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

JUL 1 1959

Mr. Leo W. Stewart, Manager
S & S Mining Company
1021 Northern Life Tower
Seattle 1, Washington

Re: Docket No. OME-6046 (Lead-Zinc)
S & S Mining Company
Sullivan & Stewart No. 1 Claim
Broadwater County, Montana

Dear Mr. Stewart:

Your application for aid in an exploration project and other information available to us in Washington concerning the above-mentioned property have been reviewed.

Careful study of all the information available to us indicates that the probability of disclosing significant ore reserves on your property is not sufficiently promising to justify Government participation in the proposed exploration. We regret to advise you that, under these circumstances, your application for exploration assistance is denied.

Sincerely yours,

Frank E. Johnson

Acting Director

WRGriswold/gla 7-9-59
Copy to: Director's Reading File
Operating Committee
Mr. Bishop, USBM
Mr. Kirkemo, USGS
OME Field Team, Region I (2) w/2 cys. each USGS memo 7/6/59 and USBM memo 6/17/59
Docket
Chron

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF THE SECRETARY
WASHINGTON 25, D. C.

June 17, 1959

Re: OME 6040; Zn-Pb; $10,000
S. and S. Mining Co.
Sullivan & Stewart No. 1 Claim
Broadwater, Montana

Memorandum

To: W. R. Griswold, Office of Mineral Exploration

From: Commodity Specialist, Branch of Base Metals

Subject: Review of Field Team recommendation of June 10, 1959 for denial of referenced application.

R. D. Sample, USGS, examined the property in company with Mr. T. J. Sullivan, partner in the company. The only development work at the property consists of an 80-foot adit which has been driven on an aplite sill which intrudes the Newland limestone. At places the sill is fractured and some of the fractures contain calcite, clay-like minerals and blebs of lead, zinc and iron sulfides. The mineralization is insignificant and nowhere is there evidence to suggest conditions which would warrant an extension of the adit.

I agree with the examiner and field team in recommending denial of the application.

O. M. Bishop

O. M. Bishop

cc: Division of Minerals
Mr. Killagnard
Mr. Lamb
Mr. Bishop
F I L E S

July 6, 1959

Re: Docket OME 6040 (Lead-Zinc)
S. and S. Mining Company
Sullivan and Stewart No. 1 Claim
Broadwater County, Montana

Memorandum

To: W. R. Griswold, Office of Minerals Exploration

From: Harold Kirkemo, U. S. Geological Survey

Subject: Review of examination report and Field Team recommendation on referenced application

The geologic possibility of making a significant discovery at this property is shown by the examining geologist to be very remote. The target proposed by the applicant holds no better promise of containing an ore body than does the barren adit examined by the geologist.

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

Harold Kirkemo

cc: OME (3)
O.M. Bishop
Director's reading
Branch reading
Chron. file
Docket file

HKirkemo/mm
G-MD-7-6-59

6040

EXTRA COPY
O. M. E.
RECEIVED JUN 15 1959
DATE | INITIALS | CODE

Rm. 157 Howard Street
Spokane 4, Washington

June 10, 1959

Memorandum

To: Chairman, Operating Committee, OME

From: OME Field Team, Region I

Subject: Docket No. OME-6040 (Lead-Zinc)
S. and S. Mining Company
Sullivan and Stewart No. 1 claim
Broadwater County, Montana

Enclosed are three copies of a memorandum report on the referenced application by R. D. Sample, Geologist, U. S. Geological Survey.

An aplite sill 5 to 7 feet thick follows minor folds in calcareous rocks of the Precambrian Belt series. The sill is greatly fractured and some of the fractures are filled with blebs of lead, zinc, and iron sulfides, but sulfide mineralization is sparse.

Sample concludes that the chance of making a significant discovery is poor and recommends that the application be denied. The Field Team concurs with Sample's conclusion and recommendation.

Wing G. Agnew, Acting Exec. Officer
U. S. Bureau of Mines

Donald H. MacLaren, Acting Member
U. S. Geological Survey

Enclosures

cc: USBM (2)
USGS(SRO)
Sample

Reviewed by
OME OPERATING COMMITTEE

(date)

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DATE	INITIALS	CODE

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

June 8, 1959

Memorandum

To: OME Field Team, Region I

From: R. D. Sample, Geologist, U. S. Geological Survey

Subject: Application examination report, Docket No. OME-6040 (Lead-Zinc), S. and S. Mining Company, Sullivan and Stewart No. 1 claim, Broadwater County, Montana

INTRODUCTION

In an application, dated April 13, 1959, S. and S. Mining Company, 1021 Northern Life Tower, Seattle 1, Washington, applied for Government aid to explore the Sullivan and Stewart No. 1 claim, Broadwater County, Montana, for lead and zinc minerals. The applicant proposes to extend the present adit (now about 80 feet in length, fig. 1) in an aplite sill "for a distance sufficient to either indicate that there will never be a change in mineralization or the finding of an ore body." He proposes to extend this adit by first running the floor on grade through an anticline in the sill and picking up the aplite on the other side of the anticline. This will require certain installations and machinery. He believes that for a total estimated cost of $10,000 he can find an ore body. The Government's participation would be 50 percent or $5,000.

The property is about 26 miles northeast of Townsend, Montana, and near the junction of Black Tail Creek with Confederate Gulch in sec. 20, T. 10 N., R. 3 E., Broadwater County, Montana. The claim is unpatented and was located October 18, 1954. Notice of location is filed in the County Courthouse at Townsend, Montana, in book 7, page 77.

The property was visited and examined by R. D. Sample on May 29, 1959. Mr. Theodore J. Sullivan, one of the interested partners, guided the examiner about the property and pointed out the pertinent features.

Reviewed by
OME OPERATING COMMITTEE

(date)

GEOLOGIC SUMMARY

The Confederate Gulch region is underlain by shaly, slaty, and calcareous rock of the Belt series of Precambrian age. Near the base of the series is the Newland limestone, a very impure limestone containing considerable amounts of magnesia and siliceous and argillaceous sediment. The thickness has been estimated at 4,500 feet.

The Sullivan and Stewart No. 1 adit follows an aplite sill between layers of the Newland limestone. The sill varies in thickness from 5 to 7 feet where exposed in the adit and follows the minor folds in the limestone. It is greatly fractured and some of the fractures have been re-cemented by calcite and claylike minerals. Occasionally, the fractures are filled with blebs of lead, zinc, and iron sulfides. However, a 2-foot chip sample taken at the face failed to disclose any lead or zinc mineralization. Copper sulfides are reported by the applicant but none were recognized at the time of examination. There is very little difference in appearance, texture, or mineralization of the aplite sill near the portal and at the face of the relatively short adit. There appears to be some bleaching at the surface exposure. There is no criteria for assuming the sill will become more mineralized as it continues farther underground.

In view of the weak mineralization shown in the sill from the tunnel portal to the present face and the absence of any known target area which may be more favorable for mineralization, it is recommended the application be denied.

Attachment 1

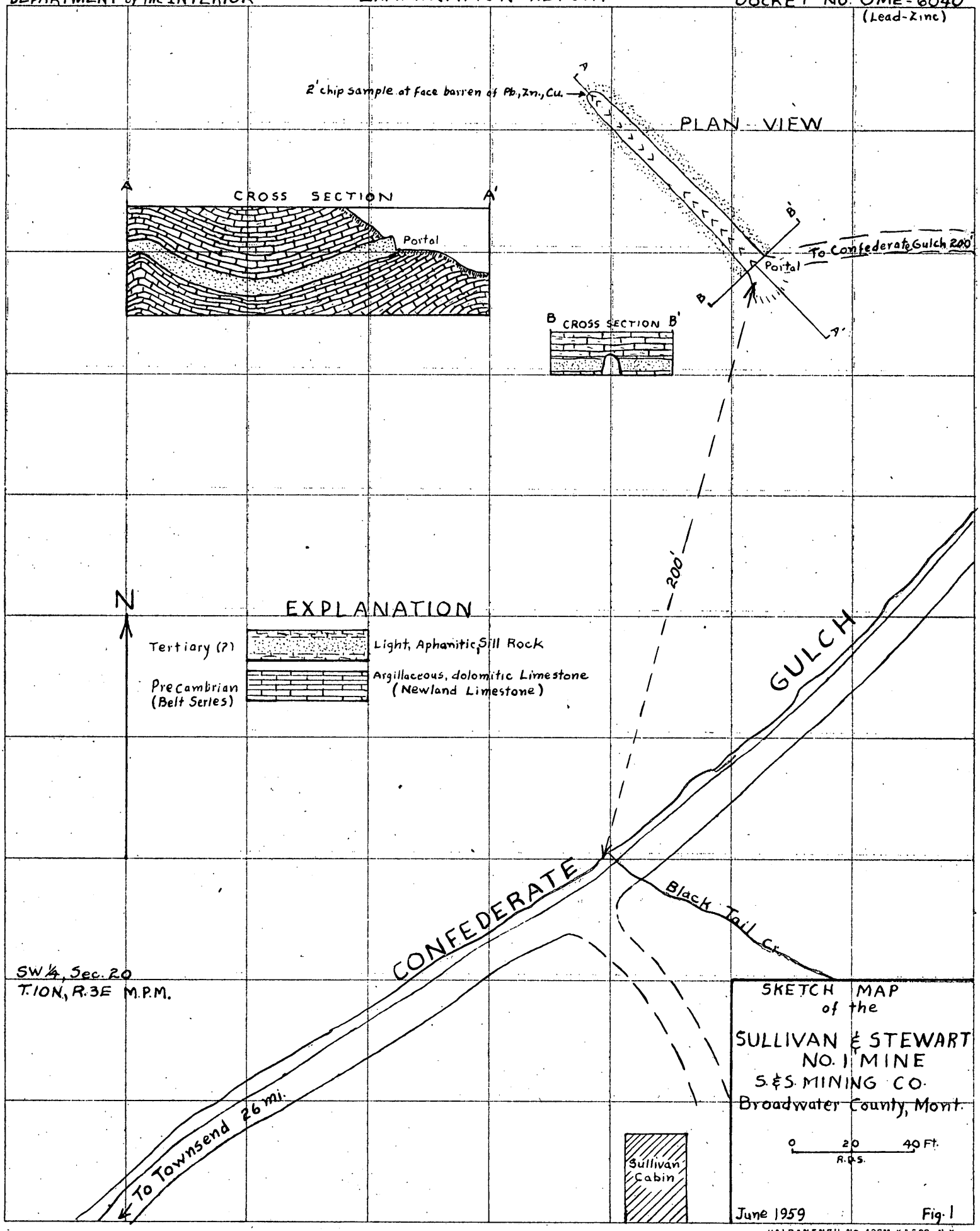
Distribution:
OME (3)
USBM (2)
USGS(SRO)
Docket
Sample

PREPARED FOR
OFFICE of MINERALS EXPLORATION

UNITED STATES
DEPARTMENT of the INTERIOR

EXAMINATION REPORT

DOCKET NO. OME-6040
(Lead-Zinc)



"ALBANENE" No. 195M K&E CO., N.Y.
REG. U.S. PAT. OFF.

EXTRA COPY
O. M. E.
RECEIVED JUN 15 1959

DATE	INITIALS	CODE

MAY 12 1959

Memorandum

To: Executive Officer, U.S. Field Team, Region I

From: Chairman, Operating Committee, OMS

Subject: Docket No. OMS-6040 (Lead-Zinc)
S & S Mining Company
Sullivan & Stewart No. 1 Claim
Broadwater County, Montana

The cited application is being referred to your office for consideration, a field examination of the property if warranted, and recommendations.

In the event that you should decide to report favorably upon the application, kindly advise the Applicant that we would require a recent financial statement of the partnership. Apparently such a financial statement was submitted to the banks, but we did not receive a copy of it. We would also require, of course, a map showing the mining claim and the location of the proposed work. However, you should, of course, caution the Applicant that such a request on your part by no means should be construed as an assurance that favorable action would be taken upon the application.

Copies of memoranda dated April 23 and 30, 1959, by S. K. Callaway, Bureau of Mines, and N. E. Nelson, Geological Survey, respectively, relating to the project are enclosed for your information. We are enclosing one copy of the application for the use of the Field Team.

George C. Selfridge

Enclosures

APPROVED:

(sgd.) G. W. Josephson
Member, Bureau of Mines

Thor H. Killsgaard
Member, Geological Survey

WRGriswold/er 5-7 & 8/59
Copy to: Docket
Dir Read File
Op. Committee
Mr. Bishop, U.BM
Mr. Killsgaard, USGS
Chron.

Mr. Kilsgaard

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

April 23, 1959

Re: CME 6040, Zn, Pb
$10,000
DBA S & S Mining Co.
Sullivan & Steward Claim
#1
Broadwater County, Montana

Memorandum

To: W. R. Griswold, Office of Mineral Exploration

From: Commodity Specialist, Branch of Base Metals

Subject: Application for financial assistance dated April 10, and received in Washington April 30, 1959

The application proposes a Government loan to extend a drift on a fractured and mineralized aplite-limestone contact. Justification is supported by considerations of structure, by known mineralization, and by proximity to other known mineralized areas. On the periphery of the Boulder batholith. Negative factors are narrowness of the mineralized fractures, weakness of mineralization, and confinement of the ore minerals to the fractured aplite.

I recommend referral of the application to the field.

H. M. Calloway

H. M. Calloway

April 30, 1959
Re: OME 6040
Theo. J. Sullivan &
Leo W. Stewart
(S & S Mining Co.)
Sullivan & Stewart No. 1 Claim
Broadwater County, Montana
Appl. Est. $10,000 - Lead-Zinc

Memorandum

To: W. R. Griswold, Office of Minerals Exploration

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

Subject: Review of application

The applicants request assistance in continuing a 60-foot adit to a suppositional ore body, in a fault that cuts an aplite sill in limestone. The greatest width of ore found to this time is 1 inch, but the applicants reason that somewhere ahead the aplite sill, the limestone which it intrudes and a dark diorite will meet and conditions will be favorable for the deposition of lead and zinc minerals with which, ordinarily, gold and silver are associated.

Judging from the letter of Irvine Bennett, the applicants are men of advanced age, who may be following a hopeless hunch. The information given does not justify a special trip and examination. However, since the prospect is within about 200 feet of a country road, the engineers and geologists who might travel No. 6 might keep the application in mind and if convenient have a look see. With that condition, referral of the application to the Field Team is recommended.

N. E. Nelson

cc: OME (3)
O.M. Bishop, 3620
Director's reading
Branch reading
Chron. file
Docket file
NENelson/mm
G-MD-4-30-59

6048

Se. 157 Howard Street
Spokane 4, Washington

April 14, 1959

Memorandum

To: Chairman, Operating Committee, OME

From: Executive Officer, OME Field Team Region I

Subject: New application (Lead-Zinc)
Theodore J. Sullivan and
Leo W. Stewart, co-partners
d/b/a/ S & S Mining Company
Sullivan & Stewart No. 1 claim
Broadwater County, Montana

Enclosed are the original and two copies of an application for OME assistance to explore for lead-zinc ore in Broadwater County, Montana.

The applicant proposes to extend an existing drift an unmentioned distance to explore along a contact between an anlite-diorite sill and limestone at an estimated cost of $10,000.

A. E. Weissenborn

cc: USBM (2)

EXTRA COPY
O. M. E.
RECEIVED APR 20 1959
DATE

April 9, 1959

Office of Minerals Exploration
Department of the Interior
South 157 Howard St.
Spokane 4, Washington

Gentlemen:

Enclosed herewith are four copies of the application of Theodore F. Sullivan and [illegible] Stewart, co-partners, Dba S & S Mining Co., [illegible].

If there is a late spring in Montana it may be that Mr. Sullivan will not be [illegible] property by May 15, 1959, but shortly thereafter.

Yours very truly,

[illegible] STEWART

MME Form 40
Dec. 1958

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION

Budget Bureau No. 42-R1368
Approval expires Dec. 31, 1963

APR 20 1959 O.M.E.

APPLICATION FOR FINANCIAL ASSISTANCE IN MINERALS EXPLORATION

Pursuant to Public Law 85-701 (72 Stat. 700; 30 U.S.C. 641)

NAME OF APPLICANT *(Full legal name and mailing address as they should appear on contract if one is executed.)*

Theodore J. Sullivan & Leo W. Stewart,
DBA S & S Mining Co.
1021 Northern Life Tower
Seattle 1, Washington

RECEIVED
APR 13 1959
U. S. G. S.
SPOKANE, WASH.

APPLICANT DO NOT USE THIS BLOCK

DOCKET NUMBER: 6040

DATE RECEIVED: 4-20-59

REGION: I

DIVISION CODE: 500

BUSINESS ORGANIZATION *(Check one)*

- INDIVIDUAL [ ]
- CORPORATION [ ]
- PARTNERSHIP [X]
- OTHER *(Specify)* [ ]

STATE IN WHICH FIRM IS ORGANIZED: Montana

LIST CORPORATE OFFICERS OR PARTNERS HERE, IF APPLICABLE

NAME	ADDRESS	TITLE
Theodore J. Sullivan	White Sulphur Springs Montana	Partner
Leo W. Stewart	1021 Northern Life Tower Seattle 1, Washington	Manager

MINERAL(S) FOR WHICH YOU WISH TO EXPLORE: Zinc and Lead

ESTIMATED COST OF PROJECT: $ 10,000.00

PROPERTY NAME	LOCATION COUNTY	STATE
Sullivan & Stewart No. 1	Broadwater	Montana

GENERAL INSTRUCTIONS

Before filling out this application, please read the *OME Regulations for Obtaining Federal Assistance in Financing Explorations for Mineral Reserves* (30 CFR Chap. III). 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 2, existing mine workings and geology in item 3, and the proposed exploration work in item 5. 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 3(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 Office of Minerals Exploration, Department of the Interior, Washington 25, D. C., or with the nearest OME 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, and that he would not ordinarily undertake the proposed exploration under current conditions and circumstances at his sole expense.

Apr 10 - 1959
DATED

S & S MINING CO.
Leo W. Stewart
BY *(Signature)*

Manager
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. Financial Eligibility:

(a) Submit evidence of efforts made within 90 days preceding the filing of this application to obtain credit from your bank of account and at least one other banking institution or other private source of credit. Such evidence shall include true copies of correspondence which show: (1) date of loan request, (2) amount and terms requested, (3) proposed use of loan funds, and (4) the replies from credit sources. If the loan was offered under terms which you consider unreasonable, state why you consider them so.

(b) List names and addresses of affiliated, parent, or controlling companies or organizations and state extent and nature of their interest.

(c) State how you propose to furnish your share of the exploration [redacted] cost.

2. Applicant's Rights in Land:

(a) State your interest in the land and mineral rights, whether owner, lessee, purchaser under contract, or other. If you are not the owner, submit one true copy of the lease, contract, or other document (with address of owner) under which you control the property. Describe all liens, mortgages, or other encumbrances on the land and state book and page number and official place where recorded.

(b) 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 adjacent land which you own or control. Describe any part of the land or workings which should not be subject to Government royalty and liens. If the land consists of unpatented claims, state book and page number for each recorded location notice, including amended locations, and official place where recorded. State all the names by which you know the property.

(c) For all land or mineral rights encumbered or not owned, submit five copies of Lien and Subordination Agreements on MME Form 52. If the agreements cannot be obtained, state reasons and provide copies of letters of refusal.

3. 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 land. Include existing mine workings and all production facilities.

(b) State your interest, if any, in operations described in (a).

(c) State, if 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, giving quantities and grades and sampling methods used. Support 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 have, indicating whether you require their return.

4. Accessibility of Property:

(a) To aid the OME representative who may examine the property, state name and address of person who will meet him; give directions for reaching the property; and describe accessibility of property and of any mine workings.

(b) Name the shipping and supply points and state the distances to the property.

5. Exploration Work:

(a) Describe fully the proposed exploration work giving individual footages and sizes of openings *for each item of work.* Use narrative, maps, plans, and sections as necessary. Show 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 *land boundaries* or to the closest identifiable corner.

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

(c) If an OME contract is executed, state how soon thereafter work would be started and finished. State your anticipated average daily or monthly rate of progress for each type of work.

6. Experience:

State your operating experience and background to conduct this exploration work and also that of the person who will supervise the work.

7. Estimate of Costs:

Furnish detailed estimates of the necessary costs *for each item of the work proposed in 5(a)* under the headings listed below with a total for each heading and the estimated total cost of the work. Costs for any work to be performed by an independent contractor should be listed separately under category (a) below. Costs for any work that is not to be performed by an independent contractor should be listed under categories (b) through (g).

(a) Independent contracts. State the total cost of any proposed independent contract for all or any part of the work, and the number of units and the unit cost for each type of work, such as per foot of drilling, per foot of drifting, per hour of bulldozer operations, or 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. The cost of supervision, engineering and geological services, outside consultants, and labor should be itemized by numbers and classes of employees; rates of wages, salaries or fees; and periods of employment. State whether these services are available.

(c) Operating materials and supplies. List items of material and supplies giving quantity and cost of each. 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 equipment and tools costing $50 or more per unit. Give specifications and indicate how each item is to be acquired—i.e., rented, purchased or provided by the applicant. If rented or purchased, state the estimated rental or purchase price. If furnished by the applicant, state condition and present fair market value.

(e) Initial rehabilitation and repairs. Describe the type and the cost of *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 in the exploration work.

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

(g) Miscellaneous. Describe the type and estimate the cost of repairs and maintenance of the operating equipment listed in 7(d). Do not repeat initial repairs listed in 7(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*—The Government will not contribute to costs incurred before the date of the contract, or to costs of or incident to: (1) acquiring, using, or possessing land and any existing improvements, facilities, buildings, installations, and appurtenances, or the depreciation and depletion thereof; (2) general overhead, corporate management, interest and taxes (other than payroll and sales taxes); (3) insurance (other than employees' liability insurance); and (4) damages to persons or property (other than authorized repair to or replacement of equipment or other property used in the work).]

INT.-DUP. SEC., WASH., D.C. 48740

1. Financial Eligibility:

(a) Sullivan and Stewart co-partnership has not sufficient funds to make proper exploration and development work, and it would not be now undertaken unless financial assistance is given by the United States.

(1) March 6, 1959
(2) $10,000.00 - payable out of ore as mined.
(3) Development work and prospecting.
(4) Assistance denied. Copies of correspondence attached and marked Exhibit A.

(b) No affiliations.

(c) Partnership share of funds to be contributed by furnishing necessary mining equipment on a rental basis, and labor as follows:

160 cu.ft. portable rotary type compressor,	per month	$250.00
Air leg with hammer,	" "	100.00
Air hose, sub tank, oiler, steel,	" "	45.00
Salaries - 3 men, 2 of them partners, six day week,	per day	20.00 each

2. Applicant's Rights in Land:

(a) Applicant original locator and sole owner, and the property unencumbered.

(b) One standard mining claim, 600 x 1500, Section 20, Township 10, Range 3 East M.P.M., Broadwater County, Montana, Baker Mining District, Recorded - Office of County Clerk and Recorder, Townsend, Montana. Last annual representation work recorded in Book 7, Annual Reports, Page 77.

The location is under one name, Sullivan & Stewart No. 1. There is Government land on three sides of said claim open to location. On the fourth side is a patented placer claim, very small in width, probably not more than 30 ft.

No other name was ever used for this mining claim except Sullivan & Stewart No. 1.

3. Physical Description:

(a) The Sullivan & Stewart No. 1 is an unpatented mining claim, developed by one prospecting adit approximately 60 ft. in length that followed a folded aplite sill. The sill is 5½ feet in thickness that intruded Newland limestone in three distinct beds. Although they are lying adjacent to one another with small seams of limestone coming and going between the sills.

The sill can be traced on the surface for a distance of 500 ft. and is dipping 30 degrees northeast. The sill at its highest point of discovery consists of the center of the three beds, the other two having been dragged by a cross fold. The development work to date consists mostly of the one adit with one cross drift. The sill for the first 30 ft. dips 30 degrees west while the bedding dips 30 degrees north. The aplite sill then suddenly turns upward at a 60 degree angle for a distance of 25 ft. to the top of the anticline and is now dipping again at the same angle. On the anticline of the fold a fault developed but only in the aplite which is now mineralized with lead and silver. This fault stringer in places has attained a width of 1" and has assayed as high as $6.00 in silver lead, the ratio being approximately 3 oz. silver to 1% lead. The last Government geological report on this district was 1932 under the title of Greater Helena Mining Area, Montana Bulletin 832, under the sub-title Belt Mountain Area.

The aplite that intruded the limestone was devoid of mineralization, but was later subjected to a series of sharp minor folds. The aplite was greatly fractured although the new limestone was not. The aplite was re-cemented by mineralizing solutions of very low temperature. Most all cleavages carry some mineralization, but in open spaces or larger fractures lead and zinc and silver, with some gold is invariably present, with minor amounts of copper. Both the anticline and syncline are more mineralized than the limbs. At present, however, the mineralization is in the fractures, which are carrying "blue limestone", a favorable gangue mineral for this Montana area, the aplite in spots becoming softer with quartzite forming in larger beds.

The present fault vein carrying lead and zinc and silver minerals appears to be more favorable than at any time since the beginning of the adit. There are blebs of iron, galina, copper, and pyrites through the mass of aplite. There has always been a trace of gold, and the first assay was 2/10 in gold.

(b) The interest of the co-partnership in the Sullivan & Stewart No. 1 is total.

(c) There has been no present production.

(d) There are no known reserves or probable reserves, as the claim in question has always been a prospect.

(e) In addition to the description given under 3(a) the geological formation is that of a bedded type deposit with a uniform width of 5½ ft. with thickening on both the syncline and anticline. The U.S. Bulletin 832 states that the area in question belongs to the York type Diorite granite instead of the Miller Hill diorite which is light. The Miller Hill area is approximately two miles from the present claim, and consists of a large area that has heretofore supplied most of the gold placered in Confederate, Cement, Montana, Johnny, and White Gulches. The interior of the mountain appears

to be dark diorite granite, as the same is now exposed on a large area of the top. The elevation of the present tunnel is 5500 ft. at the base of the mountain.

(f) The reason ore is expected is because the area in question is an outlayer of the Bolder Batholith, and the present aplite sill has intruded the dark diorite, which is the core of the mountain, as well as the Newland limestone. The adjacent area has produced some thirty or forty million dollars in placer gold. The present indication would be that this ore would be lead silver with minor amounts of gold. The fractures have become more mineralized and at the present are of greater width and continuous, and show clearly that the ore was formed by replacement. The full geological formation and cross faults have not yet been determined, but the aplite is changing, and now contains more quartz and more mineralization. There is a possibility that a contact may be made in a short distance between the dark diorite aplite and limestone, which would be an area of greater fracture and a possibility of greater replacement.

The nearest mine is the Miller in Montana Gulch, and the gold ore has been found where the light granite has intruded the limestone or shale.

The sampling has been done mostly by the writer, and tested chemically on the ground for quality of analysis. The aplite contained more carbonites than would be ordinarily expected. The final assays were made mostly by the Goodall Brothers, 46 South Main St., Helena, Montana. The assays were made for gold and silver, as it was thought the lead content would be worthless. The first assay, October 7, 1954, was gold 2/10, silver 7.6 oz., value $13.84. This assay was probably higher because of the oxidation, and the ore having an opportunity to travel down the sill. The present ore shows no oxidation, and carries more lead and zinc on a percentage of 3 oz. of silver to 1% of lead. Last assays were taken the fall of 1957. Two in number.

(g) No reports.

4. Accessibility of Property:

(a) The Sullivan & Stewart No. 1 is located not less than 200 ft. off the county road running from Townsend, Montana to White Sulphur Springs, via Confederate Gulch, and is accessible by automobile ten months of the year. The road being maintained by Broadwater County. Theodore J. Sullivan lives at the property, which is located at the junction of Black Tail and Confederate Gulch and marked by U. S. Forest Reserve signs. Mr. Sullivan would be available after May 10, 1959, to show property to any representative.

(b) Nearest shipping point is Townsend, Montana. Nearest supply point 40 miles to Helena, Montana.

The smelter is located at East Helena, Montana, and could be reached from the property via Canyon Ferry, at approximately 30 miles, ore could be trucked direct to smelter. Any supplies not found at Helena, Montana, could be obtained at Butte, Montana, 60 miles therefrom.

5. Exploration Work:

(a) The proposed exploration work is the extension of the present tunnel, 5 x 7, for a distance sufficient to either indicate that there will never be any change in mineralization or the finding of an ore body. Some development work will be required since the prospecting tunnel was driven on the sill and followed its contours no matter where they went. In order to exploit and prospect with proper machinery it is necessary to drift through the limestone fold and reach the aplite sill on the far side, a distance of approximately 30 ft.

The claim is open on three sides, and is bounded on the fourth by a patented placer claim. This claim is approximately 30 ft. wide, and within the confines of the claim there is no doubt that the owner of the placer claim would be entitled to any ore discovered therein. The aplite sill on the plunge does cross this particular claim. The mining at the present, however, is directly away from this boundary.

The limestone contacts are very firm and solid rock, and the tunnel to the present has required no timbering.

(b) Access road already built.

(c) If loan is made work will commence immediately thereafter. It would be difficult at this time to estimate the rate of progress, but it would seem that three men could make three rounds a week, and when better organized possibly four.

6. Experience:

Theodore J. Sullivan is a practical mining man who has followed the work of a miner most of his lifetime, both hand drilling and machine operation.

Leo W. Stewart has followed mining as a student for thirty years, having been in the field with mining engineers and geologists for periods of from one day to one month; has surface prospected every year for at least two to three weeks since 1946; has worked as a practical miner for a period of two to three weeks a year for the past ten years; holds B.A. and LLB. degrees, and has studied geology since graduation through Bateman & McKinstry, as well as all geological bulletins on the State of Montana, beginning with the first

reports; has studied the geological formations; and has been in most of the mines in the Helena area in Jefferson County.

7. Estimate of Costs:

(a) It is a difficult matter to estimate the costs of this particular type of prospecting as to the difficulty of access in having followed the seam along the contours of the fold. A mining engineer, Robert I. Bennett, with practical experience in Jefferson County, Montana, has estimated with Mr. Stewart, approximately $30.00 per ft. This sum would probably be divided equally between labor and materials. Dynamite at Helena, Montana, is $17.50 a case. The rock is hard and difficult to blast. Fuse and caps are standard prices, and with large orders these supplies could be delivered at the mine. Regular gasoline in Montana is 36¢ per gallon.

(b) It is expected that the writer and his partner, Theodore J. Sullivan, would both render service in the development of the mine and hiring an additional man.

There is sufficient housing in the vicinity of the mine for all parties to live there. The salaries would be approximately $20.00 per day. The employment would be on a six day week basis, with probably over a nine months operation each year. There are plenty of miners available in Montana and the vicinity of the property in question.

(c) Equipment will consist of one compressor, not less than a 125, together with the mining tools sufficient to operate one jack hammer. All water and all other things necessary for mining are available.

All mining equipment rented from the Montana Mining Equipment Co. at Helena has included the repair of the same, and there should be very little maintenance on the part of the co-partnership outside of the rental costs.

All mining equipment necessary, with the exception of the compressor, may be supplied by the co-partners rather than rented.

C O P Y

Following request sent to

Seattle First National Bank
Metropolitan Branch
4th Avenue
Seattle 1, Washington

March 6, 1959

and

Irvine Bennett Company
2800 Thorndyke Avenue
Seattle 99, Washington

Gentlemen:

Re: Loan to Sullivan and Stewart Partnership for Mining

Request is hereby made by Sullivan and Stewart, Co-partnership, for a loan for exploration and development of the Sullivan and Stewart prospect in the Baker Mining District, Broadwater County, Townsend, Montana.

LOAN: A loan of $10,000.00 is requested and necessary for the work anticipated, which would be secured by the mining property and assets set forth in the financial statement. Re-payment of the loan would be made from smelter returns of ore shipped and which would be all money and profits realized from the sale of ore over and above the usual necessary expense of mining, cartage and smelting, until all sums advanced including interest have been re-paid.

It would be expected that all ore that could be profitably mined and shipped would be as soon as possible after discovery and continue until the loan was fully paid. All ore would be shipped to the American Smelting and Refinery Company at East Helena, Montana. Arrangements could be made that payments on the loan could be made direct by the smelter.

PROPOSED USE OF THE LOAN: The loan would be used for extending the present tunnel along the mineralized apelite sill until an ore body was encountered of sufficient value to mine at a profit. There would be some expense to correct the present grade of the tunnel so that machinery can be used to best advantage. The funds would also be used for payment for expert geological advice, proper assays and other incidental expense necessary for exploration and development, with due regard to good modern methods but as economical as possible.

RESPECTFULLY SUBMITTED

LEO W. STEWART

C O P Y

METROPOLITAN BRANCH
SEATTLE FIRST NATIONAL BANK
Seattle 1, Washington

Allen G. Larson
Assistant Cashier

March 13, 1959

Mr. Leo W. Stewart
1021 Northern Life Tower
Seattle, Washington

Dear Mr. Stewart:

We have received the financial statement and application for credit to the partnership of Sullivan and Stewart in the amount of $10,000, for the exploration and development of the Sullivan and Stewart prospect in the Baker Mining District, Broadwater County, Townsend, Montana.

On the basis of the financial statement presented and the terms of the request, we wish to inform you that at this time we must decline your application for credit for this purpose.

Very truly yours,

ALLEN G. LARSON
Assistant Cashier

AGL:q

C O P Y

C O P Y

IRVINE BENNETT COMPANY
2800 Thorndyke Avenue
Seattle 99, Washington

March 20, 1959

Sullivan and Stewart
1021 Northern Life Tower
Seattle 1, Washington

Gentlemen:

We have been considering your request for a $10,000.00 loan for the development of those mining claims located in Broadwater County near Townsend, Montana.

You, of course, knew when you asked this office to secure the money for you that we would have to deal with private investors. We were intrigued with the idea, because we liked it, and have been urging one or more of our clients to participate in this $10,000.00 loan.

After all these days of discussion and investigation, we regret to inform you that due to the advanced age of the clients involved, they have decided that they do not wish to participate in this particular mining loan.

We are sorry that we were not successful in securing this money for you,

Very truly yours,

IRVINE BENNETT
Irvine Bennett

IB/mm

C O P Y