCTION

Mr. Lonnie Richards submitted an application on December 13, 1957 for aid to explore serpentine outcrops for nickel, chromium, and talc on the John J. Frostad homestead located in sec. 31, T. 37 N., R. 38 E., and sec. 6, T. 36 N., R. 38 E. W. M., Stevens County, Washington.

The property was prospected for gold and silver possibly 80 years ago at which time a number of adits and one or more shafts were driven.

## SUMMARY

The property was examined January 16, 1958, by E. W. Parsons, Mining Engineer, U. S. Bureau of Mines, and W. C. Prinz, Geologist, U. S. Geological Survey, accompanied by Lonnie Richards, the applicant.

Work on the property done years ago consisted of driving an adit 60 feet long just above State Highway 22 on the south edge of the Marcus townsite, two and possibly more adits 10-15 feet long near the highest points on the property, and a shaft about 40 feet deep (Blue Bell mine) on the flat back of the bluff overlooking the Columbia River in the western part of the property. Road and railroad cuts have exposed bedrock at a number of points on the property. There has been no recent prospecting work.

Reviewed by
DMEA OPERATING COMMITTEE
3-26-58
(date)

map submitted by the applicant. | January, 1958 | Figure 1

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Rock types exposed on the property include black slate, dolomitic marble, talc schist, and serpentinite. The talc is foliated and impure and thus is not of the "block steatite" grade necessary to be eligible for DMEA assistance. The serpentinite contains some chrome and nickel, but in amounts expected for a rock of this type and thus of subcommercial grade.

## RECOMMENDATION

The members of the examining team concur in the recommendation that the application be denied because the exposures of serpentinite contain no commercial quantities of nickel or chromium and there are no visible talc bodies of block steatite type.

## ACCESSIBILITY

The Lonnie Richard's property, the John J. Frostad homestead, consists of 220 acres of deeded land lying on the east bank of the Columbia River. State Highway 22 and a branch of the Great Northern Railway cross the property. From Kettle Falls, Washington, go west on U. S. Highway 395 about 1 mile to State Highway 22, then right for 4 miles to the property.

## PROPERTY

The property consists of 220 acres of deeded land known as the John J. Frostad homestead. This homestead consists of the SE$\frac{1}{4}$ and the SE$\frac{1}{4}$SW$\frac{1}{4}$ sec. 31, T. 37 N., R. 38 E. W. M., and the N$\frac{1}{2}$ Lot 2 sec. 6, T. 36 N., R. 38 E. W. M. Mining rights on the property were leased to Lonnie Richards of Colville, Washington on September 30, 1957 for a period of 5 years with an option to renew for another 5 years.

## COMPETENCY OF APPLICANT

The applicant is a contractor who specializes in residence and small business building construction. He apparently knows little about mining or mineral occurrences but probably could supervise the proposed work.

## DESCRIPTION OF PROPERTY

The property lies along and at the top of a steep bluff overlooking the east bank of the Columbia River. Surface exposures consist of road and railroad cuts and outcrops of serpentinite, altered dolomitic marble, and talc schist. A steep private lane leaves State Highway 22 at Marcus and climbs



| | | |
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| ... topographic quadrangle and map submitted by the applicant. | January, 1958 | Figure 1 |

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southwestward to a farmhouse at the top of the bluff possibly 400 feet high and another farm road leads southward across the farm and circles to the highway southwest of the property (fig. 1).

Workings consist of one adit 60 feet long near Highway 22 at the base of the bluff in the NW¼SE¼ sec. 31, a 15-foot-long adit near the top of the bluff about 2,000 feet to the southeast, a 10-foot-long adit in a knoll in back of the bluff southwest of the farm buildings, and a shaft 40 feet deep. There are no mining facilities or equipment on the property. Two channel samples of crushed and broken serpentinite were taken from a road cut on the lane about halfway between the railroad track and the farm house and one grab sample of dolomitic marble with green streaks was taken from along the railroad cut.

## GEOLOGY

The Frostad homestead is in west-central Stevens County, Washington, in an area underlain primarily by Paleozoic sediments. Unfortunately, no detailed maps or reports covering this area are available. The examining team studied the exposures in three road cuts, one railroad cut, and two short adits in the SE¼ sec. 31, T. 37 N., R. 38 E., all of which the applicant felt were important in evaluating his property. In addition, we looked at a shallow shaft and short adit (the old Blue Bell mine) in the southwestern part of the property away from the area included in the proposed exploration program (fig. 1).

A variety of rock types are found in the exposures studied. Fissle black carbonaceous slate is found in the adit a short distance above Highway 22 in the NW¼SE¼ sec. 31. This rock is banded with thin black slate bands alternating with thin gray chert bands. The banding and foliation in the slate generally strike east-west and dip north but they are contorted and variable. Pyrite cubes are commonly present, but nothing indicating anything of commercial value is visible. This unit is similar to the Middle Ordovician Ledbetter slate of the Metaline district with which it may be correlative.

A nonhomogeneous rock, probably a dolomitic marble, is found in the railroad cut in the NW¼SE¼ sec. 31 and in the short adit in the SE¼SE¼ sec. 31. This rock is mottled white, yellow-brown, green, and black. It consists mostly of white to brownish dolomite, in some places silicified. Commonly the white dolomite forms stringers and appears secondary. Streaks of a bright green, soft mineral are found in some of the dolomitic marble specimens. Since the applicant thought

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that this might be a nickel stain, a sample (EWP-16B) of this rock was assayed and a spectographic analysis run. The assay by Peter Mack showed 0.18 percent nickel, 0.24 percent chrome, and no copper; the one by the U. S. Bureau of Mines, Albany, Oregon, laboratory showed 0.08 percent nickel, and less than 0.01 percent copper; chrome was not determined. The spectrographic analysis by the Bureau of Mines showed: more than 10 percent calcium and magnesium, 1 to 5 percent iron and silicon, and 0.1 to 1 percent aluminum, chromium, manganese, and nickel; others were all under 0.1 percent. The high calcium and magnesium content is to be expected in a dolomitic marble, and the low nickel shows that the green stain is not due to this element. The high magnesium and moderately high iron content indicates that this stain is either a bright green, micaceous mineral (talc?), or a green iron stain, probably the latter. Streaks of black in the rock result from a mineral too fine-grained to be identified in hand specimen. Some quartz is also found in the marble, and in a few places this rock is rich in limonite; possibly the carbonate has been dissolved and replaced by limonite. This rock obviously has no commercial value.

Light-gray to pale-green talc schist is exposed along a road cut in Highway 22 in the NW$\frac{1}{4}$SE$\frac{1}{4}$ sec. 31. This talcose rock is impure as it commonly contains disseminated fine grains of pyrite and may also be quite calcareous. Stringers of quartz also cut the talc schist. The rock is foliated and not of the "block steatite" quality required for DMEA project participation. A dark-gray to greenish-gray, slightly talcose phyllite is associated with the talc schist at this road cut. This rock is probably chloritic and may be an altered tuff. Serpentinite is exposed in two road cuts in the N$\frac{1}{2}$SE$\frac{1}{4}$ sec. 31 and is associated with dolomitic marble in the railroad cut to the north. The serpentinite is fine-grained, black to green and may be either massive or foliated. The foliated varieties commonly have a greasy feel, probably due to partial alteration to talc. The massive varieties commonly have a blocky fracture. Streaks or pods of paler green, fibrous serpentine are found locally. The fibers are brittle and are as much as 1$\frac{1}{2}$ inches long. Stringers or veinlets of dolomite, calcite, or quartz cut some of the serpentinite, and pyrite and marcasite are also present in a few places. No nickel or chrome minerals are megascopically visible, and two samples, each assayed by Peter Mack and by the U. S. Bureau of Mines, show only minor amounts of these elements. The results of these assays are as follows:

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| Sample No. | % Ni Mack | % Ni USBM | % Cr Mack | % Cr USBM |
|---|---|---|---|---|
| EWP-14B | 0.23 | 0.43 | 0.22 | 0.29 |
| EWP-15B | 0.24 | 0.28 | 0.21 | 0.27 |

Both samples were assayed for copper: Mack found none, the Bureau of Mines less than 0.01 percent. Rankama and Sahama (Geochemistry, 1950) state that peridotites and dunites contain an average of 0.316 percent nickel and 0.34 percent chrome. Therefore, these serpentinites contain less of these two elements than would be expected from the average amounts found in ultrabasic rocks, and their chrome-nickel content does not indicate ore.

It must be concluded that the chances of discovering a significant deposit of nickel-chrome ore on the property are poor. The talc is not of "block steatite" quality and the serpentinite contains only average amounts of nickel and chrome.

## PAST OPERATIONS

Previous work on the property was done apparently while prospecting for gold and silver. There is no record of any shipments but rumor credits the shaft (Blue Bell mine) with having produced some native silver. No valuable minerals were found on dumps of any of the workings.

## SUPPLIES AND EQUIPMENT

Materials, supplies, and equipment are available to some extent in Colville, Washington, 14 miles southeast, and in Spokane, Washington, 104 miles south. Labor is available locally and the wage scale starts at $16.00 per day. Water for drilling would have to be hauled from wells or from the Columbia River. Most equipment is powered by gasoline or diesel engines. Electric power, although available near the property, probably would not be used.

## APPLICANT'S PROPOSAL

The applicant's proposal calls for driving a 50-foot adit southward into the talc schist exposure in the road cut; diamond drilling 300 to 500 feet of hole at each of two locations on the ridge which supposedly carries nickel bloom; and stripping with bulldozer the contact between decomposed sulfide and serpentine, and the contact between porphyry and limonite. The sulfide area referred to is the pyritic serpentinite along the road cut 500 feet northeast of the farm; no porphyry-limonite contact was seen. The cost of the proposed project was estimated to be $8,317.20.

It was pointed out to the applicant that some of the material exposed in outcrops and cuts is serpentinite with the material in some areas approaching soapstone, that it is doubtful that the areas are large enough to be mined if they should be commercially valuable, and that no nickel or chrome minerals can be seen.

The examining team recommends that the application be denied because the talc bodies are small and are not of strategic quality, and the nickel and chromium content of the serpentinite is too low to be of interest.

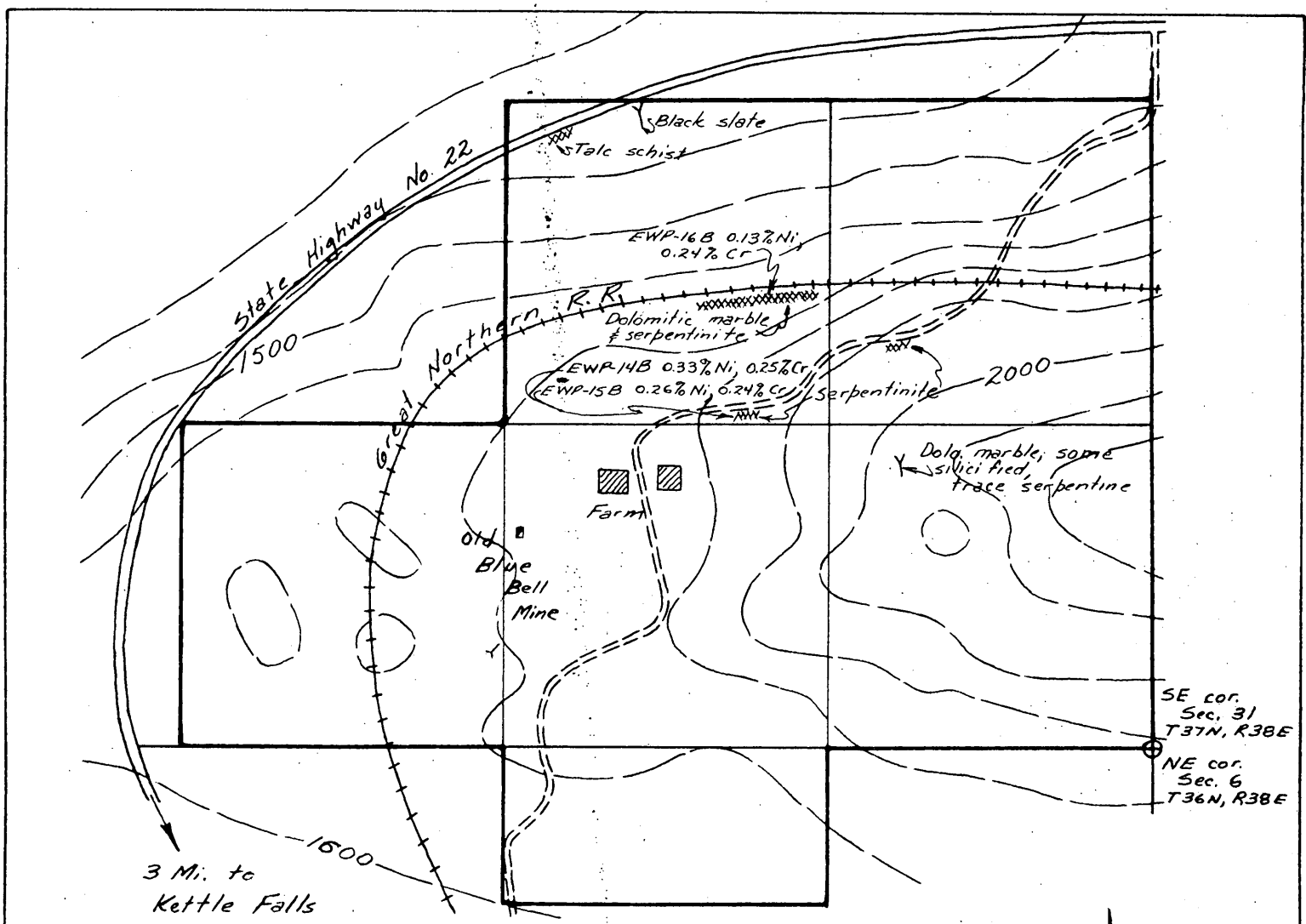
Attachment 1

Distribution:
DMEA (3)
USBM (5)
USGS(SRO)
Docket
Prinz

United States
Dept. of the Interior

Prepared For
Defense Minerals Exploration Administration
Application Report

Docket No. DMEA-4902




EXPLANATION

Contour line, 100' Interval

Outcrops examined

Adits examined

Property boundary

Section and "40" lines

Assays shown are average of Peter Mack & U.S.B.M.

After Marcus, Wash. topographic quadrangle and map submitted by the applicant.

Sketch Map

FROSTAD HOMESTEAD

Stevens County, Washington

500 0 500 1000 1500 feet

W. C. Prinz

January, 1958

Figure 1

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So. 157 Howard Street
Spokane 4, Washington

January 9, 1958

Mr. Lonnie Richards
Box 95
Colville, Washington

Re: Docket No. DMEA-4902 (Nickel-Chromium-Talc)
The John J. Frostad Homestead
Stevens County, Washington

Dear Mr. Richards:

Thank you for your letter advising us that you are out of the hospital and are ready to show us your property. The field men, who will examine your property, are in the field and will not return until about the 17th of the month. As soon as they can, they will advise you when they will be able to inspect your property.

Sincerely yours,

D. R. MacLaren
for: A. E. Weissenborn
Executive Officer, DMEA
Field Team, Region I

cc: DMEA (2) w/2 copies of incoming
USBM (2) w/2 copies of incoming
Albee

COPY

Lonnie Richards
Box 95
Colville, Washington

D. M. E. A.

This is just to let you know I have returned from hospital and will be available to show you my property.

Let me know if it can be examined in the near future.

Sincerely

/s/ Lonnie Richards

DMEA Form 7
(12-56)

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| 1-8 | Anderson | 600 |
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JAN 8 1958

Mr. A. E. Weissenborn, Executive Officer
DMEA Field Team, Region I
South 157 Howard Street
Spokane 4, Washington

Re: Docket No. DMEA 4902 - Nickel
Chromium and Talc
Lonnie Richards
The John J. Frostad Homestead
Stevens County, Washington

Dear Mr. Weissenborn:

The above-docketed application for exploration assistance is being referred to your office for review and a field examination of the property, if necessary. It seems unlikely that further correspondence with the Applicant would provide us with the additional information required for proper consideration of the proposed project.

Copies of memoranda dated December 26, 1957, and January 3, 1958, by Mr. N. F. Nelson, Geological Survey and Mr. H. W. Davis, Bureau of Mines, respectively, relating to the project, are enclosed. Also enclosed is an extra copy of the application for the use of the Field Team.

Sincerely yours,

George C. Selfridge
esf
Chairman, Operating Committee

Enclosures

APPROVED:

C. M. Bishop
esf
Member, Bureau of Mines

Thor H. Kiilsgaard esf
Member, Geological Survey

JHOPKINS/dlm 1-8-58
cc to: Code 400
Admr. E. File
Oper. Comm.
FT. REG. I
Messrs. H. W. Davis, USBM
T. H. Kiilsgaard, USGS

8623

George

It will be more logical to deny or write for specific support for mineralization, target and program. However, in view of slack work would send to field as is and discuss this type of referral at staff meeting tomorrow.

FEJohnson

WSM
1/9/58

DMEA Form 7
(12-56)

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| " | Johnson | 110 |
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JAN 8 1958

Mr. Lonnie Richards
Box 95
Colville, Washington

Re: Docket No. DMEA 4902 - Nickel
Chromium, Talc
The John J. Frostad Homestead
Stevens County, Washington

Dear Mr. Richards:

The above-docketed application for exploration assistance for Nickel, Chromium and Talc ores has been reviewed by the Division of Iron and Ferro-Alloys of the Defense Minerals Exploration Administration and is being referred to Mr. A. B. Weissenborn, Executive Officer, DMEA Field Team, Region I, 157 Howard Street, Spokane, Washington for review and a possible field examination of the property.

If a field examination is considered necessary, any assistance that you may give the members of the Field Team will be appreciated.

As requested, your Agreement of Lease is returned herewith.

Sincerely yours,

Enclosure

Frank E. Johnson
ACTING Administrator

JHOPKINS/dlm 1-8-58
cc to: Code 400
Admr. R. File
Oper. Comm.
FT. REG. I
Messrs. H. W. Davis, USBM
T. H. Kiilsgaard, USGS

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

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January 3, 1958

Re: DMEA ~~4871~~ 470
Lonnie Richards
Nickel-Chromium-Talc
The John J. Frostad Homestead
Stevens County, Wash.

Memorandum

To: W. S. Martin, Director, Division of Iron and Ferro-Alloys, Defense minerals Exploration Administration

From: H. W. Davis, Branch of Ferrous Metals and Ferroalloys

Subject: Review of Application

The applicant's proposal pertains to a loan of $8,317.50 to explore a property known as the John J. Frostad Homestead in Stevens County, Washington.

Inasmuch as applicant has furnished insufficient information on which to base an opinion concerning the loan, it is recommended that the application be referred to the Field Team for its review and decision as to whether or not an examination of the property is warranted.

H. W. Davis
H. W. Davis

Attachment

# AGREEMENT OF LEASE

This Agreement of Lease made and entered into this 30th day of September, 1957, by and between JOHN H. FROSTAD and THELMA FROSTAD, his wife, as lessors, and LONNIE RICHARDS AND SOSEPHENE RICHARDS, his wife, as lessees, Witnesseth:

For value received, and in consideration of the mutual covenants herein contained, the lessors hereby lease to the lessees all rights to minerals, including talc, serpentine and all limestone, dolomite, or similar deposits, in and to the following described property:

The SE¼ of SW¼ of Section 31, Township 37 North, Range 38, E.W.M.
and the SE¼ of Section 31, Township 37 North, Range 38, E.W.M.
and the N½ of Lot 2 in Section 6, Township 36 North, Range 38, E.W.M.
Situated in Stevens County, State of Washington.

The lessees agree to rent said property for mining purposes for the term of [illegible] years from and after the date hereof. The lessees shall have the right to go in and upon said premises for the purpose of prospecting, mining, and removing things of all kinds therefrom, and all work done by the lessees shall be done in a good workmanlike manner without unnecessary waste. Any damage caused to crops or permanent improvements of lessors shall be compensated for by the lessees in a reasonable amount.

The lessees agree that they will pay to the lessors a sum equal to ten per cent (10%) of all net smelter returns and sales from ores or concentrates mined and removed from the premises, such payments to be made and when received from the smelter; and the royalties due to the lessors shall be mailed to them direct by the smelter.

The lessees agree that they will pay to the lessors a minimum royalty of [illegible] due and payable on the 1st day of October, 1958, and on the 1st day of October thereafter during the term of this Agreement, which amount shall be credited on royalties, and any amount of royalties in excess thereof shall be paid as [illegible] provided.

The lessors hereby give to the lessees the right and option to renew this lease for an additional term of five (5) years from and after the expiration hereof, subject to the same terms and conditions as above set forth.

The lessors or their agents shall have the right at all times to go in and upon the premises for the purpose of inspecting mining operations thereon, which shall not unreasonably interfere with the mining operations being conducted thereon by the lessees or their agents.

Time is of the essence hereof. Should the lessees fail to make the payments or keep the agreements as above set forth, the lessors shall have the right to cancel and terminate this Agreement of Lease by giving the lessees written registered notice setting forth the defaults complained of, and such defaults are not corrected within thirty days from and after the date of mailing thereof.

Upon the termination of this Lease, the lessees agree to surrender the premises of same to the lessors in as good condition as they now are, reasonable wear and tear and act of God excepted.

In Witness Whereof, the parties have set their hands the day and year first above written.

_____

_____

Lessors

_____

_____

Lessees

State of Washington )
County of Stevens ) ss

I, the undersigned, a notary public in and for said County and State, do hereby certify that on this 11th day of October, 1957, personally appeared before me John J. Krestad and Thelma Krestad, his wife, to me known to be the individuals described in and who executed the within instrument, and acknowledged that they signed and sealed the same as their free and voluntary act and deed for the uses and purposes therein mentioned.

Given under my hand and official seal the day and year last above written.

Notary Public in and for the State of Washington, residing at [illegible]. (

_____

IN REPLY REFER TO:

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

December 26, 1957
Re: DMEA 4902
Lonnie Richards
John J. Frostad Homestead
Stevens County, Washington
$8,317.50 - Nickel-Chromium-Talc

Memorandum

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

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

Subject: Review of application

The applicant requests assistance in exploring by stripping and diamond drilling a zone, said by the applicant to contain serpentine, talc, and veins showing nickel bloom, annabergite.

Spectrographic analyses also show chromium, copper, lead, manganese, etc., but there is no evidence that the metals occur in economic amounts, in fact the analyses indicate basic rocks were tested and no concentrations of the various metals are likely to be found.

Denial of the application without referral to the Field Team is recommended. Let's see what BM says

N. E. Nelson

N. E. Nelson

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

December 23, 1957

Mr. Lonnie Richards
Box 95
Colville, Washington

Dear Mr. Richards:

Subject: DMEA-4902

Your application for exploration assistance, dated December 10, 1957 submitted to our office at Spokane, Washington has been assigned Docket Number DMEA-4902 and referred to the Iron and Ferro-Alloys Division in the Washington office. Kindly identify all future correspondence relating to your application by this Docket Number.

Sincerely yours,

Allen S. Dakan, Director
Operations Control and
Statistics Division

Copy to:

Region I