DMA Form 1

DEFENSE MINERALS ADMINISTRATION
Control Slip Mercury.

CONTROLLED DOCUMENT

DMEA ~~DMA~~ Docket No. 2500

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This document has been recorded as

EXPLORATION PROJECT

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 Copies to USBM and USGS.
One copy was retained in Region I.

To:	Code 700, Rm. 4640	Date	4-28-52
To:	Opr. Committee	Date	5-26-52
To:	Mr Mittendorf	Date	
To:	Mails & Files	Date	
To:		Date	
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CONTROLLED DOCUMENT

FILE COPY
SURNAME:

Schmidt
Ellis
Lemmon
Hedges
Gibson

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

MAY 27 1952

Messrs. Dick R. Bellick
George Gillis
Flectmute, Alaska

Re: Docket No. [illegible]-2500
(Mercury-Antimony)
Barometer, Alice
Jessie Claims on
Kuskokwim River, Alaska

Dear Sirs:

Your application for aid in an exploration project on the Barometer Group and Alice Jessie claims has received careful consideration.

Projects approved by the Defense Minerals Exploration Administration must show promise of producing material of sufficient value and quantity to improve the mineral supply for National Defense.

A careful study of your application and the property concerned, reveals that the probability of accomplishing this is not considered sufficiently promising to justify Government assistance.

Under these circumstances we regret to inform you that the application for aid amounting to 75% of $20,000.00 has been denied. If future work at this property reveals evidence which could materially alter this decision please be assured we will be glad to consider a new application.

Sincerely yours,

C. D. Mittendorf (for) cc 5/27
Acting Administrator
Defense Minerals Exploration
Administration

H.Schmidt/jem
5/23/52
cc to: Adm. Reading File
Docket
Messrs. H.M.Meyer-3623
E.T.McKnight-4204
Ellis
Schmidt
Field Team, Region I (2) Operating Committee

5/20/52 gla

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

May 20, 1952

MEMORANDUM:

To: E. William Ellis

From: Helena M. Meyer

Subject: DMEA Docket 2500, Nick P. Mellick and George Willis, Sleitmute, Alas., Exploration Loan $20,000 (Mercury)

I have studied the subject application and recommend its denial.

The applicants propose to do trenching in an area already extensively trenched by the Bureau of Mines and described in Bureau of Mines Report of Investigations 4065, May 1947, and War Minerals Report 181 (Mt. Weather Tech. Files No. W.M.R. 181). Whereas, part of the proposed work is in an area not previously covered, as Mr. McKnight pointed out, this area represents too small a part of the whole to make the project appear desirable. The ore reserves indicated by Bureau of Mines are too small and the grade too low to recommend the project, particularly owing to the remote location of the prospects.

Helena M. Meyer

HELENA M. MEYER

Copy to: Minerals Division
Base Matals Branch
E. T. McKnight-GS
DMEA for field team
H.M.Meyer
FILES

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HELENA M. MEYER

HMMEYER/ez

Copy to: Minerals Division
Base Metals Branch
E. T. McKnight-GS
DMEA for field team
H.M.Meyer
FILES

5/15/52 gla

IN REPLY REFER TO:

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

May 14, 1952

Memorandum

To: Mr. E. W. Ellis

From: E. T. McKnight

Subject: Recommended denial of application

Re: DMEA-2500
Mellick and Willis
Alice and Bessie,
Barometer Claims on
Kuskokwim River, Alaska
Exploration, $20,000
Quicksilver

This application requests funds for further bulldozer trenching along the strike in an attempt to extend orebodies that have already been extensively trenched by the Bureau of Mines in 1942. There is a published Bureau of Mines' report (R.I. 4065) giving the results of the previous exploration, and there is an unpublished Geological Survey report on the geologic features of these deposits.

BAROMETER MINE

At the Barometer "mine" the cinnabar mineralization occurs along bedding plane joints and in openings along fracture and fault zones in shale and graywacke, particularly in the vicinity of dike-like intrusions of andesite.

Upper deposit

At the upper deposit, a mineralized zone striking northwest and dipping steeply southwest has been crossed by 4 trenches and has also been explored by an underground tunnel. The zone has been exposed intermittently over a length of 175 feet. The richest sample, over a 5-foot width at the southeastern end, assayed 16.5 lbs. of mercury per ton, 0.18% antimony, and 0.30% arsenic. The arsenic is a deleterious constituent from the standpoint of mercury metallurgy. Although the mineralized zone is 25 feet wide in the central area as determined from samples taken in the underground workings, the grade is low, the 2 highest grade 5-foot cuts in the underground cross section running 9.3 and 9.4 lbs. of mercury per ton, with 0.40 and 0.67 per cent arsenic respectively. These higher grade samples came from the footwall and hanging wall of the mineralized zone with lower grade material between.

The Bureau of Mines attempted to trace the mineralized zone southeast by bulldozing a trench 90 feet beyond the last showing of ore and another trench 75 feet still farther, but without success (See Fig. 8 of R.I. 4065).

On the northwest the outcrop of the mineralized zone is bordered by swampy ground, but a trench made beyond the swampy ground and 150 feet from the northwest exposure of the mineralized zone failed to reveal ore. The only premise on which the applicant could justify further work to extend the mineral zone on this deposit would be that the mineralized zone had deviated from the average strike revealed in the known mineralized area, so that the Bureau of Mines' trenching along the strike extension failed to crosscut it. In the absence of any argument or evidence presented by the applicant to this effect, and in view of the submarginal nature of the deposit already revealed, I recommend that no further exploration with Government funds be approved on this deposit.

Lower deposit

Faulting along the footwall of an andesite sill has created favorable conditions for cinnabar mineralization. Three trenches by the Bureau of Mines have revealed a mineralized zone striking a few degrees west of north and apparently dipping about 40° west. Two samples 50 feet apart, each from a 5-foot width, show 12.4 lbs. and 13.2 lbs. of mercury per ton. Most of the small production from the property has come from float and shallow pits at this deposit, but the lack of development to date indicates the marginal nature of the ore so far revealed. It appears that the mineralized zone is open on the north, but on the south it runs into swampy ground within 50 feet or so. Bulldozer trenching would undoubtedly be effective in defining the north limits. The deposit lies about 1 mile northwest of the Red Devil mine which has produced around 3,000 flasks of quicksilver, 1940-45, and the geologic occurrence is similar. Although the ore found to date is marginal, further prospecting on the extension of the deposit might conceivably reveal a richer ore shoot, and would be geologically sound.

ALICE AND BESSIE MINE

At the Alice and Bessie mine, a mineralized andesite sill striking northwest and dipping about 56° northeast in its central part has been explored by 19 bulldozer and hand-dug trenches spaced at about 50-foot intervals along the sill. The mineralized sill is also explored by a drift from a crosscut tunnel which hits the sill about 200 feet down dip from the outcrop.

The trenching showed a mineralized outcrop length of 620 feet along a northwest strike, in which cinnabar is visible in all except 1 of 10 trenches. However, the material in the 2 farthest

northwest trenches is not of ore grade. This leaves an ore zone 500 feet long, averaging 5.2 feet wide, and containing an average grade of about 16 lbs. of quicksilver per ton. The tonnage of ore indicated in this zone is 54,500 tons.

At the northwest end, the outcrop of the andesite swings to the west (and down hill), and crosscuts the strike of the shale and graywacke country rock. Several separated patches of the andesite are exposed, indicating that the body has branched and become dike-like. Old shallow shaft and open cut workings are present in this area, and hand trenching by the Bureau of Mines has exposed cinnabar. Relationships of this mineral are not clear, but it represents mineralization associated with an andesite body which may or may not be a branch of the main body.

A map of the Bureau of Mines' trenches is shown as Figure 7 of R. I. 4065, and references to trench numbers in the application refer to the numbers shown on this map. The applicant proposes to cut bulldozer trenches southwest of trench No. 11 which would be in the area at the northwest end of the sill where the andesite crosscuts the strike of the sediments. This bulldozer trenching would appear to duplicate the Bureau of Mines' hand trenching, but in addition, applicant wants to "trench west of trenches 15 and 16 (which are hand trenches) towards andesite showing in main adit." This would indicate that he considers the hand trenching inadequate in that it explored only one of several possible finger-like extensions of the andesite. He also wants to extend 2 trenches (Nos. 12 and 13) at southeast end of the orebody which he considers to have been curtailed short of crosscutting the full width of the ore zone. He further proposes to "trench across mineralized zone up to 1/4 mile north of Bureau of Mines' trenches", evidently in a blind search for other ore bearing zones. The proposal to "trench northeast of trenches 10 and 11" is essentially a part of this more generalized proposal, although it is supported by the distribution of andesite in trench 10 which suggest that from the northwest end of the main sill body, dike-like fingers may extend off to the northeast as well as to the northwest.

In summary: the orebody already indicated by the Bureau of Mines' trenching is apparently too low grade to interest the applicant, but he proposes to investigate the fringe areas (beyond the delimited orebody) at both the northwest and southeast ends in the hope that a higher grade ore shoot will be found. He also proposes to trench in the area north of the previous trenching in the hope of finding a blind orebody parallel to the known one. I do

not believe that either of these proposals has enough chance of finding something better than the orebody already indicated to warrant expenditure of Government money in a ratio of 3:1.

GENERAL RECOMMENDATION

This application is for funds to buy and repair a D-6 Caterpillar with which trenching will be undertaken in several areas. As pointed out in the previous discussion, most of the areas have already been explored extensively and the mineral found to date has not been rich enough to interest the applicant. Only one area, at the north end of the lower Barometer orebody, has the merit of not having the known submarginal orebody limited by previous exploration, and the proposed exploration here is such a small part of the total proposal as to make the purchase of a caterpillar tractor for this one job unwarranted.

The whole area has a further disadvantage in that it is remote from a base of supplies, with consequent high costs, and in any foreseeable national military emergency would be of little strategic value. I therefore recommend that this application be denied.

Edwin T. McKnight

Edwin T. McKnight
Geologist

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

May 14, 1952

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Geologist

Form MF-103
(Revised June 1951)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Budget Bureau No. 42-R1035.1.

MF-103 Should Be Filed With General Technical Data Form MF-100

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

Not To Be Filled in by Applicant

Docket No. DMEA-2500
Metal or Mineral
Date Received 4-28-52
Amount $
Participation (Government %)

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
APR 28 1952

Name and address of applicant

Nick P. Mellick & George Willis

Sleetmute, Alaska

Date April 22, 1952

If you have already filed MF-100, give date filed None, type of assistance requested ,

DMA Docket Number (if available)

INSTRUCTIONS

Read Mineral Order 5, Regulations Governing Government Aid in Defense Projects, before completing this application. Submit four copies each, of the signed application form, General Technical Data Form MF-100, and answers to questions as specified, to Defense Minerals Administration, Department of the Interior, Washington 25, D. C., or to the nearest field executive office thereof, with your name and address on each sheet of the application and all accompanying papers. If you have previously filed MF-100, it is not necessary to file it again. However, you should indicate in space provided above the type of assistance previously applied for (loans, procurement contracts, etc.) and DMA Docket Number, if available. *When a question is inapplicable it should be so stated in the form.* Additional sheets should be attached in answering any questions or in supplying additional information. IF YOU CANNOT ANSWER A QUESTION, SO STATE.

1. (*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*) If you are not the owner of the property, submit a copy of the lease, purchase option, or other agreements under which you are authorized to operate the property with each copy of your application.

   (*c*) Give the legal description of the exact parcel, plot, or area upon which the exploration is to be conducted.

   NOTE: (1) 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 (*c*) 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.

   (2) If applicant is not the owner of the property or if there are any liens or encumbrances against the property, copy of agreements of claimants, lienors, encumbrances, and lessors subordinating their interests in the property to the interest of the Government under the Exploration Project Contract will be required for attachment to the Contract.

2. (*a*) What metals or minerals do you expect to find?

   (*b*) Furnish statement of the geologic features of your property, giving type of ore deposit and reasons for expecting to find commercial ore bodies. Illustrate with maps or sketches. If you have a geologic or engineering report, or assay maps showing width and grade, please send them with application, stating whether or not you wish to have them returned.

The information requested in questions 3, 4, 5, 6, 7, 8, and 9 below should be answered specifically and in detail, as this information will be attached to and incorporated as part of the Exploration Project Contract, if such contract is entered into with you by the Government.

ANSWER EACH QUESTION ON SEPARATE SHEETS OF PAPER AND SUBMIT A COPY OF EACH ANSWER FOR EACH COPY OF YOUR APPLICATION.

3. (*a*) Describe fully the proposed work and give the total cost of the project.

   (*b*) State the time required to start the project and to complete it.

4. Submit a map or sketch of the property involved showing a plan (and cross section, if needed) of the present mine workings and the *location of the proposed exploration work* as related to geologic features, such as contacts, veins, ore-bearing beds, etc.

5. Furnish an itemized list of existing facilities, buildings, installations, and fixtures with a statement of the cost of any necessary rehabilitation or repairs to put into useful and operable condition.

6. Furnish a detailed list of additional facilities, buildings, and fixtures to be purchased, installed, or erected by you, with the estimated cost of each item.

7. Furnish a detailed list of operating equipment, separated into items to be—

   (*a*) Rented

   (*b*) Purchased

   (*c*) Furnished by you

   with the rental, purchase price, or depreciation of each item, as the case may be, to be charged as a cost of the project.

8. Furnish an itemized schedule of labor, by numbers and classes (miners, muckers, etc.) and of supervisors by numbers and positions, with the maximum wages or salaries to be paid to each.

9. Furnish a detailed list with estimated cost of each item for materials, supplies, engineering, assaying, accounting, power, water, utilities, and any other items not provided for above.

10. (*a*) How much are you prepared to invest in the proposed project?

    (*b*) Is this amount sufficient to pay your part of the cost of the project, in accordance with the regulations on Government participation (Sec. 9 of MO–5)?

11. State any conditions or circumstances regarding the property not sufficiently brought out by the foregoing questions.

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.

Nick P. Mellick & George Willis
(Name of company)

By Nick P. Mellick
George Willis
(Signature of authorized official)

April 22, 1952
(Date)

Partners
(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.

U. S. GOVERNMENT PRINTING OFFICE 16—64067-2

NICK P. MELLICK & GEORGE WILLIS
Sleetmute, Alaska

1. (a) Barometer Group (4 Claims)
Alice & Bessie (2 Claims)
(Additional claims to be staked)

Facilities at Red Devil Mine are available.

(b) Ownership - Nick P. Mellick 50%
George Willis 50%

Claims staked by Willis in July, 1951 and 50% interest acquired by Mellick after staking.

(c) Barometer Group (4 Claims)
Alice & Bessie (2 Claims)
(Additional claims to be staked)

2. (a) Cinnabar and Antimony

(b) Geologic features of property, type of ore deposit, sketches, assay maps, etc., are contained in U. S. Bureau of Mines R. I. 4065

NICK P. MELLICK & GEORGE WILLIS
Sleetmute, Alaska

3. (a) Trenching on the Barometer Group along the projected strike of No. 1 and No. 2 ore bodies.

Trenching on Alice & Bessie claims to the Northeast of Trench 10 & 11, Trench to Southwest of Trench 11 across mineralized zone, Trench West of Trenches 15 & 16 towards andesite showing in main adit, Trench North Trenches 12 & 13; trench across mineralized zone up to 1/4 mile North of Bureau of Mines trenches.

Location of trenches will be determined by results obtained.

Total cost $20,000.00.

(b) Project can be started by June 15th and completed by November 1st.

NICK P. MELLICK & GEORGE WILLIS
Sleetmute, Alaska

4. See Fig No. 8 and Fig No. 7 in U. S. Bureau of Mines R. I. 4065

NICK P. MELLICK & GEORGE WILLIS
Sleetmute, Alaska

5. Facilities at Red Devil Mine can be used in connection with proposed work. Crew will be quartered at this property. Bunkhouse, mess house and equipment, blacksmith shop and repair shop are all in usable condition. Boats and outboard motors available; small tools also available at mine.

NICK P. MELLICK & GEORGE WILLIS
Sleetmute, Alaska

6. NONE.

NICK P. MELLICK & GEORGE WILLIS
Sleetmute, Alaska

7. (a) None.

(b) D-6 Caterpillar used two years on Julian Creek and now at that location; cost $6,000.00, plus $500.00 transportation to mine; Total cost $6,500.00.

(c) Small tools, boats and motors.

NICK P. MELLICK & GEORGE WILLIS
Sleetmute, Alaska

8. One supervisor, one caterpillar operator, one general labor, one cook; total of four employees, all to receive $2.00 per hour; 48-hour week, $450.00 per month, plus 8% Social Security, insurance, etc., $486.00 per month. Board will be charged at rate of $75.00 per month.

NICK P. MELLICK & GEORGE WILLIS
Sleetmute, Alaska

9. Supplies for cookhouse @ $4.50 per day per man; 120 days for four men total $2,160.00.

One set of tracks for D-6 and other repair parts - $2,000.00. Fuel, lubricating oil and greases and general upkeep $2.75 per hour; $132.00 per week, 4 months - $2,288.00.

NICK P. MELLICK & GEORGE WILLIS
Sleetmute, Alaska

10. (a) $5,000.00 to $6,000.00

(b) Yes.

NICK P. MELLICK & GEORGE WILLIS
Sleetmute, Alaska

11.	Purchase and place D-6 Caterpillar on site	$6,500.00
	Repairs and parts (major)	2,000.00
	Supplies for cookhouse	2,160.00
	Wages - 4 men @ $486.00 per Month, 4 Months	7,776.00
	Fuel, oil & grease and minor repairs	2,640.00
		$21,076.00
	Less Board deduction	1,200.00
		$19,876.00

Local labor is available for this project. Mr. Mellick will supervise the prospecting; Mr. Willis will operate the tractor; Sam Mellick will be utility man and Miss Mellick will be the cook. The low board cost was predicated on this labor arrangement.

EXPLORATION

Subject: DMEA-2500
Re: Exploration Loan
Barometer Group, Alice & Bessie
April 28, 1952

Mr. Nick P. Mellick
Sleetmute
Alaska

My dear Mr. Mellick:

This will acknowledge receipt of your application dated April 22, 1952 for a loan under the Defense Production Act of 1950.

Your application was assigned Docket Number DMEA-2500 and referred to the Rare and Miscellaneous Metals Division.

Kindly refer to DMEA-2500 in any future correspondence relating to your application.

Sincerely yours,

ROBERT E. ADAMS

Robert E. Adams
Administrative Officer

7862

DMEA-2500

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION
~~WASHINGTON 25, D.C.~~
P. O. Box 2990
Juneau, Alaska

April 25, 1952

Mr. Frank E. Johnson
Chairman, Operating Committee
Defense Minerals Exploration Administration
Department of the Interior
Washington 25, D. C.

Re: Nick Mellick and George Willis
Barometer, Alice and Bessie
Lode Claims
Exploration loan $20,000.00
Mercury

Dear Mr. Johnson:

In the absence of Mr. Lorain I am transmitting herewith 5 copies of an application from Nick P. Mellick and George Willis for an exploration loan on the Barometer, Alice and Bessie claims near the Red Devil mine in the Kuskokwim Valley. A small amount of mercury has been shipped from this property, and we should like to point out its proximity to the Red Devil mine, which has produced substantial amounts of mercury.

The Field Team believes enough information is available on this property to enable the Washington office of DMEA to reach a decision on the application. We will not plan to make a field examination, or to contact the applicant, unless the subject application is referred to us by Washington. We have retained a copy of the application for our files.

Sincerely yours,
Field Team, Region I

W. S. Twenhofel

W. S. Twenhofel, Alternate Executive Officer

cc: Lorain

Enclosures

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
Juneau
APR 28 1952

DMEA-2500

LOAN AGENCY
OF THE
RECONSTRUCTION FINANCE CORPORATION
Anchorage Field Office
P. O. Box 1855
Anchorage, Alaska

April 22, 1952

VIA AIR MAIL

Mr. S. H. Lorain, Regional Director
Region I
U. S. Bureau of Mines
P. O. Box 2990
Juneau, Alaska

Dear Mr. Lorain:

Mr. Mellick came to Anchorage and requested my assistance in compiling the information with respect to questions asked in DMA Form MF-103.

We note a question on Form MF-103 as to whether a Form MF-100 has been filed. Mr. Mellick stated that he had not filed this form and did not know whether it was necessary since the Bureau of Mines has all the information available and thought perhaps that was the reason you did not request Form MF-100.

The suggested plan for development was arrived at from Bureau of Mines R.I. 4065 and some personal knowledge of the property obtained in 1938 and 1940. We also note that Bob Thorne was on the property for the Bureau of Mines and I am sure that Mr. Mellick would appreciate any suggestions that Bob or anyone else in the Bureau of Mines might have to offer.

Sincerely yours,

Howard G. Wilcox

Howard G. Wilcox
Mining Engineer

HGW:ha

DMEA-2500

Anchorage, Alaska
April 22, 1952

Mr. S. H. Lorain, Regional Director
Region I
U. S. Bureau of Mines
P. O. Box 2990
Juneau, Alaska

Dear Mr. Lorain:

Enclosed herewith are six copies of DMA Form MF-103 completed and signed by myself and Mr. Willis.

We appreciate your sending these forms to us and should you need additional information, we will be glad to submit any further information that you deem necessary. Mr. Howard G. Wilcox, of the Reconstruction Finance Corporation in Anchorage, has helped us considerably in compiling this information.

Thanking you for your cooperation, I am

Sincerely yours,

Nick P. Mellick

Nick P. Mellick

Form MF-103
(Revised June 1951)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Budget Bureau No. 42-R1035.1.

MF-103 Should Be Filed With General Technical Data Form MF-100

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

Not To Be Filled in by Applicant

Docket No. DMEA-2500
Metal or Mineral
Date Received 4-28-52
Amount $
Participation (Government %)

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
APR 22 1952

Name and address of applicant

Nick P. Mellick & George Willis

Sleetmute, Alaska

Date April 22, 1952

If you have already filed MF-100, give date filed None, type of assistance requested ,

DMA Docket Number (if available)

INSTRUCTIONS

Read Mineral Order 5, Regulations Governing Government Aid in Defense Projects, before completing this application. Submit four copies each, of the signed application form, General Technical Data Form MF-100, and answers to questions as specified, to Defense Minerals Administration, Department of the Interior, Washington 25, D. C., or to the nearest field executive office thereof, with your name and address on each sheet of the application and all accompanying papers. If you have previously filed MF-100, it is not necessary to file it again. However, you should indicate in space provided above the type of assistance previously applied for (loans, procurement contracts, etc.) and DMA Docket Number, if available. *When a question is inapplicable it should be so stated in the form.* Additional sheets should be attached in answering any questions or in supplying additional information. IF YOU CANNOT ANSWER A QUESTION, SO STATE.

1. (*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*) If you are not the owner of the property, submit a copy of the lease, purchase option, or other agreements under which you are authorized to operate the property with each copy of your application.

   (*c*) Give the legal description of the exact parcel, plot, or area upon which the exploration is to be conducted.

   NOTE: (1) 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 (*c*) 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.

   (2) If applicant is not the owner of the property or if there are any liens or encumbrances against the property, copy of agreements of claimants, lienors, encumbrances, and lessors subordinating their interests in the property to the interest of the Government under the Exploration Project Contract will be required for attachment to the Contract.

2. (*a*) What metals or minerals do you expect to find?

   (*b*) Furnish statement of the geologic features of your property, giving type of ore deposit and reasons for expecting to find commercial ore bodies. Illustrate with maps or sketches. If you have a geologic or engineering report, or assay maps showing width and grade, please send them with application, stating whether or not you wish to have them returned.

The information requested in questions 3, 4, 5, 6, 7, 8, and 9 below should be answered specifically and in detail, as this information will be attached to and incorporated as part of the Exploration Project Contract, if such contract is entered into with you by the Government.

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3. (*a*) Describe fully the proposed work and give the total cost of the project.

   (*b*) State the time required to start the project and to complete it.

4. Submit a map or sketch of the property involved showing a plan (and cross section, if needed) of the present mine workings and the *location of the proposed exploration work* as related to geologic features, such as contacts, veins, ore-bearing beds, etc.

5. Furnish an itemized list of existing facilities, buildings, installations, and fixtures with a statement of the cost of any necessary rehabilitation or repairs to put into useful and operable condition.

6. Furnish a detailed list of additional facilities, buildings, and fixtures to be purchased, installed, or erected by you, with the estimated cost of each item.

7. Furnish a detailed list of operating equipment, separated into items to be—

   (*a*) Rented

   (*b*) Purchased

   (*c*) Furnished by you

   with the rental, purchase price, or depreciation of each item, as the case may be, to be charged as a cost of the project.

8. Furnish an itemized schedule of labor, by numbers and classes (miners, muckers, etc.) and of supervisors by numbers and positions, with the maximum wages or salaries to be paid to each.

9. Furnish a detailed list with estimated cost of each item for materials, supplies, engineering, assaying, accounting, power, water, utilities, and any other items not provided for above.

10. (*a*) How much are you prepared to invest in the proposed project?

    (*b*) Is this amount sufficient to pay your part of the cost of the project, in accordance with the regulations on Government participation (Sec. 9 of MO–5)?

11. State any conditions or circumstances regarding the property not sufficiently brought out by the foregoing questions.

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.

Nick P. Mellick & George Willis
(Name of company)

By Nick P. Mellick
George Willis
(Signature of authorized official)

April 22, 1952
(Date)

Partners
(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.

U. S. GOVERNMENT PRINTING OFFICE 16—64067-2

NICK P. MELLICK & GEORGE WILLIS
Sleetmute, Alaska

1. (a) Barometer Group (4 Claims)
Alice & Bessie (2 Claims)
(Additional claims to be staked)

Facilities at Red Devil Mine are available.

(b) Ownership - Nick P. Mellick 50%
George Willis 50%

Claims staked by Willis in July, 1951 and 50% interest acquired by Mellick after staking.

(c) Barometer Group (4 Claims)
Alice & Bessie (2 Claims)
(Additional claims to be staked)

2. (a) Cinnabar and Antimony

(b) Geologic features of property, type of ore deposit, sketches, assay maps, etc., are contained in U. S. Bureau of Mines R. I. 4065

NICK P. MELLICK & GEORGE WILLIS
Sleetmute, Alaska

3. (a) Trenching on the Barometer Group along the projected strike of No. 1 and No. 2 ore bodies.

Trenching on Alice & Bessie claims to the Northeast of Trench 10 & 11, Trench to Southwest of Trench 11 across mineralized zone, Trench West of Trenches 15 & 16 towards andesite showing in main adit, Trench North Trenches 12 & 13; trench across mineralized zone up to 1/4 mile North of Bureau of Mines trenches.

Location of trenches will be determined by results obtained.

Total cost $20,000.00.

(b) Project can be started by June 15th and completed by November 1st.

NICK P. MELLICK & GEORGE WILLIS
Sleetmute, Alaska

4. See Fig No. 8 and Fig No. 7 in U. S. Bureau of Mines R. I. 4065

NICK P. MELLICK & GEORGE WILLIS
Sleetmute, Alaska

5. Facilities at Red Devil Mine can be used in connection with proposed work. Crew will be quartered at this property. Bunkhouse, mess house and equipment, blacksmith shop and repair shop are all in usable condition. Boats and outboard motors available; small tools also available at mine.

NICK P. MELLICK & GEORGE WILLIS
Sleetmute, Alaska

6. NONE.

NICK P. MELLICK & GEORGE WILLIS
Sleetmute, Alaska

7. (a) None.

(b) D-6 Caterpillar used two years on Julian Creek and now at that location; cost $6,000.00, plus $500.00 transportation to mine; Total cost $6,500.00.

(c) Small tools, boats and motors.

NICK P. MELLICK & GEORGE WILLIS
Sleetmute, Alaska

8. One supervisor, one caterpillar operator, one general labor, one cook; total of four employees, all to receive $2.00 per hour; 48-hour week, $450.00 per month, plus 8% Social Security, insurance, etc., $486.00 per month. Board will be charged at rate of $75.00 per month.

NICK P. MELLICK & GEORGE WILLIS
Sleetmute, Alaska

9. Supplies for cookhouse @ $4.50 per day per man; 120 days for four men total $2,160.00.

One set of tracks for D-6 and other repair parts - $2,000.00. Fuel, lubricating oil and greases and general upkeep $2.75 per hour; $132.00 per week, 4 months - $2,288.00.

NICK P. MELLICK & GEORGE WILLIS
Sleetmute, Alaska

10. (a) $5,000.00 to $6,000.00

(b) Yes.

NICK P. MELLICK & GEORGE WILLIS
Sleetmute, Alaska

11.	Purchase and place D-6 Caterpillar on site	$6,500.00
	Repairs and parts (major)	2,000.00
	Supplies for cookhouse	2,160.00
	Wages - 4 men @ $486.00 per Month, 4 Months	7,776.00
	Fuel, oil & grease and minor repairs	2,640.00
		$21,076.00
	Less Board deduction	1,200.00
		$19,876.00

Local labor is available for this project. Mr. Mellick will supervise the prospecting; Mr. Willis will operate the tractor; Sam Mellick will be utility man and Miss Mellick will be the cook. The low board cost was predicated on this labor arrangement.

Form MF-103
(Revised June 1951)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Budget Bureau No. 42-R1035.1.

MF-103 Should Be Filed With General Technical Data Form MF-100

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

Not To Be Filled in by Applicant

Docket No. DMEA-2500
Metal or Mineral
Date Received 4-28-52
Amount $
Participation (Government %)

Name and address of applicant

Nick P. Mellick & George Willis
Sleetmute, Alaska

Date April 22, 1952

If you have already filed MF-100, give date filed None, type of assistance requested ,

DMA Docket Number (if available)

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5. Furnish an itemized list of existing facilities, buildings, installations, and fixtures with a statement of the cost of any necessary rehabilitation or repairs to put into useful and operable condition.

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Nick P. Mellick & George Willis
(Name of company)

By Nick P. Mellick
George Willis
(Signature of authorized official)

April 22, 1952
(Date)

Partners
(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.

U. S. GOVERNMENT PRINTING OFFICE 16—64067-2

NICK P. MELLICK & GEORGE WILLIS
Sleetmute, Alaska

1. (a) Barometer Group (4 Claims)
Alice & Bessie (2 Claims)
(Additional claims to be staked)

Facilities at Red Devil Mine are available.

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George Willis 50%

Claims staked by Willis in July, 1951 and 50% interest acquired by Mellick after staking.

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2. (a) Cinnabar and Antimony

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Sleetmute, Alaska

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Location of trenches will be determined by results obtained.

Total cost $20,000.00.

(b) Project can be started by June 15th and completed by November 1st.

NICK P. MELLICK & GEORGE WILLIS
Sleetmute, Alaska

4. See Fig No. 8 and Fig No. 7 in U. S. Bureau of Mines R. I. 4065

NICK F. MELLICK & GEORGE WILLIS
Sleetmute, Alaska

5. Facilities at Red Devil Mine can be used in connection with proposed work. Crew will be quartered at this property. Bunkhouse, mess house and equipment, blacksmith shop and repair shop are all in usable condition. Boats and outboard motors available; small tools also available at mine.

NICK P. MELLICK & GEORGE WILLIS
Sleetmute, Alaska

6. NONE.

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(Revised June 1951)

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DEFENSE MINERALS ADMINISTRATION

Budget Bureau No. 42-R1035.1.

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Name and address of applicant

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(Name of company)

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George Willis
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April 22, 1952
(Date)

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Sleetmute, Alaska

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8. One supervisor, one caterpillar operator, one general labor, one cook; total of four employees, all to receive $2.00 per hour; 48-hour week, $450.00 per month, plus 8% Social Security, insurance, etc., $486.00 per month. Board will be charged at rate of $75.00 per month.

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9. Supplies for cookhouse @ $4.50 per day per man; 120 days for four men total $2,160.00.

One set of tracks for D-6 and other repair parts - $2,000.00. Fuel, lubricating oil and greases and general upkeep $2.75 per hour; $132.00 per week, 4 months - $2,288.00.

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10. (a) $5,000.00 to $6,000.00

(b) Yes.

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Sleetmute, Alaska

11.	Purchase and place D-6 Caterpillar on site	$6,500.00
	Repairs and parts (major)	2,000.00
	Supplies for cookhouse	2,160.00
	Wages - 4 men @ $486.00 per Month, 4 Months	7,776.00
	Fuel, oil & grease and minor repairs	2,640.00
		$21,076.00
	Less Board deduction	1,200.00
		$19,876.00

Local labor is available for this project. Mr. Mellick will supervise the prospecting; Mr. Willis will operate the tractor; Sam Mellick will be utility man and Miss Mellick will be the cook. The low board cost was predicated on this labor arrangement.