MME Form 9
Rev. Nov. 65

UNITED STATES
DEPARTMENT OF THE INTERIOR
Geological Survey

OFFICIAL DOCKET FILE

Contract No. _____ Docket No. 6686

Application
- [ ] Denied
- [x] Withdrawn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
- [ ] Application and Attachments

Right Side

- [ ] Project Summary (final)
- [ ] Work Completed Analysis (final)
- All other material filed in chronological order including the following reports if checked:
- [ ] Field Team Semiannual 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
- [ ] On-site Exam. Report (Tab)
- [ ] Settlement Sheets
- [ ] Drill Logs

Additional Folders:

Left Side

Folders No. _____: Reports
- [ ] Analysis of Semiannual Inspection Reports
- [ ] Project Summary (Interim) by MME Engineers

Right Side

- [ ] Field Team Semiannual 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

72195-65

ASSIGNMENT OF MINING CLAIMS

THE STATE OF Texas)
COUNTY OF Wichita) KNOW ALL MEN BY THESE PRESENTS THAT:

WHEREAS, Heretofore a mining claim or claims owned by R. T. Keeling and wife Ruby Keeling, and Bessie M. Young, widow as owners on the lode, vein or deposit, for the mining of gold, silver, copper, lead, mercury, uranium, molybendum, vanadium and other valuable minerals situated in Township 28 North and 29 North, Range 14 East, in the Red River Mining District, Taos County, State of New Mexico, to-wit:

> The Silver Tip group of Calims Nos. 1 to 48, both inclusive, running approximately a mile and a half up Pioneer Canyon, and one and one half miles along Red River and adjoining the Town of Red River, New Mexico.

WHEREAS, The original locators and the undersigned leasees have complied with the requirements of Section 2324 of the Revised Statutes of the United States and all other Federal and State Laws and all customs and regulations of said mining district, and each of the above claims is now owned by the undersigned, insofar as the same is hereby transferred and assigned, and all location and assessment work required by said laws and regulations have been performed, and said claim or claims are now in good standing:

NOW, THEREFORE, In consideration of Ten or more Dollars in hand paid the sufficiency and the receipt of which is hereby acknowledged, the undersigned R. L. Gohlke, Maynard Stephens, and Harry M. Feather as Assignors, does hereby sell, assign, convey, transfer and set over, all of the right, title and interest of the original locators and present oweners in and to the above described claims, together with all machinery, equipment, and other improvements for mining purposes on the lands covered by said claims unto National Minerals Corporation, successors and assigns.

IN WITNESS WHEREOF, this instrument is executed this 2ND day of January, 1968.

R. L. Gohlke
R. L. Gohlke

Maynard Stephens
Maynard Stephens

Harry M. Feather
Harry M. Feather

THE STATE OF TEXAS
COUNTY OF WICHITA

On this 2ND day of January, 1968, before me personally appeared R. L. Gohlke, Maynard Stephens, and Harry M. Feather, to me personally known to be the persons described in and who executed the foregoing instrument and acknowledged that they exectued the same as their free act and deed.

Witness my hand and official seal this the day and year written above.

Commission expires: 6-1-69

Jeanne Kaiser
Notary Public

Recorded 3/11/68

IN REPLY REFER TO:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
FEDERAL CENTER, DENVER, COLORADO 80225

Office of Minerals Exploration
Building 53 Room 203

January 15, 1968

OFFICIAL COPY
O. M. E.
RECEIVED
JAN 17 1968

INITIALS	CODE

Memorandum

To: Chief, Office of Minerals Exploration

From: William L. Emerick

Subject: National Minerals Corporation
Silver Tip Claims
Taos, New Mexico

Transmitted herewith is one copy of an application for financial assistance in minerals exploration on the above-stated property.

The following was noted:

1. They do not enclose their letter of request for loans from the two banks.

2. Applicant doesn't state whether they are going to core drill or whether they plan to contract it. In any event, no drill bids are included.

3. It is assumed that the applicant is opening up caved tunnels at own expense. If not, no estimate of costs given. ? See cost est.

4. Should be more specific in how many core holes, and how much footage in each core hole.

J. S. G. approved

William L. Emerick

William L. Emerick,
Office of Minerals Exploration

Enclosures

Office of Minerals Exploration
Building 53 Room 203

January 15, 1968

Mr. Harry M. Feather, Treasurer
National Minerals Corporation
2900 - 10th Street
Wichita Falls, Texas 76309

Subject: National Minerals Corporation (Silver)
Silver Tip Claims
Taos, New Mexico

Dear Mr. Feather:

Your application for financial assistance in minerals exploration on the above-stated subject was received in this office today, and one copy has been forwarded to Washington. You will hear from them in the near future.

Your attention is invited to our current address:

Mr. J. William Hasler, Field Officer, Region III
Office of Minerals Exploration--U. S. Geological Survey
Denver Federal Center--Building 53 -- Room 203
Denver, Colorado 80225

Our telephone No. is: Area Code (303)-- 233-3611, extensions 8598 or 8731.

Sincerely yours,

William L. Emerick,
Office of Minerals Exploration

cc: Chief, OME
National Minerals Corporation application
OME chron
Mr. Emerick

the Feathers

2900 Tenth
Wichita Falls, Texas

OME Region III
RECEIVED
JAN 15 1968
Denver, Colorado

January 12, 1968

Office of Minerals Exploration
U. S. Geological Survey
Bldg. 25
Denver Federal Center
Denver, Colo. 80225

Gentlemen:

We enclose in duplicate an application for a D. M. E. A. loan for the purpose of exploring for Silver on our claims in Taos County, New Mexico.

We would appreciate your advising us if you need any additional information.

Thanking you for your consideration, I am,

Yours very truly,

Harry M. Feather

Harry M. Feather
Treasurer
National Minerals Corp.
2900 - 10th St.
Wichita Falls, Texas
76309

MME Form 40
Jan. 65

Budget Bureau No. 42-R1508
Approval expires Dec. 31, 1968

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

OME Region III RECEIVED JAN 15 1968 Denver, Colorado

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.)*	APPLICANT DO NOT USE THIS BLOCK
National Minerals Corp. 1407 Tilden Wichita Falls, Texas 76309	DOCKET NUMBER: 6686 DATE RECEIVED: 1-17-68 REGION: III DIVISION CODE:

BUSINESS ORGANIZATION *(Check one)*

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

STATE IN WHICH FIRM IS ORGANIZED: New Mexico

LIST CORPORATE OFFICERS OR PARTNERS HERE, IF APPLICABLE

NAME	ADDRESS	TITLE
Maynard Stephens	1407 Tilden Wichita Falls, Texas	President
R. L. Gohlke	P.O. Box 147 Wichita Falls, Texas	Vice-Pres.
H. M. Feather	2900 - 10th St. Wichita Falls, Texas	Tres.

MINERAL(S) FOR WHICH YOU WISH TO EXPLORE: Silver

ESTIMATED COST OF PROJECT: $ 49,625.00

PROPERTY NAME	LOCATION COUNTY	LOCATION STATE
Silver Tip Calims	Taos	New Mexico

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 two 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, D.C., with the nearest OME Field Office.~~ Washington, D. C., 20242, 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.

Jan. 12, 1968
DATED

Harry M. Feather
BY *(Signature)*

Treasurer
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 cost of the exploration work.

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 open[illegible] *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

OME Region III
RECEIVED
JAN 15 1968
Denver, Colorado

SILVER TIP PROSPECT

by

NATIONAL MINERALS CORPORATION

ORIGINAL
COPY
O. M. E.
RECEIVED
JAN 17 1968
INITIALS CODE

C O N T E N T S

I Financial Eligibility

II Legal Description of Property

III Interest in property

IV Pertinent Geology

V Reasons for expecting ore

VI Statement of proposed exploration

VII Cost estimates for required work

VIII Detailed estimate of costs

IX Maps showing boundaries, workings, proposed work

I

FINANCIAL ELIGIBILITY

Enclosed are letters from two banks stating that funds are not available.

City National Bank

WICHITA FALLS, TEXAS

HAROLD JONES
PRESIDENT

January 10, 1968

Kickapoo Mining Company
1407 Tilden
Wichita Falls, Texas

ATTENTION: Mr. M. M. Stephens

Re: Pioneer Canyon Prospect

Gentlemen:

You have requested a loan from this bank in the amount of $45,000 to be paid from ore production with interest at 6 percent over a period of five years.

Reynolds?

This is to advise that this bank does not engage in this type of financing and we must therefore decline your request.

Very truly yours,

Harold Jones

Harold Jones

HJ:ss

THE FIRST-WICHITA NATIONAL BANK

WICHITA FALLS, TEXAS

GRADY D. ATCHLEY
Senior Vice President

January 10, 1968

Kickapoo Mining Company
1407 Tilden Street
Wichita Falls, Texas

Attn: Maynard M. Stephens

Dear Mr. Stephens:

This has reference to your application for a loan in the amount of $45,000 for a period of five years, payable monthly for the purpose of developing mining properties in Pioneer Canyon near Red River, New Mexico, owned by your company.

Bryant?

I regret to inform you that this loan does not meet the requirements of our loan policies and it is therefore necessary for us to decline the application.

Yours very truly,

G. D. Atchley
Senior Vice President

GDA/bn

II

LEGAL DESCRIPTION OF PROPERTY

This property consists of 33 claims. These claims are recorded in the County of Taos, New Mexico. They were filed over 35 years ago and the Proof of Labor has been filed each year since then.

These claims are recorded as follows:

Silver Tip #1, #2, #3, #4, #5, #6, #7, #8. #9, #11, #12, #14, #15, #17, #18, #19, #20, #26, #27, #29, #33, #34, #35, #38, & #39.

Tip Top
Lucky Strike #1 & #2
Reward
Key Hole
Blue Ribbon
Midway #1, & #2

The claims are located 1 mile South of the Town of Red River, New Mexico.

They are approximately 4 miles East of the Moly Copporation Mine.

Key Hole, Harry Hebert, May 28, 1916, filed July 10, 1928, Book F-14, Page 273-274 Taos County, New Mexico

Silver Tip No. 1, Charles F. W. Young, August 6, 1924, filed October 17, 1924 Book F-12, Page 432 Mining Records, Taos County, New Mexico.

Silver Tip No. 2, Charles F. W. Young, August 6, filed October 17, 1924, Book F-12, page 433, Taos County New Mexico.

Silver Tip No. 3, Charles F. W. Young, August 6, 1924, filed October 17,1924 Book F-12, page 434, Mining Records, Taos County, New Mexico

Silver Tip No. 4, Charles F. W. Young, August 6, 1924, filed October 17,1924 F-12, page 435 Mining Records, Taos Count, New Mexico

Silver Tip No. 5, L. M. Smith & Chas. F. W. Young, August 15, 1924, filed September 27, 1924, Book F-12, page 427, Mining Records, Taos County, New Mexico.

Silver Tip No. 6, L. M. Smith & Chas. F. W. Young, August 15, 1924, filed September 27, 1924, Book F-12, page 428, Mining Records, Taos County, New Mexico.

Silver Tip No. 7, L. M. Smith & Chas. F. W. Young, August 15, 1924, filed September 27, 1924, Book F-12, page 429, Mining Records, Taos County, New Mexico.

Silver Tip No. 8, Charles F. W. Young, August 15, 1924, filed October 17, 1924, Book F-12, page 436, Mining Records, Taos County, New Mexico.

Silver Tip No. 9, L. M. Smith & Chas. F. W. Young, August 15, 1924, filed September 27, 1924, Book F-12, page 430, Mining Records, Taos County, New Mexico.

Silver Tip No. 10, L.M. Smith and Chas. F. W. Young, August 15,1924, filed September 27, 1924, Book F-12, page 431, Mining Records, Taos County, New Mexico.

Silver Tip No. 11, Charles F. W. Young, L.M. Smith, & J. P. Haley, June 7, 1926, filed October 27, 1926, Book F-12, Page 465 Mining records, Taos County, New Mexico

Silver Tip No. 12, Charles F. W. Young, L.M. Smith, & J. P. Haley, June 9, 1926, filed October 27, 1926, Book F-12, Page 466, Mining records, Taos County, New Mexico

Silver Tip No. 13, Charles F. W. Young, L.M. Smith & J. P. Haley, June 10,1926, filed October 27, 1926, Book F-12, Page 467, Mining records, Taos County, New Mexico

Silver Tip No. 14, Charles F. W. Young, L.M. Smith & J. P. Haley, June 11, 1926, filed October 27,1926, Book F-12, Page 468, Mining records, Taos County, New Mexico

Silver Tip No. 15, Charles F. W. Young, L.M. Smith & J. P. Haley, July 8, 1926, filed October 27, 1926, Book F-12, Page 469, Mining Records, Taos County, New Mexico

Silver Tip No. 16, Charles F. W. Young, L.M. Smith & J. P. Haley, July 17,1926, filed October 27, 1926, Book F-12, Page 478, Mining Records, Taos County, New Mexico

Silver Tip No. 17, Chas. F. W. Young, L.M. Smith & J. P. Haley, April 12, 1927, filed February 21, 1928, F-12, Page 537 Mining records, Taos County, New Mexico.

Silver Tip No. 18, Charles F. W. Young, L.M. Smith & J. P. Haley, August 2, 1927, filed November 8, 1927, Book F-12, Page 537, Mining Records, Taos County, New Mexico

Silver Tip No. 19, Charles F. W. Young, L.M. Smith & J. P. Haley, August 2, 1927, filed November 8, 1927, Book F-12, Page 486, Mining records, Taos County, New Mexico.

Silver Tip No. 20, Charles F. W. Young, L.M. Smith & J. P. Haley, August 2, 1927, filed November 8, 1927, Book F-12, Page 487, Mining records, Taos County, New Mexico.

Silver Tip No. 21, Charles F. W. Young, L.M. Smith & J. P. Haley, August 2, 1927, filed November 8, 1927, Book F-12, Page 488, Mining records, Taos County, New Mexico.

Silver Tip No. 22, Charles F. W. Young, L.M. Smith & J. P. Haley, August 2, 1927, filed November 8, 1927, Book F-12, Page 489, Mining records, Taos County, New Mexico.

Silver Tip No. 23, Charles F. W. Young, L.M. Smith & J. P. Haley, August 2, 1927, filed November 8, 1927, Book F-12, Page 520, Mining records, Taos County, New Mexico.

Silver Tip No. 24, Charles F. W. Young, L.M. Smith & J. P. Haley, August 2, 1927, filed November 8, 1927, Book F-12, Page 521, Mining records, Taos County, New Mexico.

Silver Tip No. 25, Charles F. W. Young, L.M. Smith & J. P. Haley, August 2, 1927, filed November 8, 1927, Book F-12, Page 522, Mining records, Taos County, New Mexico.

Silver Tip No. 26, Chas. F. W. Young., L. M. Smith & J. P. Haley, September 17, 1927, Filed February 21, 1928, Book F-12, Page 538, Mining Records, Taos County, New Mexico

Silver Tip No. 27, Chas. F. W. Young, L. M. Smith & J. P. Haley, September 17, 1927, Filed February 21, 1928, Book F-14, Page 539, Mining records, Taos County, New Mexico

Silver Tip No. 28, Chas. F. W. Young, L. M. Smith & J. P. Haley, September 17, 1927, Filed February 21, 1928, Book F-12, Page 540, Mining records, Taos, County, New Mexico.

Silver Tip No. 29, Chas. F. W. Young., L. M. Smith & J. P. Haley, October 20, 1927, Filed February 21, 1928, Book F-12, Page 541, Mining records, Taos County, New Mexico.

Silver Tip No. 30, Chas. F. W. Young, L. M. Smith & J. P. Haley, October 20, 1927, Filed February 21, 1928, Book F-12, Page 542 Mining records, Taos County, New Mexico.

Silver Tip No. 33, Chas. F. W. Young, L. M. Smith & J. P. Haley, May 28, 1928, Filed August 3, 1928, Book F-12, Page 549, Mining records, Taos County, New Mexico.

Silver Tip No. 34, Chas. F. W. Young, L. M. Smith & J. P. Haley, July 1, 1928, Filed August 3, 1928, Book F-12, Page 548, Mining records, Taos County, New Mexico.

Silver Tip No. 35, Chas. F. W. Young, L. M. Smith & J. P. Haley, July 1, 1928, Filed August 3, 1928, Book F-12, Page 547, Mining records, Taos County, New Mexico.

Silver Tip No. 36, Chas. F. W. Young., L. M. Smith & J. P. Haley, July 8, 1929, Filed October 8, 1929, Book F-12, Page 599, Mining records, Taos County, New Mexico.

Silver Tip No. 37, Chas. F. W. Young., L. M. Smith & J. P. Haley, July 8, 1929, Filed October 8, 1929, Book F-12, Page 600, Mining records, Taos County, New Mexico.

Silver Tip No. 31, Chas. F. W. Young, L. M. Smith & J. P. Haley, July 11, 1929, Filed October 8, 1929, Book F-12, Page 598, Mining records, Taos County, New Mexico.

Deldosia No. 3, R. Wesley Nichols, July 2, 1949, Filed , September 19, 1949, Book F-29, Page 65-66, Taos County, New Mexico.

Silver Tip No. 32, Bessie Mae Young, R. T. Kooling, February 6, 1957, Filed February 6, 1957, Book S-33, Page 51 Mining claim records, Taos County, New Mexico.

Silver Tip No. 38, Chas. F. W. Young, L. M. Smith & J. P. Haley, July 11, 1929, Filed October 6, 1929, Book F-12, Page 601 Mining Records, Taos County, New Mexico.

Silver Tip No. 39, Chas. F. W. Young, L. M. Smith & J. P. Haley, July 11, 1929, Filed October 6, 1929, Book F-12, Page 602, Mining Records, Taos County, New Mexico.

SilverTip No. 40, Chas. F. W. Young, L. M. Smith & J. P. Haley, July 11, 1929, Filed October 6, 1929, Book F-12, Page 603, Mining Records, Taos County, New Mexico.

Silver Tip No. 41, Chas. F. W. Young, Mrs. L. M.Smith & J. P. Haley, October 2, 1929, Filed December 2, 1929, Book F-12, Page 611, Taos County, New Mexico.

Silver Tip No, 42, Chas. F. W. Young, Mrs. L. M. Smith, & J. P. Haley, October 2, 1929, Filed December 2, 1929, Book F-12, Page 612, Taos county, New Mexico.

Silver Tip No. 43, Chas. F. W. Young, Mrs. L.M. Smith, & J. P. Haley, October 2, 1929, Filed December 2, 1929, Book F-12, Page 613, Taos County New Mexico.

Silver Tip No. 44, Chas. F. W. Young, Mrs. L.M. Smith & J. P. Haley, October 2, 1929, Filed December 2, 1929, Book F-12, Page 614, Taos County, New Mexico

Silver Tip No. 45, Chas. F. W. Young, Mrs. L.M.Smith, & J. P. Haley, October 2, 1929, Filed December 2, 1929, Book F-12, Page 615, Taos County, New Mexico.

Silver Tip No. 47, Chas. F.W. Young, L.M. Smith & J. P. Haley, July 3, 1931, Filed September 25, 1931, Book F-14, Page 420 Mining Records, Taos County, New Mexico.

Silver Tip No. 48, Chas. F. W. Young, L.M.Smith & J.P. Haley, July 3, 1931, Filed September 25, 1931, Book F-28, Page 25 Mining records, Taos County, New Mexico,

Silver Tip No. 49, Chas. F. W. Young, L.M. Smith & J.P. Haley, July 7,1931, Filed September 25, 1931, Book F-28, Page 24, Mining records, Taos county, New Mexico.

Midway, Harry W. Moberg & Oscar C. Moberg, July 15, 1937, Filed October 6, 1937, Book F-28, Page 144, Taos County, New Mexico

Tip Top, Harry W. Moberg & Oscar C. Moberg, July 15, 1937, Filed October 6, 1937, Book F-28, Page 143, Taos County, New Mexico

Koy Hole, Harry W. Moberg & Oscar C. Moberg, July 15, 1937, Filed October 6, 1937, Book F-28, Page 145, Taos County, New Mexico

Anderson No. 1, R. T. Kuling (Keeling), July 1, 1947, Filed July 1, 1947, Book F-15, Page 586-587, Taos County, New Mexico

Anderson No. 2, R. T. Keeling, July 1, 1947, Filed July 1, 1947, Book F-15, Page 587, Mining records, Taos County, New Mexico

Crow No. 1, J. P. Holder, July 1, 1947, Filed July 1, 1947, Book F-15, Page 585-586, Mining claim records, Taos County, New Mexico

Crow No. 2, J. P. Holder, July 1, 1947, Filed July 1, 1947, Book F-15, Page 586, Mining claim records, Taos County, New Mexico

Crow No. 3, J. P. Holder, June 15, 1948, Filed June 28, 1948, Book F-15, Page 627, Taos County, New Mexico

Doldosia No. 1, R. Wesley Nichols, July 2, 1949, Filed September 10, 1949, Book F-29, Page 65-66, Taos County, New Mexico.

Doldosia No. 2, R. Wesley Nichols, July 2, 1949, Filed September 10, 1949, Book F029, Page 65-55, Taos County, New Mexico.

III

INTEREST IN PROPERTY

We enclose a copy of our lease on these claims. This is a 99 year lease carrying a 3% Royalty.

MINERAL LEASE

THIS AGREEMENT made this 28th day of April, 1963, between R. T. Keeling

Mr. R. T. Keeling and wife Ruby Keeling

Bessie M. Young, widow

of Leona, Texas, herein called lessor (whether one or more), and R. L. Gohlke, Maynard Stephens, and Harry M. Feather, lessee:

1. Lessor in consideration of one Dollar ($1.00) in hand paid, receipt of which is hereby acknowledged, and of the royalties herein provided and of the agreements of the lease herein contained, hereby grants, leases and lets exclusively unto lessee for the purpose of investigating, exploring, prospecting, drilling, mining, minerals and surface, timber and water rights, storage facilities, buildings, pipe lines, power and telephone lines, and other things thereof to produce, save, take care of, treat, process, store, and transport said minerals and other products therefrom, and housing and otherwise caring for its employees, the following described land in Taos County, New Mexico, to-wit:

> Silver Tip group of claims Nos. 1 to 48, both inclusive, running approximately a mile and one half up Pioneer Canyon, and one and one half mile along Red River and adjoining the town of Red River New Mexico.

2. Notwithstanding and particular description, it is neverless the intention of the lessor to include within this lease, and he does hereby lease, not only the land so described but also any and all other land owned and claimed by lessor in this area.

3. Subject to the other provisions herein contained, this lease shall remain in force for a term of ninety nine (99) years from this date and as long there after as minerals and other products are produced from said land.

4. The lessor reserves a 3% royalty on all minerals or other products produced, delivered to custom mill or smelter, the mill or smelter schedule value per dry ton of each lot of ore, exclusive of any development or exploration allowances or payments, and reasonable trucking charges, the cost of railroad freight and treatment, assaying or special sampling charges incident to mill and smelter settlement.

5. All payments of royalty herein provided for, less credits, if any, shall be made by the lessee monthly by the 25th day of each month for all minerals shipped during the preceeding month and paid for prior to the first day of the current month.

6. Should it develop that the lessors are actually the owners of less than one hundred (100) per cent interest in the said mining claims as represented, or any part thereof, then and in that event the royalties to be paid to the lessors shall be reduced in the proportion that the interest owned by the lessors in said mining claims [illegible]

7. The rights of either party hereunder may be assigned in whole or part and the provisions hereof shall extend to the heirs, executors, administrators, successors, and assigns, but no change or division in ownership of the land or royalties, however accomplished shall operate to enlarge the obligations or diminish the rights of the lessee.

8. Lessor hereby warrants and agrees to defend title to said land, and agrees that the lessee, at its option, may discharge any tax, mortgage, or other lien upon said land, and in the event lessee does so, it shall be subrogated to such lien with the right to enforce same and apply royalties accruing hereunder toward satisfying same.

9. Lessee, its successors and assigns, shall have the right at any time to surrender this lease, in whole or in part, to lessor or his heirs or assigns by notifying them sixty (60) days prior to the federal assessment work yearly deadline.

IN WITNESS WHEREOF, we sign the day and year first above written.

R T Kelsing
Ruby Kelsing
Bessie M. Young

THE STATE OF TEXAS

COUNTY OF

On this 9 day of May 1963, before me personally appeared M. J. Cullen and [illegible] to me personally known to be the persons described in and who executed the foregoing instrument and acknowledged that they executed the same as their free act and deed.

Witness my hand and official seal this the day and year last above written.

Commission Expires: [illegible]

Notary Public

R. S. SHEPHERD
Notary Public

THE STATE OF TEXAS

COUNTY OF

On this 8 day of May 1963, before me personally appeared Bessie M. Young and _____ to me personally known to be the persons described in and who executed the foregoing instrument and acknowledged that they executed the same as their free act and deed.

Witness my hand and official seal this the day and year last above written.

Commission expires:

John L. Johnson
Notary Public

IV

PERTINENT GEOLOGY

We enclose part of a report published by the State of New Mexico.

Circular 18
Geology and Ore Deposits of Red River and
Twining Dist., Taos County, New Mexico
A Preliminary Report
by Charles E. Park Jr., and Philip McKinley

terrace along parts of the river is probably reworked outwash material from the glaciers. The present Red River is entrenched from 10 to 30 feet into these gravel deposits.

GEOLOGY

Only a short description of the rocks is included in this report as the microscopic examinations are not completed.

Metamorphic rocks

Pre-Cambrian rocks. -- Rocks of pre-Cambrian age crop out along the southern and eastern limits of the area. They consist of coarse hornblende gneiss, quartzite, amphibolite, and quartz mica schist. The trend of the foliation and compositional layering of these metamorphic rocks averages about N. 70° E., but ranges between N. 45° E. and N. 85° E. The dip of the foliation is usually steeper than 60 degrees, though in a few outcrops it is nearly horizontal.

A granite, probably of pre-Cambrian age, has intruded these older rocks and has been considerably metamorphosed and recrystallized. Locally it is gneissic and is spotted with salmon-colored orthoclase and white albite. A contact phase of granite with feldspar and quartz predominating fills cracks that cut the foliation, and locally replaces the schist or gneiss, making it difficult to distinguish the contact rock from the granite.

Hornblende gneiss trends about N. 30° E. across the southern part of the area from Frazer Mountain to a point near the Ditch Cabin. This gneiss is roughly foliated, and contains hornblende or biotite, as well as altered feldspar with muscovite or chlorite flakes commonly scattered throughout.

Much of the weathered gneiss shows small nodules, about 3 mm. in diameter, that are thought to be quartz or one of the metamorphic minerals.

Large outcrops of pre-Cambrian schist are found in the southern part of the area. The schist essentially contains the same minerals as the gneiss, namely hornblende with some feldspar, mica, and quartz.

Dark greenish amphibolite is abundant in the pre-Cambrian rock, occurring interbedded with the schist and gneiss. The rock is granular and consists of hornblende with some feldspar and quartz.

Quartzite crops out on Bitter Creek and on the headwaters of Bobcat Creek along with the gneiss. The quartzite occurs in massive layers, is colorless to dark pink, and contains flakes of muscovite.

In the vicinity of Gold Hill are sedimentary and igneous rocks of unknown age that have been highly folded and metamorphosed to chlorite schists, talc schists, quartz mica schists, and metamorphic gabbros. A few limestone lenses are associated with the schists and apparently grade into them. The foliation of these rocks is approximately parallel to that in the pre-Cambrian metamorphics.

Sedimentary rocks

Paleozoic rocks. -- Sedimentary rocks of Pennsylvanian age occur in the southeastern part of the region. They consist of bedded fossiliferous limestones, sandstones, and layers of grit or arkosic conglomerate. These rocks appear to be faulted against the pre-Cambrian rocks.

Rocks similar to the Paleozoic sediments appear near the mouth of Placer Creek, south of Bear Creek, in scattered outcrops on Goose Creek, and in small bodies in the granodiorite on Mallette and Bitter Creeks.

These strata contain a few questionable organic remains, and consist of thin-bedded limestone, dolomite, and quartz conglomerate. The beds are closely associated with the metamorphic rocks and in places may be folded in with the older rocks. Conglomerate on Bitter Creek contains pre-Cambrian fragments near its base and indicates an unconformity with the older rocks. Strikes of the beds range from N. 10° W. to N. 50° E., and dips are rather gentle, ranging from 10° to 40°.

Tertiary gravels. -- A high-level gravel forms the tops of many of the flat ridges at altitudes of 9,500 to 10,500 feet in the Red River and Twining districts. The gravel principally contains well-rounded boulders, cobbles, and pebbles of pre-Cambrian quartzites and schists, but pebbles and cobbles of Tertiary andesite are present. The gravel is thought to be of late Tertiary age.

The high-level gravels are described by Ellis, 7/ who studied them around the town of Red River and concluded that they represented till deposited by a glacier lobe which extended westward from a Moreno Valley glacier. Ray and Smith 8/ examined the Moreno Valley and decided that there was no evidence of a large glacier having occupied the valley.

Additional mapping shows that the gravels extend farther to the south and east than was previously realized, and could hardly have been deposited from a Moreno Valley glacier.

7/ Ellis, R. W., op. cit.

8/ Ray, L. L., and Smith, J. F., Jr., Geology of the Moreno Valley, N. Mex.: Geol. Soc. America Bull., vol. 52, no. 2, pp. 177-210, February 1941.

Valley alluvium. -- Recent alluvium is confined to the valley floors, but the mapping includes both talus slopes adjacent to the valleys and glacier debris in the upper parts of the streams.

Igneous rocks

Pre-Cambrian granite. -- Pinkish granite, which consists essentially of pink and white feldspar and quartz with small amounts of biotite or hornblende, intrudes the pre-Cambrian metamorphic rocks. Much of the granite is gneissic with an elongation of the dark minerals. Alteration of the biotite to chlorite is common, but the feldspars are usually fairly fresh. A contact zone around the edges of the granite is a mile or more wide. Additional mapping to the west, south, and east is necessary before the extent of the granite mass is known exactly.

Pegmatite. -- Pegmatites that occur in the pre-Cambrian rocks may be related to the granite. These pegmatites contain pink orthoclase, a white feldspar, quartz, and muscovite. In general, they are small and irregular and probably have no commercial importance.

Green tuff. -- Rocks in this formation include a greenish to whitish tuff, an altered fine-grained diorite or andesite, and a gray andesite. These rock types can be mapped separately in some areas, but appear to grade into each other. The diorite and green tuff are chloritized and altered, but the gray andesite is relatively fresh and is probably the youngest. The gray andesite locally appears to grade into typical volcanic breccia.

The country rock of upper Bitter Creek is mainly green tuff, and older rocks were not recognized, though possibly some have been included.

Granodiorite. -- Granodiorite occurs around the town of Red River and extends for several miles west, north, and northeast of the town. Within this area only scattered outcrops of the invaded rocks, metamorphic rocks, Paleozoic sediments, and green tuff are recognized. The granodiorite contains pinkish orthoclase (?) and white plagioclase, possibly oligoclase, with small quartz crystals scattered throughout. The only dark mineral present is biotite which occurs as small well-developed phenocrysts, varying from about 2 to 5 percent. In places the rock is nearly all quartz and feldspar and is similar to the soda granite found at the Questa molybdenum mine.

Monzonite. -- A rock similar to the granodiorite, but as a rule containing more dark minerals, occurs throughout the district and has been mapped as monzonite. It occurs in small bodies as dikes, sills, or irregular plugs. A dike swarm south of Red River town trends about N. 30° E., but north and east of the town the trend swings to N. 20° W. In the field it was difficult to distinguish between the granodiorite and the monzonite, and actually the monzonite dikes may be a variation of the granodiorite intrusive. Intrusion of the two rocks probably occurred about the same period, although good examples of the granodiorite cut by monzonite dikes were seen. The monzonite cuts most of the rock formations in the districts.

Minerals occurring in the monzonite are orthoclase, plagioclase, biotite, and hornblende.

Monzonite porphyry. -- Long, narrow dikes of monzonite porphyry crop out in the northern part of the districts. These dikes cut the

metamorphic rocks and the granodiorite. One of the most impressive outcrops is about one mile up Placer Creek, and trends about N. 20° E. for more than 1½ miles to the slope just south of Red River town. North of the town is a badly altered dike that may be a continuation of the same porphyry, though this is uncertain. Several similar dikes occur in the region; a prominent one crosses the switchbacks on Red River Pass and extends across the lower part of Bobcat Creek. Rhyolite porphyry dikes that crop out in and near the granodiorite are possibly related to the monzonite porphyry as the phenocrysts are the same. The lighter color of the rhyolite porphyries is generally caused by alteration and leaching.

Minerals in the monzonite porphyry are orthoclase, quartz, and albite (?). Orthoclase occurs in crystals from 1 to 2 inches long, and small white crystals believed to be albite are characteristic. Quartz is in phenocrysts up to three-fourths of an inch in diameter. The quartz crystals are somewhat rounded, while the orthoclase and albite phenocrysts have sharp outlines. Small crystals of biotite and hornblende are seen in the fine-grained groundmass.

Rhyolite. -- A large body of rhyolite lies south and east of Relica Hill (Fig. 2). This rhyolite is probably an intrusive plug, although the contacts are in general obscure and there is no direct evidence other than its shape, a high rounded dome, to support such a conclusion. At Table Rock, to the west of the main mass, the contact between the rhyolite and the metamorphic rocks is a breccia. On a fresh surface the rhyolite has a white, sugary appearance and resembles quartzite. Small quartz and feldspar crystals are best seen on weathered surfaces.

In the northern part of the area the green tuff and granodiorite have been intruded by many dikes and bodies of rhyolite.

Volcanic breccia. -- Several different rock units are included in the volcanic breccia, but few of these units can be recognized throughout the district. A fine-grained purplish to reddish tuff containing numerous white inclusions is the lowest unit. Above this is a coarser-grained tuff which is usually greenish and contains small fragments of andesite. With these two basal tuffs are dense flows of purple hornblende andesite and gray andesite that grade upward into coarse purple breccia. This breccia is best seen on lower Goose Creek and in the nearby valley of the Red River. It is of pyroclastic origin and contains boulders and fragments as large as 3 feet in diameter. Nearly horizontal flows of dense glassy andesite top many of the ridges and are included in the breccia.

Only the tuff appears to be intruded by monzonite and monzonite porphyry dikes. The coarse breccia and andesite flows are not cut by the monzonite or the granodiorite; north of Goose Creek the breccia formation appears to rest on an older surface of monzonite.

Basalt dikes. -- Basalt dikes are found along the eastern border of the district, and occasionally elsewhere. They are dark and fine-grained with only a few phenocrysts large enough to be seen. They are common in areas of pre-Cambrian rocks. Those in the Tertiary volcanics are fresh and are probably the latest intrusive in the district.

Structure

The limited extent of the area examined during the field work makes it impractical to draw conclusions on the regional geology and

structure of the Sangre de Cristo Mountains. Publications numbers 1, 3, 4, 12, 13, 14, and 19 in the bibliography deal with the general geology and regional structure of the nearby Rocky Mountain area.

In this area compressional forces appear to be responsible for the major geologic structure. Several important fault zones were recognized, two of which are normal type, between younger rocks on the downthrown side and older rocks on the upthrown side. These normal fault zones contain numerous slivers, some of which are hundreds of feet wide and a mile or more long. They are possibly curved breaks around the borders of the downthrown Tertiary volcanic area.

Small faults and shear zones are abundant. They strike in almost any direction, though the majority trend between N. 30° E. and N. 50° E. Silicified veins, along which some movement has occurred, fall into two groups; one group trends between N. 10° W. and N. 10° E., and the other trends between N. 65° E. and S. 70° E.

The trend of the monzonite dikes is about N. 30° E. south of Red River town, but changes to N. 20° W. north and east of Red River. Their position and alignment suggest that the dike swarms are intruded along tension fractures developed on a large anticline.

Metamorphism has greatly obliterated original structures in the pre-Cambrian, though such structures appear in the metamorphic rocks near Gold Hill. The compositional layering, bedding where known, and schistosity in these metamorphic rocks trend in general N. 70° E. and are usually inclined about 60 degrees or more. In Long Canyon and the Gold Hill areas, the metamorphic rocks are compressed into tight isoclinal folds.

Folding in the younger rocks is difficult to interpret without further mapping. Paleozoic (?) sediments in the northern part of the area strike generally north, dip 25° E. along the eastern border and from 20° to 30° W. on the western boundary. This suggests that an open fold crosses the area with its axis striking approximately north.

Attitudes in the volcanic breccia are uncertain because of the massive nature of the deposit. The few dips within the volcanic breccia are of little value as they were probably formed on steep slopes or are due to slumping.

ORE DEPOSITS

General Statement

Mining in the Red River and Twining districts began around 1869 with prospecting for both placer and lode gold. From this period until the early 1900's the region was swarming with prospectors; most of the favorable areas were staked and worked extensively for gold and copper. Lead-silver prospects were described by early writers, but these deposits were of little consequence.

Several high-grade gold pockets were mined, but no large deposits were found. A combination of low-grade ore, ground-water flooding, and land disputes with the Sangre de Cristo Grant in the late 1800's forced many of the prospectors to abandon their workings. Since the turn of the century, little mining has been done, though efforts were made to operate the Independence, Caribel, Memphis, and Black Copper mines. As most of the workings are inaccessible, little first-hand underground

information was obtained. No mines are operating in the district at the present time, except the Questa molybdenum mine, which lies west of the area mapped.

Ore minerals are associated with quartz veins and shear zones in the metamorphic rocks, with silicified breccia zones in the Tertiary rocks, and with contact metamorphic deposits west of the mapped area.

Rock alteration

The area west of Pioneer and Bitter Creeks is underlain largely by intensively altered granodiorite and the border zones of this intrusive. The altered rocks continue westward beyond the mapped area and include the country rock of the Questa molybdenum mine and other prospects further to the west. The area is conspicuously marked by many large precipitous slides which are highly colored and are immediately noticed upon entering the region. During heavy rains these slides frequently wash across the roads and deposit muddy debris.

The colors of the altered rocks are predominantly light brown and creamy, though red, dark brown, and white rocks are present. The material consists essentially of sericite and fine-grained silica and, where unweathered, much of it is spotted with many tiny pyrite crystals. The alteration products have not been studied microscopically and it seems likely that clay minerals and other alteration products, such as alunite, may well be present. Numerous small stringers of quartz are widely scattered and many contain small amounts of pyrite, chalcopyrite, molybdenite, and fluorite.

The extensive alteration, which strongly resembles the alteration zones around many well known mining districts, is indicative of extensive hydrothermal activity. This evidence, coupled with the very widespread, though generally weak mineralization, furnishes the hopes for the districts in the future. It is always possible that orebodies of considerable size and value may be found in an area where hydrothermal activity is so extensive.

Deposits associated with metamorphic rocks

Deposits south of Gold Hill contain magnetite and specularite interbedded with quartzite, but the bodies are small and of little value.

Massive quartz veins and pegmatites believed to be related to the pre-Cambrian granite cut the metamorphics. They contain tourmaline, epidote, and pyrite, galena, chalcopyrite, and malachite in small quantities.

Quartz veins near Table Rock on the West Fork of the Red River are on the western contact of the rhyolite plug. A little galena, which carries about 18 ounces of silver per ton, 9/ occurs in the fractured quartz and a few copper stains are present.

Copper minerals are found in a large shear zone which trends N. 80° E. from the old Frazer camp at Twining across Bull of the Woods Mountain. Minerals recognized are bornite, chalcopyrite, chalcocite, malachite, and azurite.

9/ Assay by R. A. Matuszeski of the New Mexico Bureau of Mines and Mineral Resources.

Deposits in Tertiary rocks

In the northern part of the area the rocks are predominantly Tertiary volcanics and the ore deposits occur in quartz veins and fracture zones. Gold is the chief metal of the deposits, however, copper was sought in a few properties near Red River town. The ores are in pockets and are disseminated with pyrite throughout the fracture zones and country rock. Molybdenite and galena are found in small amounts in several prospects; at the Questa mine molybdenite is the ore mineral.

Contact metamorphic deposits

Contact metamorphic deposits occur west of the area mapped along the lower parts of the Rio Hondo, in the canyon east of the mouth of Columbine Creek, and north of Cabresto Creek. The deposits are in metamorphic rocks near granodiorite or granite. An interesting deposit of this type is the Hornet on Cabresto Creek. This deposit lies between quartzite and a granodiorite sill (?) where a zone of calcite, epidote, and garnet, with galena and sphalerite crops out. B. J. B. molybdenum, Horseshoe, and Nickel Plate are other promising prospects in the contact metamorphic zone.

Ore minerals

The following minerals were recognized during the field examination.

Mineral	Composition
Graphite	C
Gold	Au
Silver	Ag
Molybdenite	MoS_2

Mineral	Composition
Galena	PbS, often contains disseminated silver
Chalcocite	Cu_2S
Sphalerite	ZnS
Bornite	Cu_5FeS_4
Chalcopyrite	$CuFeS_2$
Pyrite	FeS_2, may contain gold
Hematite	Fe_2O_3
Fluorite	CaF_2
Magnetite	$FeO \cdot Fe_2O_3$
Malachite	$CuCO_3 \cdot Cu(OH)_2$
Azurite	$2CuCO_3 \cdot Cu(OH)_2$
Huebnerite	$MnWO_4$

Gangue minerals

Mineral	Composition
Calcite	$CaCO_3$
Chlorite	$H_8(Mg,Fe)_5Al_2Si_3O_{18}$
Epidote	$HCa_2(Al,Fe)_3Si_3O_{13}$
Garnet, almandite (?)	$Fe_3Al_2(SiO_4)_3$
grossularite (?)	$Ca_3Al_2(SiO_4)_3$
Limonite	$2Fe_2O_3 \cdot 3H_2O$
Quartz	SiO_2
Sericite	$H_2KAl_3(SiO_4)_3$
Tourmaline	$H_9Al_3(B \cdot OH)_2Si_4O_{19}$ Also H may be replaced by alkalies or Mg, Fe, Ca

PRODUCTION

Most of the prospecting in the Red River and Twining areas was done during the heyday of the mining around Elizabethtown, and any gold recovered was probably absorbed in the much larger production of the Elizabethtown district. A small amount of gold was obtained from the placer diggings on Placer Creek, and possibly a little from other workings. Some copper was also recovered from the old Frazer copper mine at Twining, though the amount is not known. In any case, the production has been very small.

ECONOMIC POSSIBILITIES

The fact that the Red River and Twining areas have been extensively prospected and have had several unsuccessful mining enterprises is a deterrent to development in the districts. The extensive hydrothermal alteration and the widespread mineralization are, however, encouraging signs. Most of the early-day prospecting was for gold in deposits related to the Tertiary rocks, especially to the monzonite. These deposits are lenticular or in small pockets and the chances of finding a large body of gold are unlikely.

Future prospecting in the districts possibly should be directed toward the discovery of fluorite, huebnerite, molybdenite, galena, and other minerals likely to have been passed over by the early gold seekers. The most favorable area for possible development of base metal deposits appears to be the contact zones around the granodiorite. No detailed examination has yet been made of this contact, although several favorable surface outcrops were seen along it.

PROSPECTS AND MINES

Mines and prospects in the southern part of area

Frazer copper prospect. -- The Frazer copper prospect is on a steep slope east of the old town of Twining, New Mexico. A description of the property is given by Lindgren, 10/ who visited the mine in 1904 (?). Considerable development work has been done, but the mine was not profitable and was closed about 1904. During 1942-1943 parts of the old workings were cleaned out by T. B. Everhart, but little additional work was done. All of the rather extensive tunnels and shafts are now caved, and it was impossible to examine the deposit underground, though surface exposures were good.

The country rock is pre-Cambrian amphibole and talc schist that is badly crumpled in a shear zone 200 feet wide. Foliation in the country rock is N. 80° E. approximately parallel to the trend of the shear zone. Copper minerals -- chalcopyrite, bornite, chalcocite, malachite, and azurite -- coat the shear planes and joints. Most of the copper minerals are concentrated in two 6-foot wide zones within the main shear belt. These mineralized zones are separated by 80 feet of very low-grade or barren schist. The mineral on the surface is low-grade and unless the deposit is more extensive or better in depth than on the surface, it could hardly be worked at a profit.

Highline copper prospect. -- The Highline copper prospect is immediately south of the crest of Bull of the Woods Mountain on the ridge between

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10/ Lindgren, Waldemar, Graton, L. C., and Gordon, C. H., The ore deposits of New Mexico: U. S. Geol. Survey Prof. Paper 68, pp. 83-84, 1910.

Rio Hondo and the Middle Fork of Red River, and is on the eastward continuation of the Frazer copper shear zone. Owners are Joe Cannard of Red River and Elmer Burch of Taos, New Mexico. An old shaft on the ridge is about 25 feet deep and follows a mineralized zone 4 to 6 feet wide. The ore minerals are the same as those found at the Frazer copper prospect, however, copper carbonates are more abundant. On the east side of the ridge the mineralized zone is opened by a 30-foot adit and several small cuts.

No assays were made, but the ore appears to be too low-grade to be of commercial value unless a very large body is uncovered. The inaccessibility of the deposit is also a handicap.

MnO_2, Commonwealth, Iron Dyke, and Commodore Lode claims. -- All these claims, except the MnO_2 claim, are on the ridge between Gold Hill and Bull of the Woods Mountain, and are owned by Joe Cannard and Elmer Burch. The MnO_2 claim lies east of the West Fork. No recent work has been done, and all of the workings are caved and slumped. On the Commonwealth claim chalcopyrite, malachite, azurite, and specularite were found in small quartz nodules. On the MnO_2 claim a poorly mineralized zone of magnetite and quartzite, 20 feet wide, trends S. 60° W. at 57° N. A trace of manganese and considerable magnetite occur in a sample of the quartzitic rock from this claim. Specularite occurs on the Iron Dyke claim, and a few stains of copper oxides and flecks of sulfides are found on the dump of the Commodore Lode. All of these deposits are in the metamorphic rocks near Gold Hill. There has been no recorded production from these claims.

Silver Star claim. -- The Silver Star claim is about 300 feet south of Table Rock on the West Fork of the Red River. Several prospect holes expose narrow irregular quartz veins, though no development work has been done for many years. The upper of two old adits is now caved but the lower, on the Elizabethtown ditch, goes into the hill several hundred feet. It is said that $500 in silver were recovered from about 6 tons of ore shipped to Colorado from the upper adit. Three quartz veins, each less than one foot wide, are exposed in a 15-foot zone at the portal of the upper adit. The general trend of the veins is N. 85° W. and the dip is 20° N. Fine-grained galena, one assay of which indicated about 18 ounces of silver per ton, is associated with the quartz. Green copper carbonate and limonite are found in fractures in the quartz. The country rock consists of the metamorphic rocks found near Gold Hill.

Black Copper mine. -- The Black Copper mine is on the north side of Black Copper Canyon about 1,000 feet vertically below the Elizabethtown ditch. The mine is about 7 miles by road from the town of Red River. A five-stamp mill in poor condition is still standing. The workings consist of a shaft, a short upper adit which is open, and a lower adit trending S. 70° E. that is caved 177 feet from the portal. Another adit below and west of the above workings is flooded. The country rock is monzonite and altered basic dike rock in the lower adit, and gneissic pre-Cambrian granite in the upper adit. A shear zone, 1 to 3 feet wide, in the upper adit strikes S. 70° E. and stands nearly vertical. Quartz and pyrite are the principal minerals, and a little chalcocite is scattered throughout the quartz. The finding of a rich pocket of gold ore was reported by several people

who worked on the property, but no records have been found to substantiate this.

Mines and prospects on Bitter Creek

Memphis mine. -- The Memphis mine owned by the Kerschner Brothers of Red River is on the east side of Bitter Creek Canyon, 5 miles from the town of Red River. A primitive road extends from Red River up Bitter Creek to within a mile of the mine. Development work was started in the early 1900's and continued sporadically through 1943. A good detailed report on the mine was made by J. B. Tenney in 1940. Since then, additional work based on Tenney's recommendations has been completed. The average value of samples taken by Tenney are as follows:

Level number	Average value Gold and silver per ton
1	$19.78
2	5.00
3	5.00
4	7.96
Raise	16.56

Tenney estimated in 1940 that 5,300 tons of ore could be mined at a net profit of $5.50 per ton. A strong east-west vein which dips 60° S. has been opened by 4 adits at different levels. All of these adits are caved at the portals, but most of the work is concentrated on the lowest level. This level is said to be over 400 feet long with two stopes above it and one raise 30 feet high. The country rock is a rhyolite dike. Considerable druzy quartz that appears to replace a breccia was found on the dumps.

Independence mine. -- The Independence mine is in the Bitter Creek Canyon, 5½ miles up the creek from Red River and about half a mile above the Memphis mine. When the mine was working, the ore was hauled over a wagon road to Moreno Valley. Four miles of this old road nearest the mine are washed out and impassible. A report on the Independence mine, made by Graton [11] in 1910, states that in 1905 ore was shipped that carried from $400 to $500 in gold per ton. The principal adit just east of Bitter Creek was accessible though badly caved at the portal. This adit is 420 feet long to cave, and a side drift near the portal is 100 feet long to face. (See Fig. 3.) A winze 250 feet from the portal is full of water. The main adit is on a sheared and silicified zone that trends N. 80° E. and dips about 85° S. Quartz lenses and stringers in this sheared zone range from 1 inch to 1 foot in width. Light gray gouge throughout the sheared zone is composed mainly of finely ground quartz. The monzonite country rock is sericitized and silicified along this shear zone.

Pyrite is found throughout the altered monzonite and occasionally in the quartz stringers. An assay of quartz taken from the shear zone shows a trace of gold and 0.22 ounces of silver per ton. [12] Petzite, a gold telluride, was thought by Graton to have been one of the minerals in the high-grade ore, however, it was not found by the authors in their field work.

11/ Lindgren, Waldemar, Graton, L. C., and Gordon, C. H., op. cit.

12/ Assay by R. A. Matuszeski of the New Mexico Bureau of Mines and Mineral Resources.

Enderman prospect. -- This prospect is on the west side of Bitter Creek at the end of the dirt road, 4 miles from Red River. The prospect adit is open and a map was made of the accessible workings. (See Fig. 4.) Pre-Cambrian gneiss is cut by several strong shears that contain considerable gouge. Samples analyzed by R. A. Matuszeski show a trace of silver and molybdenum but no ore in quantity.

Pete Deldosso prospect. -- This prospect owned by Pete Deldosso of Red River is about half a mile up Bitter Creek from the Independence mine. The workings consist of a 200-foot adit with several short crosscuts. These crosscuts follow along weak shear zones that trend between 30° N. and 60° E., and dip steeply to the southeast. A fine-grained sericitized and silicified monzonite is the country rock. A little quartz occurs along the shear zones, but no ore minerals are present. (See Fig. 5.)

Big Five, Edison, Anchor, and Cashier mines. -- All of these mines are from 2 to 4 miles north of the Independence mine near the head of Bitter Creek. For years there has been no underground work on any of the properties except the Edison, and all of them are caved. The country rock is altered greenish tuff and altered monzonite. The workings are on veins in shear and silicified zones. Jack Brandenburg, who worked in the Edison mine, reported that a rich gold streak, generally less than one foot wide, was worked for a short time but that a heavy flow of ground water forced the mine to close.

Midnight mine. -- This mine, operated during the late 1890's, is at the head of Bitter Creek. The inclined shaft is now caved. Material on the dump appears to be badly altered green tuff along with some mineralized

quartz. Very little information was available concerning the old workings. The lode was relocated on July 29, 1947, by M. A. Pratt.

Prospects on Placer Creek

Many prospects in the Placer Creek drainage have been abandoned for years. Most of the openings are caved and overgrown, and very little information is available. In general the workings follow broken and silicified zones in the monzonite, or are along the contacts of monzonite dikes and intruded rocks. Very little work has been done in the volcanic breccia, though at least two adits were driven in this formation.

Buffalo No. 1. -- The main Buffalo workings are 2 miles from the mouth of Placer Creek and are reached by a steep, badly washed wagon road from State Highway 38. The portal of the main adit is caved, but the size of the dump indicates a thousand or more feet of workings underground. Dump material is predominantly volcanic breccia with some altered monzonite and a small amount of silicified and pyritized breccia. From local reports, and judging from material on the dump, very little of the material was ore.

Buffalo No. 2. -- Buffalo No. 2 prospect is near the head of the north branch of Placer Creek. An adit on the property is open and extends S. 85° W. for 360 feet into the hill. (See Fig. 6.) The country rock in the mine is tuff belonging to the volcanic breccia formation. The adit was driven along a broken and silicified zone in the tuff; 50 feet from the portal, a small fault crosses the adit trending N. 40° E. Several minor shears trending north-south also cross the silicified zone. East of the portal a monzonite dike trending N. 30° E. crosses the canyon. Pyrite is scattered throughout the volcanic breccia and silicified zone, but ore minerals are lacking.

Buffalo No. 3. -- Buffalo No. 3 is on the divide between the heads of the two branches of Placer Creek. The portal to the adit is caved. Green tuff, volcanic breccia, and monzonite are on the dump, but very little mineralization was seen.

Prospects on Pioneer Creek

Along lower Pioneer Canyon are many old prospects, several of which have been recently reopened and timbered. These adits are in the granodiorite along sheared and silicified zones. Pyrite is common in the silicified zones, but other sulfides are scarce. Molybdenite is reported 13/ but was not seen.

Silver Tip group. -- This group of prospects is in Pioneer Canyon approximately 2 miles south of Three Canyon Camp in Red River town. The owners are Mrs. L. M. Smith of Red River, C. Young of Leaque, Texas, and R. T. Keeling of Leona, Texas. The workings are extensive, though many of the adits are caved at the portals. The country rocks are limestone, grit, and conglomerate of Paleozoic (?) age that are intruded by many monzonite dikes. Along the contacts of the dikes slight metamorphism of the sediments was noticed. Limestone especially has been silicified and a little epidote was formed.

The main Silver Tip tunnel is caved, but the extensive dump contains monzonitic dike rock, metamorphosed limestone, and conglomerate. With the exception of pyrite, no ore minerals were observed on the dump. South of the portal sedimentary rocks strike north and dip 35° W. They are cut by a monzonite dike which strikes N. 20° E.

13/ Eng. and Min. Jour., News Item, p. 101, December 1947.

An open prospect in the Silver Tip group lies near the property line just north of the Midway claims. The workings consist of an adit striking S. 80° E. for 200 feet, and a drift 120 feet from the portal that extends 100 feet to the south. The country rock is Paleozoic (?) limestones and shales cut by granodiorite dikes. A coarse conglomerate is found in the face of the east-west adit. Considerable movement has taken place on the contacts between the sediments and granodiorite. About 100 feet from the portal of the adit, a silicified zone 3 feet wide strikes N. 10° W. and dips 60° E. (See Fig. 7.)

Midway prospects. -- The Midway claims owned by Harry Moberg and brother of Red River, lie south of the Silver Tip claims on Pioneer Creek. The property is prospected by an adit said to include over 2,000 feet of workings. The adit is inaccessible, but rocks on the dump are metamorphic rocks and monzonite. The sedimentary rock is commonly silicified but ore minerals are scarce, though a few copper stains were seen. A short prospect adit on the southern part of the property starts in metamorphic rock and ends in a monzonite dike. A slip contact between the two rocks trends N. 10° W. and dips 50° E.

Inferno (?) prospect. -- The caved adit of this prospect lies south of the Midway claims on the west side of Pioneer Creek. The predominant rock on the large dump is monzonite with small amounts of sandstone and limestone. A little pyrite was seen.

Caribel mine. -- The Caribel mine is on the west side of Pioneer Creek, 4½ miles from Red River. The caved mine workings lie on the steep canyon slope and are connected by a switchback wagon road. Both fresh

REASONS FOR EXPECTING ORE

Rochester Tunnel - Silver Tip #17 -

The enclosed copy of assay shows the following:

29 to 30' - $\frac{1}{2}$ oz. Gold and 25 Oz. Silver
74 to 78' - $\frac{3}{4}$ oz. of Gold and 13 oz. Silver
146 to 152' - $1\frac{1}{2}$ oz. Gold and $1\frac{1}{2}$ oz. Silver
These are hand picked samples.

New York Tunnel - Silver Tip #1 -

The enclosed copy of assay shows the following:

208 to 218' - .20 oz Gold and $2\frac{1}{2}$ oz. Silver
360 to 368' - 4 oz. Gold and 10 oz Silver
These are hand picked samples

Midway Tunnel - Midway #1 -

30 to 45' - Trace Gold and 1.9 oz Silver
This was channel sampled.

PHONE
GALLUP 2760

A. Mills Beam & Son

PATENTEE NEW METALLURGY
(BEAM PROCESS)

Laboratory 3338 W. 34th Ave.

Denver, Colo., April 16th 1926

I hereby certify that the Samples assay for Charles F.W.Young Continued *gave the following:*

GOLD PER OZ. $..... SILVER PER OZ. $..... PLATINUM PER OZ. $..... LEAD PER LB..... COPPER PER LB ..... ZINC PER LB.....

REMARKS	AU.	AG.	PT.	PB	CU.	ZN.	TOTAL
No 6 209 to 219 ft	.20	2.50					$5.62
Check	.20	2.50					
" 7 25 to 30 ft	.45	1					2.00
Check	.45	1					
" 8 New fault	4.00	10.00					140.50
Check	4.00	10.00					
" 9 in gulch	.15	2.00					4.30
Check	.15	2.00					
" Willard claim	.20	1.00					4.65
Check	.20	1.00					
Book ..... Page				Charges $.....			
Augustan Dyke	.36	1.00					7.85
REMARKS: Check	.36	1.00					

Charges $16.50

Chemist in Charge A. Mills Beam

New York Tunnel

PHONE
GALLUP 2760

A. Mills Beam & Son

PATENTEE NEW METALLURGY
(BEAM PROCESS)

Laboratory 3338 W. 34th Ave. Denver, Colo., April 16th 1926

I hereby certify that the Samples assay for Charles F. W. Young *gave the following:*

GOLD PER OZ. $ 20.00 SILVER PER OZ. $ 65 cts PLATINUM PER OZ. $ LEAD PER LB. COPPER PER LB ZINC PER LB.

REMARKS	AU.	AG.	PT.	PB.	CU.	ZN.	TOTAL
No 1 Silver tip 20-30 ft	.50	25.00					$26.25
Check	.50	25.00					
" 2	.30	1.00					6.65
Check	.30	1.00					
" 3 74 to 78 ft	.75	15.00					$23.45
Check	.75	13.00					
" 4 107 to 111 ft	.42	1.00					9.05
Check	.42	1.00					
" 5 133 to 137 ft	.25	.50					5.32
Check	.25	.50					

Book ..... Page ..... Charges $ .....

REMARKS:

Chemist in Charge A. Mills Beam

Rochester Tunnel

PHONE
GALLUP 2760

A. Mills Beam & Son

PATENTEE NEW METALLURGY
(BEAM PROCESS)
Laboratory 3338 W. 34th Ave.

Denver, Colo., July 10th 1926

I hereby certify that the Samples assay for Chas. F. W. Young 410 Oil Exchange Bldg, Oklahoma City. gave the following:

GOLD PER OZ. $20.00 SILVER PER OZ. $0.60 PLATINUM PER OZ. $..... LEAD PER LB..... COPPER PER LB..... ZINC PER LB.....

REMARKS	AU.	AG.	PT.	PB	CU.	ZN.	TOTAL
Ore sample	1.50	1.50					$ 30.90

Book 0 Page 93 Charges $ 1.50

REMARKS:

ROCHESTER TUNNEL
SILVERTIP - #17
FROM 146 TO 152

Chemist in Charge L. F. Beam

ROCHESTER TUNNEL
SILVERTIP #17
FROM 146 TO 152

VI

STATEMENT OF PROPOSED EXPLORATION

1. Silver Tip #1 - We propose to open this tunnel and core drill the areas shown on the assay sheet. 208 to 218', several holes and also from 360 to 368', several holes.

2. Silver Tip #17 - We propose to open this tunnel and core drill the three areas shown onnthe assay sheet.
   29 to 30' Core several holes
   74 to 78' Core several holes
   146 to 152' Core several holes

3. Midway #1 - We propose to core drill several holes from 30 to 45'

4. Additional Core Drilling - We also propose that on the two veins assaying the highest that we core drill them from the outside to get deep enough to test the vein below the water table.

VIII

DETAILED ESTIMATE OF EXPLORATION COST

Silver Tip #1	- Open tunnel, caved at entrance	$ 5,000.00
	Core drilling -	
	From 208 to 218' - 100' drilling @ 7.50	750.00
	From 360 to 368' - 100' drilling @ 7.50	750.00
Silver Tip #17	- Open tunnel, caved at entrance	2,000.00
	Core drilling -	
	From 29 to 30'- 100' drilling @ 7.50	750.00
	From 74 to 78'- 100' drilling @ 7.50	750.00
	From 146 to 152'- 100' drilling @ 7.50	750.00
Midway #1	- Core drilling	
	From 30 to 45'- 100' drilling @ 7.50	750.00
Additional Drilling	- The two veins assaying the highest	
	Deep coredrilling from the outside.	
	3000' @ 7.50	22,500.00
	Build road	2,000.00
Assaying	- 250 Samples @ 12.50	3,125.00
Engineering	- 4 Months @ 1500.00	6,000.00
Supervision	- 3 Months @ 1000.00	3,000.00
Geological Report-		1,500.00
	Total -	$ 49,625.00

MME Form 7
(2/63)

OFFICIAL FILE COPY

Date	Surname	Code
11/5/68	Kirkham	120
	Johnson	120
		110
		220

November 5, 1968

Memorandum

To: The File

From: Edward C. Peterson

Subject: OME-6686 (Silver-Gold)
National Minerals Corporation
Silver Tip Claims
Taos County, New Mexico

The Applicant has not replied to our letter of August 6, 1968, and the 90-day extension period granted has expired. Accordingly, the subject docket is referred to the inactive file and the application considered as having been withdrawn.

Edward C. Peterson

Edward C. Peterson

cc: Director's Reading File
Economic Geology File
OME Docket
OME Reading File
Region III
Mr. Peterson

ECPeterson/bsl 11/5/68

MME Form 7
(2/63)

OFFICIAL FILE COPY

Date	Surname	Code
8/2/68	(on leave)	120
8/5/68	Kirkemo	120
		110
8/6	cal	220
		120M

AIRMAIL

AUG 6 1968

National Minerals Corporation
1407 Tilden
Wichita Falls, Texas 76309

Re: OME-6686 (Silver-Gold)
National Minerals Corporation
Silver Tip Claims
Taos County, New Mexico

Gentlemen:

Thank you for informing us that you require additional time to reopen the old workings for inspection and sampling purposes.

As we wish to cooperate with you fully in allowing ample time for you to complete this preliminary work and obtain the information previously requested, we shall be pleased to keep your file active for an additional 90 days. However, we cannot hold an application indefinitely. Therefore, if we do not receive the information by about November 1, we shall consider the application as having been withdrawn and place it in our inactive files.

If the application is withdrawn and at any time in the future you wish to reopen this case, you may do so by filing a new application, referring to this OME docket number, and furnishing the information pertinent to your new proposal. This information should include new bank letters dated within 90 days of filing the new application, but need not repeat data already submitted.

Sincerely yours,

FRANK E. JOHNSON

Frank E. Johnson
Chief, Office of
Minerals Exploration

cc: Director's Reading File
Economic Geology File
OME Docket
OME Reading File
Region III
Mr. Peterson

ECPeterson/bsl 8/2/68

MAYNARD M. STEPHENS

REGISTERED PETROLEUM AND
GEOLOGICAL ENGINEER

REPRESENTING
MAYNARD M. STEPHENS COMPANY
817-322-4582

1407 TILDEN
WICHITA FALLS, TEXAS
76309

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WASHINGTON, D.C. 20242

JUL 19 1968

120 P

AIRMAIL

National Minerals Corporation
1407 Tilden
Wichita Falls, Texas 76309

Re: OME-6686 (Silver-Gold)
National Minerals Corporation
Silver Tip Claims
Taos County, New Mexico

Gentlemen:

We have not had a reply to our letter of June 10, 1968. If you require additional time to prepare the information previously requested, please let us know. If we do not receive a reply from you within thirty days from the date of this letter, we will assume that you are no longer interested in proceeding with your application and shall consider it as having been withdrawn.

Sincerely yours,

Frank E. Johnson
Chief, Office of
Minerals Exploration

Copy to R-111

Dear Mr Johnson:
A representative is in Red River trying to gain entrance into the drifts mentioned in the original application. To date he has had trouble finding any miners who will work — he is still trying and I will let you know when the adit can be entered for inspection. Maynard W Stephens

MME Form 7
(2/63)

OFFICIAL FILE COPY

Date	Surname	Code
7/19/68	Peterson	120
7/19/68	Sirbasoma	120
		110
7/19	cac	220
		120M

AIRMAIL

National Minerals Corporation
1407 Tilden
Wichita Falls, Texas 76309

Re: OME-6686 (Silver-Gold)
National Minerals Corporation
Silver Tip Claims
Taos County, New Mexico

Gentlemen:

We have not had a reply to our letter of June 10, 1968. If you require additional time to prepare the information previously requested, please let us know. If we do not receive a reply from you within thirty days from the date of this letter, we will assume that you are no longer interested in proceeding with your application and shall consider it as having been withdrawn.

Sincerely yours,

FRANK E. JOHNSON (gla)

Frank E. Johnson
Chief, Office of
Minerals Exploration

cc: Director's Reading File
Economic Geology File
OME Docket
OME Reading File
Region III
MR. Peterson

ECPeterson/bsl 7/19/68

MME Form 7
(2/63)

OFFICIAL FILE COPY

Date	Surname	Code
6/10/68	[illegible]	120
6/10/68	[illegible]	120
		110
6/10	[illegible]	220
		120M

AIRMAIL

JUN 10 1968

National Minerals Corporation
1407 Tilden
Wichita Falls, Texas 76309

Re: OME-6666 (Silver-Gold)
National Minerals Corporation
Silver Tip Claims
Taos County, New Mexico

Gentlemen:

We have not had a reply to our letter of April 9, 1968. Will you please advise us when we may expect to receive the necessary data so that we may continue processing your application. If you have decided not to pursue it further, please so inform us.

We wish to cooperate fully in allowing you ample time to obtain the requested information, however, we cannot indefinitely postpone action on an application.

Sincerely yours,

Frank E. Johnson
Chief, Office of
Minerals Exploration

cc: Director's Reading File
Economic Geology File
OME Docket
OME Reading File
Region III
Mr. Peterson

ECPeterson/bsl 6/10/68

MME Form 7
(2/63)

OFFICIAL FILE COPY

Date	Surname	Code
4/5/68	Peterson	120
4/9/68	Kirkham	120
		110
4/9	Cal	220
		120M

AIRMAIL

APR 9 1968

National Minerals Corporation
1407 Tilden
Wichita Falls, Texas 76309

Re: OME-6686 (Silver and Gold)
National Minerals Corporation
Silver Tip Claims
Taos County, New Mexico

Gentlemen:

This will acknowledge your letter and enclosures of April 1, 1968, relating to the proposed work at the Silver Tip Property.

To evaluate the potential of the deposit and verify old samples and assay data, it will be necessary for an OME representative to inspect the underground workings that relate to the proposed work. Before such an examination can be scheduled, we must have your assurance that these workings will be open at the time of the inspection. Please note that any work that you may perform to reopen the adits for this purpose does not assure the granting of an exploration contract.

As previously requested, please furnish copies of your correspondece to the two banks requesting an exploration loan. The letters should state the amount of the loan, purpose, date, and terms requested. Your statement that the loan request was conducted orally with the banks is not sufficient for our records.

If the proposed work is to be contracted, as indicated in your application, cost estimates should be supported by bids from three contractors if possible.

We shall continue to hold your application pending your reply. Nothing in this letter should be construed as a commitment by the Government to grant an exploration contract.

Sincerely yours,

Harold Kirkham (gla)
for Frank E. Johnson, Chief
Office of Minerals Exploration

cc: Director's Reading File
Division File
Economic Geology File
OME File
OME Reading File
Mr. Peterson
Region II w/copy of incoming ltr. dtd 4/1/68

ECPeterson/bsl 4/5/68

MAYNARD M. STEPHENS COMPANY

REGISTERED PETROLEUM AND GEOLOGICAL ENGINEERS

1407A TILDEN

WICHITA FALLS, TEXAS 76309

PHONE 322-4582

ALTERNATE PHONE 322-2295

April 1, 1968

OFFICIAL COPY
O. M. E.
RECEIVED
APR 4 1968

INITIALS	CODE
	~~120~~
bcf	120
	110
	120

United States Department of the Interior
Geological Survey
Washington D. C. 20242

Re: OME-6686 (Silver and Gold)
National Minerals Corporation
Silver Tip Claims
Taos County, New Mexico

Attention: Frank E. Johnson
Chief, Office of Mineral Exploration

Dear Mr. Johnson:

I am sorry to cause you so much trouble and problems over our request for aid for the above mentioned group. Complete detailed geological information is not available because of the inaccessability of some of the drifts. Generally the area is described in the Bulletin 71 entitled "Mineral Resources of Taos County" by John H. Shilling, published by the State Bureau of Mines and Mineral Resources, New Mexico Institute of Mining and Technology, Campus Station, Socorro, New Mexico. Reference to our area is made on page 75. Plate No. 1 of Bulletin 71 is included herewith for your reference. Circular 18 entitled: "The Geology and Ore Deposits of Red River and Twining District, Taos County, New Mexico"- a preliminary report, by Charles F. Park, Jr. and Phillip F. McKinley, prepared in cooperation with the Geological Survey- 1948- page 29- refers to the Silver Tip group of Mines in a general way. Direct mention is made of the Silver Tip group including the Midway prospects which is the Moberg group of claims.

I have spent many hours personally over the area, and I find Charlie Park's work essentially correct except for very minor details. Since Charlie is a classmate of mine from Minnesota, I would expect our work to be quite similar.

The National Minerals Corporation, of course, would open the old workings, but since further development without governmental help is impossible, we need to have some evidence of the availability of the loan before we spend any additional money in the area. We have meticulously kept the claims intact for a great number of years out of our personal funds, and we are now at the decision point as to either completely dropping the development of the area or going on further with our prospect. The assays available from these caved areas which were supplied to you are our best evidence that commercial production occurs in the area at the present gold and silver prices. There is a lot of gold here, but it is in scattered areas.

Some of the confusion regarding the letters from the bank exists from the fact that the original letters were to Kickapoo Mining Company. This was the name used by the partnership operating and owning claims in Taos, the Penasco area, and the Red River area. It was deemed important that we incorporate because of the age of some of the members. Thus because of the name conflict, it was necessary for us to change to National Minerals Corporation, the name now used. Ownership is exactly the same and has remained the same for quite a number of years in the past. We are revising the letters from the banks, however, using the National Minerals Corporation's name. We did not have any letter to the banks since we described our needs in person, showing them the information that we had- not only to the two banks from which we have letters, but also to a number of other private sources. We have not been able to secure any help especially with the extreme scarceness of money and the high discount rate imposed by the federal banks. We have contacted a number of private funds, but in each case the present unrest concerning the national and international gold situation has made financial help impossible.

We are enclosing two copies of the transfer of title of the Tip Top, Moberg and Keyhole claims from the partnership to the National Minerals Corporation, the rights of Feather, Gohlke and Stephens. You have a copy of our original lease which indicates a tenure of Ninety nine years. Should you find it possible to make a loan to the Corporation, we will immediately forward to you subordination agreements so that your interest will be protected by the original lease holder. Such papers have not been required from the original owners since at the present time we have been unable to borrow any money. This will be forwarded to you if there is any indication that favorable consideration will be given this proposal.

We greatly appreciate your patience with us. Frankly the assessment work has been quite costly, but we have meticulously attempted to do our share of the work in order to keep the claims active and free of any question as to their validity.

Thank you again for your help. Should you need further information, please bear with us and advise us as to your needs, and we will do whatever is possible to supply this for you.

Yours very truly,

Maynard M. Stephens

MMS:mds

Enclosures

MAYNARD M. STEPHENS COMPANY
REGISTERED PROFESSIONAL PETROLEUM ENGINEERS AND GEOLOGISTS
WICHITA FALLS, TEXAS 76309

City National Bank

WICHITA FALLS, TEXAS

HAROLD JONES
PRESIDENT

March 20, 1968

National Minerals Corporation
1407 Tilden
Wichita Falls, Texas

ATTENTION: Mr. M. M. Stephens

Re: Pioneer Canyon Prospect

Gentlemen:

You have requested a loan from this bank in the amount of $45,000 to be paid from ore production with interest at 6 percent over a period of five years.

This is to advise that this bank does not engage in this type of financing and we must therefore decline your request.

Very truly yours,

Harold Jones

Harold Jones

HJ:ss

CITY NATIONAL BANK
WICHITA FALLS, TEXAS

HAROLD JONES
PRESIDENT

March 20, 1968

National Minerals Corporation
1407 Tilden
Wichita Falls, Texas

ATTENTION: Mr. M. M. Stephens

Re: Pioneer Canyon Prospect

Gentlemen:

You have requested a loan from this bank in the amount of $45,000 to be paid from ore production with interest at 6 percent over a period of five years.

This is to advise that this bank does not engage in this type of financing and we must therefore decline your request.

Very truly yours,

Harold Jones

Harold Jones

HJ:ss

GRADY D. ATCHLEY
Senior Vice President

THE FIRST-WICHITA NATIONAL BANK

WICHITA FALLS, TEXAS

March 20, 1968

National Minerals Corporation
1407 Tilden Street
Wichita Falls, Texas

Attn: Maynard M. Stephens

Dear Mr. Stephens:

This has reference to your application for a loan in the amount of $45,000 for a period of five years, payable monthly for the purpose of developing mining properties in Pioneer Canyon near Red River, New Mexico, owned by your company.

I regret to inform you that this loan does not meet the requirements of our loan policies and it is therefore necessary for us to decline the application.

Yours very truly,

G. D. Atchley
Senior Vice President

GDA/bn

GRADY D. ATCHLEY
Senior Vice President

THE FIRST-WICHITA NATIONAL BANK

WICHITA FALLS, TEXAS

March 20, 1968

National Minerals Corporation
1407 Tilden Street
Wichita Falls, Texas

Attn: Maynard M. Stephens

Dear Mr. Stephens:

This has reference to your application for a loan in the amount of $45,000 for a period of five years, payable monthly for the purpose of developing mining properties in Pioneer Canyon near Red River, New Mexico, owned by your company.

I regret to inform you that this loan does not meet the requirements of our loan policies and it is therefore necessary for us to decline the application.

Yours very truly,

G. D. Atchley

G. D. Atchley
Senior Vice President

GDA/bn

ASSIGNMENT OF MINING CLAIMS

THE STATE OF Texas)
COUNTY OF Wichita) KNOW ALL MEN BY THESE PRESENTS THAT:

WHEREAS, Heretofore a mining claim or claims owned by R. T. Keeling and wife Ruby Keeling and Bessie M. Young, widow, as owners on the lode, vein, or deposit, for the mining of gold, silver, copper, lead, mercury, uranium, molybdenum, vanadium, and other valuable minerals, situated in Township 28 North and 29 North, Range 14 East in the Red River mining district, Taos County, State of New Mexico, to wit:

The Midway #1 and #2 claims, Key Hole Claim, Blue Ribbon Claim, Reward Claim, Lucky Strike #1 and #2 claims, and Reward Claim, and Tip Top claim.

WHEREAS, The original locators and the undersigned lessees have complied with the requirements of Section 2324 of the Revised Statutes of the United States and all other Federal and State laws and all the customs and regulations of said mining District, and each of the above claims is now owned by the undersigned, and all the location and assessment work required by said laws and regulations have been performed, and said claims are now in good standing:

NOW THEREFORE, In consideration of Ten or more Dollars in hand paid the sufficiency and the receipt of which is hereby acknowledged, the undersigned R. L. Gohlke, Maynard Stephens, and Harry M. Feather as Assignors, does hereby sell, assign, convey, transfer, and set over, all of the right, title, and interest of the original locators and present owners in and to the above described claims, together with all machinery, equipment, and other improvements for mining purposes on the lands covered by said claims unto National Minerals Corporation, successors and assigns.

IN WITNESS WHEREOF, this instrument is executed this 26th Day of March, 1968.

R. L. Gohlke
R. L. Gohlke

Maynard Stephens
Maynard Stephens

Harry M. Feather
Harry M. Feather

THE STATE OF TEXAS
COUNTY OF WICHITA

On this 26th day March, 1968, before me personally appeared R. L. Gohlke, Maynard Stephens, and Harry M. Feather, to me known to be the persons described in and who executed the foregoing instrument and acknowledged that they executed the same as their free act and deed.

Witness my hand and official seal this the day and year written above.

My Commission Expires: 6-1-69

Jeanne Kaiser
Notary Public

ASSIGNMENT OF MINING CLAIMS

THE STATE OF Texas ()
COUNTY OF Wichita () KNOW ALL MEN BY THESE PRESENTS THAT:

WHEREAS, Heretofore a mining claim or claims owned by R. T. Keeling and wife Ruby Keeling and Bessie M. Young, widow, as owners on the lode, vein, or deposit, for the mining of gold, silver, copper, lead, mercury, uranium, molybdenum, vanadium, and other valuable minerals, situated in Township 28 North and 29 North, Range 14 East in the Red River mining district, Taos County, State of New Mexico, to wit:

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NOW; THEREFORE; In consideration of Ten or more Dollars in hand paid the sufficiency and the receipt of which is hereby acknowledged, the undersigned R. L. Gohlke, Maynard Stephens, and Harry M. Feather as Assignors, does hereby sell, assign, convey, transfer, and set over, all of the right, title, and interest of the original locators and present owners in and to the above described claims, together with all machinery, equipment, and other improvements for mining purposes on the lands covered by said claims unto National Minerals Corporation, successors and assigns.

IN WITNESS WHEROF, this instrument is executed this 26th Day of March, 1968.

R. L. Gohlke

R. L. Gohlke

Maynard Stephens

Maynard Stephens

Harry M. Feather

Harry M. Feather

THE STATE OF TEXAS
COUNTY OF WICHITA

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Jeanne Kauer
Notary Public

Buffalo No. 3. — Buffalo No. 3 is on the divide between the heads of the two branches of Placer Creek. The portal to the adit is caved. Green tuff, volcanic breccia, and monzonite are on the dump, but very little mineralization was seen.

Prospects on Pioneer Creek

Along lower Pioneer Canyon are many old prospects, several of which have been recently reopened and timbered. These adits are in the granodiorite along sheared and silicified zones. Pyrite is common in the silicified zones, but other sulfides are scarce. Molybdenite is reported [13] but was not seen.

NATIONAL MINERALS →

Silver Tip group. — This group of prospects is in Pioneer Canyon approximately 2 miles south of Three Canyon Camp in Red River town. The owners are Mrs. L. M. Smith of Red River, C. Young of Leaque, Texas, and R. T. Keeling of Leona, Texas. The workings are extensive, though many of the adits are caved at the portals. The country rocks are limestone, grit, and conglomerate of Paleozoic (?) age that are intruded by many monzonite dikes. Along the contacts of the dikes slight metamorphism of the sediments was noticed. Limestone especially has been silicified and a little epidote was formed.

The main Silver Tip tunnel is caved, but the extensive dump contains monzonitic dike rock, metamorphosed limestone, and conglomerate. With the exception of pyrite, no ore minerals were observed on the dump. South of the portal sedimentary rocks strike north and dip 35° W. They are cut by a monzonite dike which strikes N. 20° E.

13/ Eng. and Min. Jour., News Item, p. 101, December 1947.

An open prospect in the Silver Tip group lies near the property line just north of the Midway claims. The workings consist of an adit striking S. 80° E. for 200 feet, and a drift 120 feet from the portal that extends 100 feet to the south. The country rock is Paleozoic (?) limestones and shales cut by granodiorite dikes. A coarse conglomerate is found in the face of the east-west adit. Considerable movement has taken place on the contacts between the sediments and granodiorite. About 100 feet from the portal of the adit, a silicified zone 3 feet wide strikes N. 10° W. and dips 60° E. (See Fig. 7.)

NATIONAL MINERALS →

Midway prospects. -- The Midway claims owned by Harry Moberg and brother of Red River, lie south of the Silver Tip claims on Pioneer Creek. The property is prospected by an adit said to include over 2,000 feet of workings. The adit is inaccessible, but rocks on the dump are metamorphic rocks and monzonite. The sedimentary rock is commonly silicified but ore minerals are scarce, though a few copper stains were seen. A short prospect adit on the southern part of the property starts in metamorphic rock and ends in a monzonite dike. A slip contact between the two rocks trends N. 10° W. and dips 50° E.

Inferno (?) prospect. -- The caved adit of this prospect lies south of the Midway claims on the west side of Pioneer Creek. The predominant rock on the large dump is monzonite with small amounts of sandstone and limestone. A little pyrite was seen.

Caribel mine. -- The Caribel mine is on the west side of Pioneer Creek, 4½ miles from Red River. The caved mine workings lie on the steep canyon slope and are connected by a switchback wagon road. Both fresh

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National Minerals

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NATIONAL MINERALS

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MME Form 7
(2/63)

OFFICIAL FILE COPY

Date	Surname	Code
3/15/68	[illegible]	120
3/18/68	Kirkham	120
		110
3/18	[illegible]	220
		120M

MAR 18 1968

AIRMAIL

National Minerals Corporation
1407 Tilden
Wichita Falls, Texas 76309

Re: OME-6686 (Silver and Gold)
National Minerals Corporation
Silver Tip Claims
Taos County, New Mexico

Gentlemen:

This will acknowledge your letter of March 11, 1968, enclosing additional information in support of the subject application for exploration assistance.

We regret that we still cannot give full consideration to your proposal because of insufficient information. Regulations governing administration of the OME program require that all of the detailed data called for by the application form be included with each application. Without this information, it is impossible to evaluate all of the factors involved and to decide whether the Government should enter into an exploration contract with the Applicant. It was for these reasons that we asked for additional information in our letter of January 23. We suggest that you review the letter wherein we cite specific requirements relating to your letters to the banks requesting an exploration loan, bids for the work to be contracted, and geological evidence to support your proposal.

The geologic report submitted refers to the generalities of the district and does not add the necessary support for the proposed program. Information needed may include geologic maps, projections or sections, detailed description of the structures, formations, and mineral occurrences relating to the specific targets you wish to test. In the event of a field examination, the underground workings must be accessible to the field examiner for inspection and sampling purposes, unless representative surface indications are available for examination. Please note that the Government does not participate in the cost of reopening old workings for examination purposes.

Also required is a copy of the document by which National Minerals Corporation control the Tip Top, Moberg, and Kay Hole claims. If Feather, Gehlke, and Stephens are the owners, a copy of the document assigning their rights to the Corporation is required. If the property is being leased, Lien and Subordination Agreements signed by the owners are needed.

This request for additional information should not be construed as a commitment by the Government to grant an exploration contract. We shall continue to hold the processing of the application until the data are received.

Sincerely yours,

FRANK E. JOHNSON (gh)

Frank E. Johnson
Chief, Office of
Minerals Exploration

cc: Director's Reading File
Division File
Economic Geology File
OME File
OME Reading File
Mr. Peterson
Region III w/copy of incoming ltr. dtd. 3/11/68 & Assignment of Mining Claims

ECPeterson/bsl 3/15/68

MAYNARD M. STEPHENS COMPANY

REGISTERED PETROLEUM AND GEOLOGICAL ENGINEERS
1407A TILDEN
WICHITA FALLS, TEXAS 76309
PHONE 322-4582
ALTERNATE PHONE 322-2295

March 11, 1968

OFFICIAL COPY
O. M. E.
RECEIVED
MAR 14 1968
INITIALS CODE
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bel 120 m
110
50 120 p

United States Dept. of the Interior
Geological Survey
Washington D. C. 20242

Re: OME-6686 (Silver and Gold)
National Minerals Corporation
Silver Tip Claims
Taos County, New Mexico

Attention: Frank E. Johnson
Chief, Office of Minerals Exploration

Dear Mr. Johnson:

The answer to your letter of January 23rd has been delayed pending legal work related to the incorporation of National Minerals Corporation. Answers to your questions as they are proposed paragraph by paragraph in your letter are as follows:

Paragraph 1- Reference to our initial report will indicate that in our group of mining claims, which include the Tip Top, Moberg and Key Hole along with the Silver Tip group, you will note the Rochester and New York tunnels are mentioned. Both of these tunnels are caved, but we have in our possession assays taken back years ago when gold was $20 and silver was 60¢. This information was conveyed to you in our report. It was our proposal to open these areas and core drill them and do additional drifting and sampling in order to substantiate the presence of economic minerals and their extent. If our work bears out the original development, extensive exploration throughout the entire tunnel and along the strike and dip of the vein of course is planned. All of the money requested is for this exploratory work.

Paragraph 2- This information we believe was submitted to you in our original proposal.

Paragraph 3- Two letters from banks were submitted with our original proposal.

Paragraph 4- We propose to furnish personal labor, personal supervision, personal engineering and out of pocket cash to account for our part of the loan.

filed left-hand side

Paragraph 5- Attached herewith is the assignment of the claims to the National Minerals Corporation duly executed. We originally submitted to you an assignment from Young et al conveying interest to Harry Feather, R. L. Gohlke, and Maynard M. Stephens. This attached document brings your files up to date and indicates current ownership. The other claims mentioned, (the Tip Top, Moberg and Key Hole) are assigned in the original document to the persons mentioned above and are included in the phraseology "all of the claims owned by Young et al in the area". These claims have been kept current since the original staking and the assessment affidavits have been duly filed.

Paragraph 6- We have contacted Wade White of Silver City and Quinton Drunzer of Truth and Consequences who are standing by ready to give us a quotation on the cost of the work. We also use contract miners in the questa and Taos area, but since we do not have the funds at the present time, nor will we have unless this loan is made, we have not felt it advisable to ask these contractors to make a bid on the work. We will, however, submit this along with our monthly reports required by loan agreement.

Paragraph 7- All the men mentioned are experienced in mining and economic mineral development. Mr. R. L. Gohlke is a graduate in engineering from the Colorado School of Mines; Mr. Feather has worked extensively in the uranium development in Utah and in other areas of New Mexico and Texas. I hold a doctorate degree in Economic and Mining Geology, Ore Dressing, and also engineering degrees. I am registered as a professional engineer in six states including New Mexico, being listed both as a petroleum engineer and a mining engineer in the latter state. Since we are a self owned corporation, we expect to personally supervise the work as it is done.

Paragraph 8- As you know, weather in the winter time is rather rugged in this area, but as soon as the contract is executed and as soon as weather permits, we are in a position to immediately start operations.

We greatly appreciate your interest in this proposal, and should you require additional information, we will be most happy to supply whatever is required.

Yours very truly,

Maynard M. Stephens

MMS:mds

Enclosures

MAYNARD M. STEPHENS COMPANY
REGISTERED PROFESSIONAL PETROLEUM ENGINEERS AND GEOLOGISTS
WICHITA FALLS, TEXAS 76309

GME Docket Surname

1/23/68 Paterson 120

Kirkham 120

110

220

120M

AIRMAIL

National Minerals Corporation
1407 Tilden
Wichita Falls, Texas

JAN 2 1/23

Re: GME-6686 (Silver and Gold)
National Minerals Corporation
Silver Tip Claims
Taos County, New Mexico

Gentlemen:

Preliminary review of your application for exploration assistance indicates that the work you propose is more in the nature of development than exploration and as such is not eligible for GME assistance. Should you expand your proposal to include some exploration along the strike or down dip from the old workings, or to test other favorable targets that may exist on the property in search of new or unexplored ore bodies, some of the work may possibly qualify for Government assistance.

If an exploration project is proposed, you will also have to furnish the following information, in addition to the geological evidence to support the proposal, to complete your application.

Submit copies of your correspondence to the two banks requesting an exploration loan. Your letters should state the amount of the loan, purpose, date, and terms requested.

In the event of an exploration contract, state how you propose to furnish your share of the project costs.

Since National Minerals Corporation does not own the claims where work is contemplated, it will be necessary for you to furnish five copies of Lien and Subordination Agreements signed by the owners of the property. In addition, a copy of the document transferring the rights of R. L. Gehlke, Maynard Stephens, and Harry M. Feather, who are listed as the lessees in the Mineral Lease, to the Applicant (National Minerals Corporation) is required. The lease mentions only the Silver Tip group of claims. State how you control the other claims mentioned. Lien and Subordination Agreements (six copies MME Form 52) are enclosed for your possible use.

If any of the proposed work is to be contracted, cost estimates must be supported by bids from three independent contractors if possible.

State your operating experience and background to conduct the proposed work and also that of the person who would supervise the project.

If a 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.

This request for additional information should not be construed as a commitment by the Government to grant an exploration contract. We shall hold the further processing of the application until the requested data are received.

Sincerely yours,

FRANK E. JOHNSON

Frank E. Johnson
Chief, Office of
Minerals Exploration

Enclosures

cc: Director's Reading File
Division File
Economic Geology File
OME Docket
OME Reading File
OME Region III
Mr. Peterson

ECPeterson/gla 1-23-68

January 17, 1968

National Minerals Corp.
1407 Tilden
Wichita Falls, Texas 76309

Subject: OME-6686

Gentlemen:

Your application for exploration assistance, dated January 12, 1968, submitted to our office at Denver, Colorado, has been assigned Docket No. OME-6686.

Please identify all future correspondence relating to your application by this docket number.

Sincerely yours,

Frank E. Johnson
Chief, Office of
Minerals Exploration

Copy to Region III

EXPLANATION

Quaternary-Tertiary (?)

- Gravels: valley fill and high level terrace gravels

Tertiary

- Altered and brecciated rock (hydrothermal pipes)
- Quartz monzonite and quartz latite dikes
- Granite
- Volcanic complex: andesite, quartz latite, rhyolite, and interbedded sediments

Precambrian

- Granite
- Metamorphic complex

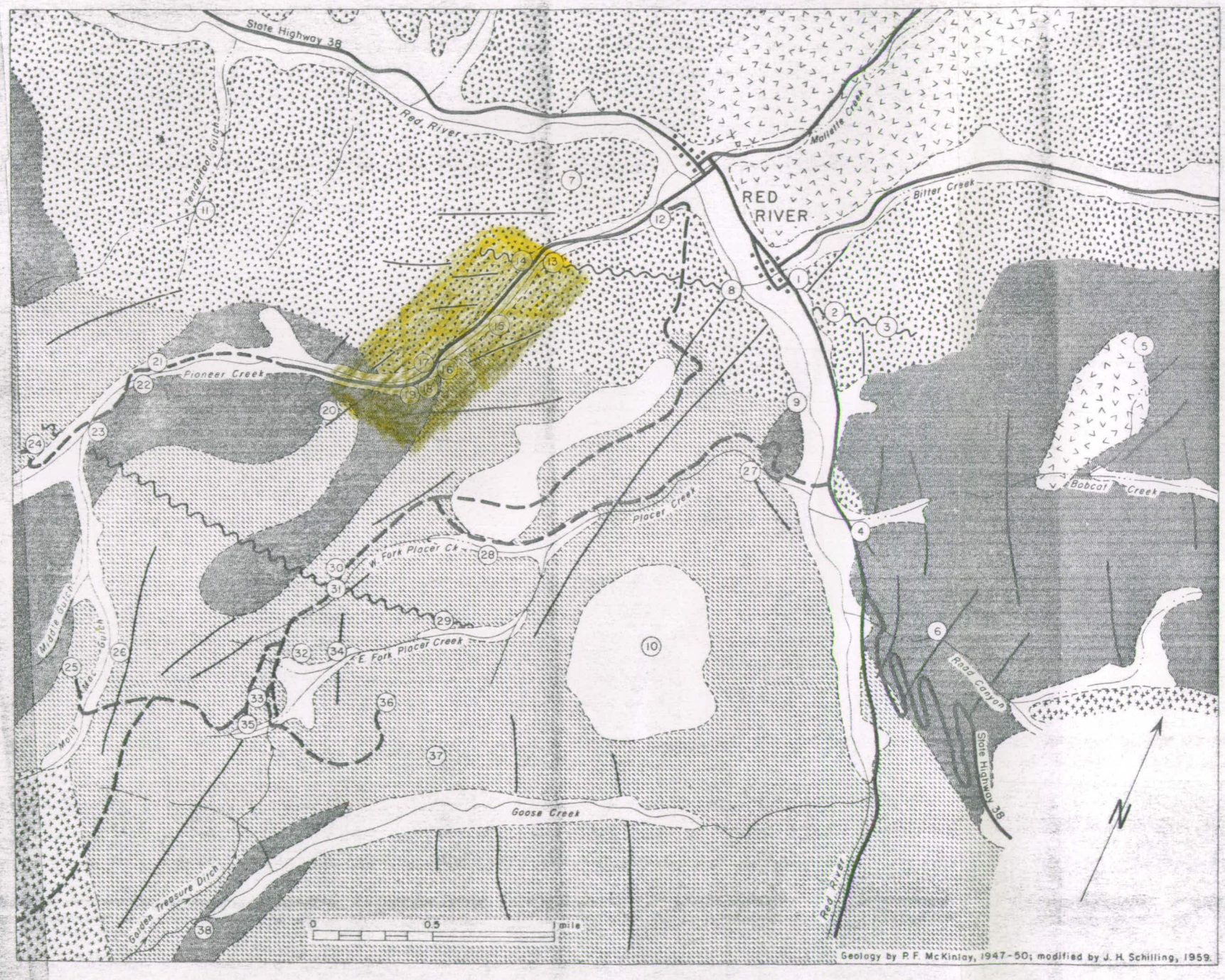
- Shear zones

MINES AND PROSPECTS:

1. Ethel
2. Esther
3. Granite
4. Beverly
5. Jacks & Sixes
6. Ragged Pants Dick
7. Sampson
8. Copper King
9. Willard
10. Hilltop
11. Victor No. 2
12. Entrance Tunnel
13. Ajax Tunnel
14. Dyke Tunnel
15. Silver Tip Tunnel
16. Creek Tunnel
17. Hillside Tunnel
18. Moberg No. 2 Tunnel
19. Midway
20. Stella
21. Anderson
22. Crowe
23. Inferno
24. Caribet
25. Bunker Hill
26. Raton
27. Purkapile
28. Buffalo Tunnel
29. Buffalo Shaft & Blue Rock Tunnel
30. Sylvia Tunnel
31. Jay Hawk
32. Golden Treasure
33. Golden Calf
34. Gold Reef
35. Nashville
36. Scarlet
37. Jefferson
38. Golden Goose

GEOLOGY, MINES, AND PROSPECTS OF THE RED RIVER MINING SUBDISTRICT

Note: The colored section is the area to be tested
#17 is the exact location on this map



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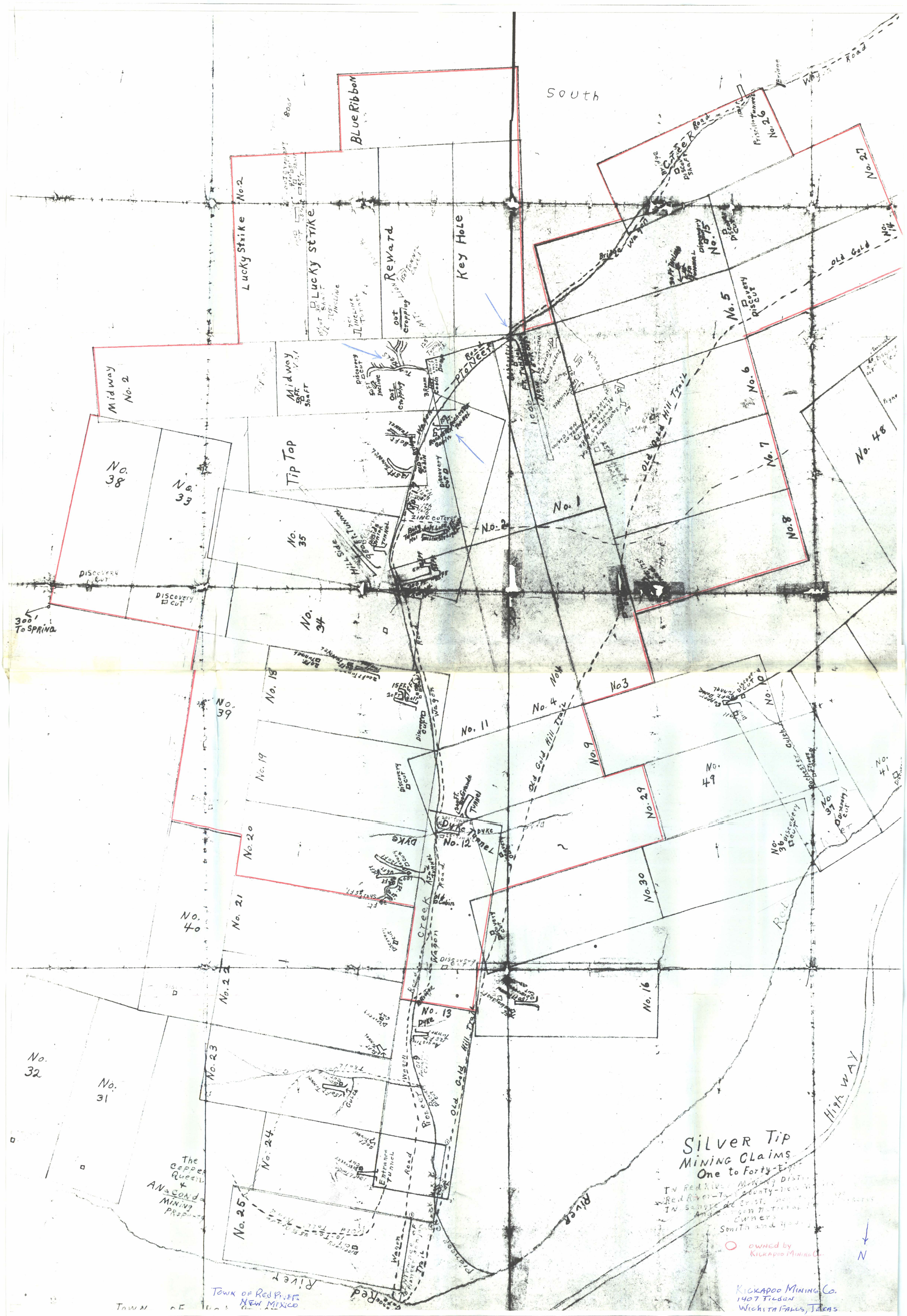
South
Lucky Strike No. 2
Lucky Strike
Blue Ribbon
Reward
Key Hole
Midway No. 2
Midway
Tip Top
No. 38
No. 33
No. 35
No. 34
No. 39
No. 18
No. 19
No. 20
No. 21
No. 40
No. 22
No. 23
No. 24
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No. 13
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No. 49
No. 48
No. 26
No. 27
No. 14
No. 41
No. 37
No. 36
Pioneer
Pioneer Road
Old Gold Hill Trail
Old Gold
Dyke
Dyke Tunnel
Creek
Wagon Road
Red River
Silver Tip
Mining Claims
One to Forty-Eight
owned by
Kickapoo Mining Co.
The Copper Queen & Anaconda Mining Prop.
300' To Spring
High Way
N
Town of Red River
New Mexico
Kickapoo Mining Co.
1407 Tilden
Wichita Falls, Texas