MME Form 9
Rev. Nov. 65

UNITED STATES
DEPARTMENT OF THE INTERIOR
Geological Survey

OFFICIAL DOCKET FILE Contract No. _____ Docket No. 6814

Application
- [ ] Denied
- [x] Withdrawn (Reopened)

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

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

Folder No. 1:

Left Side

- [ ] Royalty Audits
- [ ] Certification of Discovery
- [ ] Closing Letter
- [ ] Cost Audits
- [ ] Termination Notice or Agreement
- [ ] Recision Notice
- [ ] Assignment of Contract
- [ ] Contract Amendments
- [ ] Contract with all exhibits and annexes
- [ ] Owner's Consent to Lien and Subordination Agreement
- [x] Application and Attachments (Revised 8/7/70)

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
- [x] On-site Exam. Report (Tab) 3/71
- [ ] 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

MME Form 40
(Revised Nov. 68)

Budget Bureau No. 42-R1368
Approval expires Dec. 1971

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

OFFICIAL COPY U. S. G. S. RECEIVED AUG 20 1970

APPLICATION FOR FINANCIAL ASSISTANCE IN MINERALS EXPLORATION

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

RECEIVED AUG 14 1970 Denver, Colorado

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

SOUTHWEST MINERAL COMPANY
1320 West Sixth Street
Tempe, Arizona 85281

APPLICANT DO NOT USE THIS BLOCK

DOCKET NUMBER: 6824
DATE RECEIVED: 8-20-70
REGION: III
DIVISION CODE:

BUSINESS ORGANIZATION *(Check one)*

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

STATE IN WHICH FIRM IS ORGANIZED: Arizoner

LIST CORPORATE OFFICERS OR PARTNERS HERE, IF APPLICABLE

NAME	ADDRESS	TITLE
Veryl L. Peyman	Same	Partner
Gary J. White	Same	Partner
Fred Wood	Same	Partner
Roy L. Worthley	Same	Partner

Revised Application

MINERAL(S) FOR WHICH YOU WISH TO EXPLORE: gold silver ~~uranium, platinum, tourmaline, copper~~

ESTIMATED COST OF PROJECT: $32,500.00

PROPERTY NAME	LOCATION COUNTY	STATE
Southwest Mineral Company	Maricopa	Arizona

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. II). 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 Department of the Interior, U.S. Geological Survey, Office of Minerals Exploration, 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.

8-7-70
DATED

Gary J. White
BY *(Signature)*

President
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 (1) true copies of your letters to credit sources which show date of loan request, amount and terms requested, and proposed use of loan funds and (2) true copies of 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, cluding amended locations, and official place where recorded. State the names by which you know the property.

(c) For all land or mineral rights encumbered or not owned, submit e copies of Lien and Subordination Agreements signed by owner on ME Form 52. If the agreements cannot be obtained, state reasons d whether you can furnish a performance bond.

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.

(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) 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. State your reasons for expecting to find ore.

(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, address, and telephone number of person who will meet him; give directions for reaching the property; and describe accessibility of property and of any mine workings.

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

5. Exploration Work:

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

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

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

6. Experience:

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

7. Estimate of Costs:

Furnish detailed estimates of the necessary costs for time and materials *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 price 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).]

CARPENTER DEVELOPMENT Incorporated

June 24, 1970

Southwest Mineral Company
1320 W. 6th Street
Tempe, AZ 85281

Gentlemen:

After a thorough review of your claims and the work done to date it is my opinion that in view of additional assay analyses made that the program should be altered to go directly into core drilling with assay work as opposed to going into detailed geophysical and geochemical mapping of the area. Your most recent assay has shown uranium to be located in the center of your lease block as well as an appreciable amount of titanium. Examination of your assay results (attached to the end of this letter) indicates titanium to be present at approximately 1.3% and uranium in the amount of .012%. This is quite significant since these samples were taken in the very near surface material and have probably been altered and/or leached considerably. Traces of gold and silver also shown in the material are encouraging since no investigation with depth has been made at this point.

Because of a re-study of the data of the area as well as the additional assays which have been made available, it is therefore this writers' recommendation, that the following program be pursued:

1. One core hole be made in the large magnetic anomaly to a depth of at least 500 feet and assay work be undertaken to determine mineral content of this entire core. If this first hole is indicative of good mineralization in the region, it is then recommended that at least four additional core holes be drilled to the depth indicated to be mineral bearing in the first core hole.

8900 N. Central Ave. · Suite 206
Phoenix, Arizona 85020

Telephone 943·8478

2. If no mineralization is evidenced in this first core hole, it is recommended that the high radiometric anomaly be checked by approximately a 150 to 200' depth core hole for uranium bearing rocks. If no positive results are evidenced out of these first two holes, it is recommended that the drilling project be dropped. If however, mineralization is evidenced, it is recommended that a program be laid out to be drilled to a depth satisfactory and compatible with the first holes mineralization indications.

If you have any further questions please feel free to contact me.

Sincerely,

CARPENTER DEVELOPMENT, INC.

Gene C. Carpenter

Gene C. Carpenter
Consulting Geologist

REGISTERED GEOLOGIST
CERTIFICATE NO.
6949
GENE C.
CARPENTER
Date Signed.....
ARIZONA, U.S.A.

GCC/c

D. ALAN BREESE, SR.
Assayer and Chemist
SINCE 1940
2527 W. WATER AVENUE
DENVER, COLORADO 80219
AREA CODE 303
PHONE 934-3898

March 31, 1970

Spectro-chemical analysis plus fire assay.
Qualitative and Semi-quantitative.

For:
Mr. Roy L. Worthely
1208 W 6th St.,
Tempe, Ariz., 85281.

Copper	0.006
Zinc	0.059
Cobalt	0.005
Nickel	0.013
Rubidium	0.063
Barium	0.056
Strontium	0.003
Titanium	1.3
Zirconium	0.35
Columbium	0.017
Chromium	0.027
Uranium	0.012
Manganese	0.48
Lanthanum	0.018*
Cerium	0.072*
Neodymium	0.027*
Yttrium	0.040

* is rare-earth content.

Major elements.

Silica	38.7
Iron and lesser oxides .	26.0
Alumina	15.6
Calcia	1.7
Magnesia	9.8
	91.8
Phosphorus	1.0
Ignition, ...	6.9
(Volatile matter.)	99.7

Fire assay for gold, silver and platinum.
No values found.

Gold	Trace
Silver	Trace
Platinum	None found.

Shaly clay mixture, possibly some serpentine. Has some better elements showing, but probably not rich enough to be of commercial importance.

Thank you,

Don Breese

East of Shack

FIRST NATIONAL BANK OF ARIZONA

33RD STREET & McDOWELL OFFICE

July 1, 1970

Gary J. White
Southwest Mineral Company

Dear Mr. White:

RE: Loan Request Fon Mining Development

After carefully studying your proposed loan for the purpose of developing mining property in Maricopa County, I regret to inform you that we will be unable to fulfill this request.

As I am sure you are aware, this request would fall in the area of the high risk, capital loan and under present money conditions, we are unable to fill this type of request.

Sincerely,

R. L. Bivens
Manager

RLB/kh

3236 EAST McDOWELL ROAD, P. O. BOX 2629, PHOENIX, ARIZONA 85002, TELEPHONE (602) 271-6501

FIRST NATIONAL BANK OF ARIZONA

LOS ARCOS OFFICE

July 27, 1970

Southwest Mineral Company
336 East Filmore
Tempe, Arizona 85281

Gentlemen:

Regarding your recent request for credit for development of your mining property, I am sorry to inform you that after careful consideration, we will be unable to fill your needs.

As we had previously discussed, this loan would fall in the category of high risk capitol loans. We are unable to make such loans at this time.

Thank you for considering First National Bank of Arizona. If we can be of further service in the future, please do not hesitate to let us know.

Sincerely,

C. Frank Selbe
Manager

CFS:dw

1495 NORTH SCOTTSDALE ROAD, P. O. BOX 3548, SCOTTSDALE, ARIZONA 85257, TELEPHONE (602) 271-1291

GEOLOGIC & FINANCIAL DATA REQUIRED

FOR OME GRANT SUBMITTAL

FINANCIAL ELIGIBILITY

Efforts to obtain financing for doing the exploration work felt necessary on this group of claims are included in this report as figures 1 and 2. Figure 3 is a copy of a letter of submittal to these organizations in request for these funds. It is apparent that these funds were not available through the regular financial sources, therefore an application for OME assistance grant is thereby being made.

The specific breakdown of the proposed exploration budget, will be given in later details in this report.

Southwest Mineral Co. is a general partnership composed of the following people.

Fred Wood
Veryl Peyman
Roy Worthley
Gary White

Do you have a copy of partnership agreement?

The proportion (37.5%) of the money to be furnished ($19,500) by Southwest Mineral Company, as their share of the cost of the exploration work, will be provided by each individual, out of the partnership contributing $2,000 to the operating fund, and the remainder of the funds (approximately $13,500) contributed by N. R. S., a Phoenix based corporation which will provide this exploration money in return for a twenty-five percent (25%) interest in the company.

APPLICANTS RIGHTS IN LAND

The property to be explored, consists of unpatented mineral claims, located on Federal lands. These claims are recorded in the records of Maricopa County, Arizona, and are recorded as follows:

DOCKET #		PAGE #
#1	7981	437
#2	7981	438
#3	7981	439
#4	7981	440
#5	7981	441
#6	7981	442

DOCKET #		PAGE #
#7	7981	443
#8	7981	444
#9	7981	445
#10	7981	446
#11	7981	447
#12	7981	448
#13	7981	449
#14	7981	450
#15	7981	451
#16	7981	452
#17	7981	453
#18	7981	454
#19	7981	455
#20	7981	456
#21	7993	446
#22	7993	447
#23	7993	448
#24	7993	449
#25	7993	450
#26	7993	451
#27	7993	452
#28	7993	453
#29	7993	454
#30	7993	455
#1	7993	444
#2	7993	445

PHYSICAL DESCRIPTION

All details pertaining to the physical description and layout of the property with the respect to present and potential mineral reserves and the work and/or testing, which has previously been done, is found in a report made by Gene C. Carpenter, Registered Consulting Geologist and Geophysicist, from Phoenix, Arizona and presently on file in O.M.E. office and is file number OME 6814.

Additional comments by Mr. Carpenter are attached herewith.

ACCESSIBILITY OF PROPERTY

If an O.M.E. representative wishes to meet a representative of the property, he should contact Gary White at 947-7238 or 276-4270, who will be available for giving directions and/or indicating how to see the property.

EXPLORATION WORK

Complete details of the proposed exploration work is found in the recommendations of the report made by Mr. Carpenter,

which is included in this filing. The work would be conducted under his general supervision and in accordance with the recommendations made in the attached report. All details pertaining to the work, under the OME contract, should it be executed, will be found in those recommendations.

If an O.M.E. Contract is executed, work would be started as soon as all paper work had been cleared away for the granting of the O.M.E. contract. All details are in place and ready for immediate beginnings. It is anticipated that all work for the entire program could be completed within a four to six (4-6) month period.

EXPERIENCE

The experience of Southwest Minerals, as a group, lies in the general realm of mineral exploration experience and claim acquisition. The actual person and/or company who will conduct the exploration work and supervise the general overall operations will be Mr. Gene C. Carpenter, Carpenter Development, Inc. We have attached to this, a copy of his professional resume to indicate his abilities to handle this type of program.

ESTIMATE OF COST

The following is a detailed estimate of all the cost of all of these various and specific exploration operations. It is, of course, the object of this exploration to operate it in a staged system, such that should negative results occur at any point the program would be terminated and no further expenditures made.

A)	Core Drilling Program	$ 40,000.00
B)	Bulldozer Work	7,000.00
C)	Miscellaneous Costs	5,000.00
	TOTAL	$ 52,000.00
	Furnished by Southwest Mineral Co. and Natural Resource Services	19,500.00
	Balance requested in this O.M.E. application (62.5%)	$ 32,500.00

This statement has been prepared and filed by Southwest Mineral Company, and is assumed to be accurate and valid insofar as this can be checked and determined. Date of the statement is July 15, 1970.

SOUTHWEST MINERAL COMPANY

Gary J. White

Gary White

MME Form 40
(Revised Nov. 68)

Budget Bureau No. 42-R1368
Approval expires Dec. 1971

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

OME Region III
RECEIVED
APR 6 X 1970
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 WRITE IN THIS BLOCK
Southwest Mineral Company 1320 West Sixth Street Tempe, Arizona 85281	DOCKET NUMBER 6814 DATE RECEIVED 4-13-70 REGION III DIVISION CODE

BUSINESS ORGANIZATION *(Check one)*

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

STATE IN WHICH FIRM IS ORGANIZED: Arizona

LIST CORPORATE OFFICERS OR PARTNERS HERE, IF APPLICABLE

NAME	ADDRESS	TITLE
Veryl L. Peyman	same	Partner
Gary J. White	same	Partner
Fred Wood	same	Partner
Roy L. Worthley	same	Partner

MINERAL(S) FOR WHICH YOU WISH TO EXPLORE: gold, silver, uranium, platinum, tourmaline, copper,

ESTIMATED COST OF PROJECT: $56,300.00

PROPERTY NAME	LOCATION COUNTY	STATE
Southwest Mineral Company	Maricopa	Arizona

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3/31/70
DATED

Gary J. White
BY *(Signature)*

Gary White - Agent
TITLE

A wilfully false statement or certification to any Department or Agency of the United States Government is a criminal offense.
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Furnish detailed estimates of the necessary costs for time and materials *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).

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(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 price 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).]

GEOLOGIC & FINANCIAL DATA REQUIRED

FOR OME GRANT SUBMITTAL

FINANCIAL ELIGIBILITY

Efforts to obtain financing for doing the exploration work felt necessary on this group of claims are included in this report as figures 1 and 2. Figure 3 is a copy of the letter of submittal to these organizations in request for these funds. It is apparent that these funds were not available through the regular financial sources, therefore an application for OME assistance grant is thereby being made.

The specific breakdown of the proposed exploration budget, will be given in later details in this report.

Southwest Mineral Co. is a general partnership composed of the following people.

Fred Wood
Veryl Peyman
Roy Worthley
Gary White

The proportion (37.5%) of the money to be furnished ($33,780.00) by Southwest Mineral Company, as their share of the cost of the exploration work, will be provided by each individual, out of the partnership contributing $4,000.00 to the operating fund, and the remainder of the funds (approximately $17,780.00) contributed by N.R.S., a Phoenix based corporation which will provide this exploration money in return for a twenty-five percent (25%) interest in the Company.

APPLICANTS RIGHTS IN LAND

The property to be explored, consists of unpatented mineral claims, located on Federal lands. These claims are recorded in the records of Maricopa County, Arizona, and are recorded as follows:

DOCKET #	PAGE #
#1 7981	437
#2 7981	438
#3 7981	439
#4 7981	440
#5 7981	441
#6 7981	442

FIRST FEDERAL SAVINGS

AND LOAN ASSOCIATION OF PHOENIX / 7201 EAST McDOWELL ROAD / SCOTTSDALE, ARIZONA 85257

March 19, 1970

Figure 1

Gary J. White
Southwest Mineral Company

Dear Mr. White,

RE: Loan Request For Mining Development

Relative to your request for a loan for developing mining property in Maricopa County please be advised this type of loan is not eligable under our lending policy.

I am sorry we are unable to comply with your request at this time.

Sincerely,

L. R. Foster
Asst. Vice President

LRF/cs

FIRST NATIONAL BANK OF ARIZONA

LOS ARCOS OFFICE

Figure 2

March 19, 1970

Gary J. White
Southwest Mineral Company

Dear Mr. White,

RE: Loan Request For Mining Development

After carefully studying your proposed loan for the purpose of developing mining property in Maricopa County, I regret to inform you that we will be unable to fulfill this request.

As I am sure you are aware, this request would fall in the area of the high risk, capital loan and under present money conditions, we are unable to fill this type of request.

Sincerely,

C. Frank Selbe
Manager

CFS:ck

1495 NORTH SCOTTSDALE ROAD, P. O. BOX 3548, SCOTTSDALE, ARIZONA 85257, TELEPHONE (602) 271-1291

Figure 3

To Whom It May Concern,

Gentlemen, this letter, is in fact, a request for a loan.

Requesting this loan from you, are the four partners of Southwest Mineral Co., who are Fred Wood, Veryl Reyman, Roy Worthley, and Gary White.

The purpose of this loan is to further develope mining property in Maricopa County.

We strongly believe that this area is well worth the investment, as we beleive there is a large deposit of ore present in the area.

Attached is a proposed program, outlining the different Geological steps to determine the size of the ore body, and it's value.

We would appreciate a hasty reply, as we are anxious to keep moving ahead with the developement of the property.

Thanking You,

Gary J. White

Acting Agent for Southwest Mineral Co.

DOCKET #		PAGE #
#7	7981	443
#8	7981	444
#9	7981	445
#10	7981	446
#11	7981	447
#12	7981	448
#13	7981	449
#14	7981	450
#15	7981	451
#16	7981	452
#17	7981	453
#18	7981	454
#19	7981	455
#20	7981	456
#21	7993	446
#22	7993	447
#23	7993	448
#24	7993	449
#25	7993	450
#26	7993	451
#27	7993	452
#28	7993	453
#29	7993	454
#30	7993	455
#1	7993	444
#2	7993	445

PHYSICAL DESCRIPTION

All details pertaining to the physical description and layout of the property with the respect to present and potential mineral reserves and the work and/or testing, which has previously been done, is found in a report made by Gene C. Carpenter, Registered Consulting Geologist and Geophysicist, from Phoenix, Arizona.

A copy of this report is submitted with this application and statement, to back up the purpose of the exploration program.

ACCESSIBILITY OF PROPERTY

If an O.M.E. representative wishes to meet a representative of the property, he should contact Gary White at 947-7238 who will be available for giving directions and/or indicating how to see the property.

EXPLORATION WORK

Complete details of the proposed exploration work is found in the recommendations of the report made by Mr. Carpenter, which is included in this filing. The work would be conducted under his general supervision and in accordance with the recommendations made in the attached report. All details pertaining to the work, under the OME contract, should it be executed, will be found in those recommendations.

If an O.M.E. Contract is executed, work would be started as soon as all paper work had been cleared away for the granting of the O.M.E. Contract. All details are in place and ready for immediate beginnings. It is anticipated that all works for the entire program could be completed within a six to eight (6-8) month period.

EXPERIENCE

The experience of Southwest Minerals, as a group, lies in the general realm of mineral exploration experience and claim acquisition. The actual person and/or company who will conduct the exploration work and supervise the general overall operations will be Mr. Gene C. Carpenter, Carpenter Development, Inc. We have attached to this, a copy of his professional resume to indicate his abilities to handle this type of program.

ESTIMATE OF COST

The following is a detailed estimate of all the cost of all of these various and specific exploration operations. It is, of course, the object of this exploration to operate it in a staged system, such that should negative results occur at any point the program would be terminated and no further expenditures made.

A) Geologic Mapping	$ 1,600.00
B) Detailed Geophysical Study	5,600.00
C) Geochemical Study	4,480.00
D) Core Drilling Program	64,000.00
E) Bulldozer Work	8,000.00
F) Miscellaneous Costs	6,400.00
TOTAL	$90,080.00
Furnished by Southwest Mineral Co. and Natural Resource Services	33,780.00
Balance requested in this O.M.E. application (62.5%)	$56,300.00

This statement has been prepared and filed by Southwest Mineral Company, and is assumed to be accurate and valid insofar as this can be checked and determined. Date of the statement is March 31, 1970.

SOUTHWEST MINERAL COMPANY

Gary White

Gary White

* * * * * * * * * * * * * * * * *

PROFESSIONAL RESUME

OF

GENE C. CARPENTER

* * * * * * * * * * * * * * * * *

Part A = Personal Data

Part B = Professional and Business Experience

Part C = Publication & Paper List

PART A - PERSONAL DATA

General

Born: Columbus, Ohio

Birth Date: November 2, 1935

Wife's Name: Shirley

Children: Brent & Christine

Education

High School - Central High School, Columbus, Ohio. Graduated in June, 1953, 7th in a class of 205.

College - Ohio State University - BSc in Geology granted in June, 1958. Upper fourth of class.

University of Cincinnati - MSc in Geology granted in February, 1960.

University of Cincinnati - Soil Mechanics in Engineering College (1961).

LaSalle Extension University - First year law (1963-1964).

University of Cincinnati - Study for the PhD Degree during the year 1965-1966.

Arizona State University - Studied Psychology (1970-).

Professional Societies

Registered Consulting Geologist - Arizona
American Association of Petroleum Geologists
Arizona Geological Society
Oil & Gas Association of Arizona
Arizona Academy of Science
Sedimentary Economic Paleontologists & Mineralogists
Ohio Academy of Science
Ohio Geological Society
Ohio Oil & Gas Association
Kentucky Oil & Gas Association

Interests

Flying (private with instrument), photography, music, woodworking and architecture.

PART B - PROFESSIONAL/BUSINESS EXPERIENCE

June, 1967 to Present

CARPENTER DEVELOPMENT, INC., Phoenix, Arizona
President and sole owner. This company was formed after moving to Phoenix for health reasons and after the sale of Shield Petroleum Corporation. The various functions of this company are:

Consulting: C.D.I. undertakes consulting geologic work in minerals and oil and gas problems. This involves geology as well as geophysics. Consulting is not limited to Arizona, but covers all areas where problems are to be solved.

Geophysics: Services are offered in all phases of geophysics, both ground and airborne. C.D.I. maintains an instrumented plane, ready for assignment at anytime.

Production & Development: C.D.I. operates and develops oil and gas producing properties in the Appalachian and Southwest areas. All consulting contracts carry a clause excluding C.D.I. from developing any property in the area where consulting work is done unless given written permission by client.

Research: New exploration methods have been developed and are now being marketed. Of most importance is the "Ra-Mag" study and the MHD system (Molecular Hydrocarbon Detection) for oil and gas exploration.

Minerals: C.D.I. offers claim locating and filing service and management services for mineral properties needing development. This service extends from the locating and laying out claims for clients to management for mining or sale of claims to major producers in the field.

NATURAL RESOURCE SERVICES - Phoenix, Arizona
Secretary-Treasurer, Director and stockholder. Formed in 1969 and publishes a bi-monthly Scout Reprt and Newsletter covering the oil and gas and mineral industry and operates as a contract drilling firm, doing both oil and gas wells and mineral core work. Duties include general management and control of drilling operations.

CABINETPAK Of ARIZONA - Phoenix, Arizona
President and Owner. This business opened in 1970, is a patented system for remodeling kitchens. A franchised territory of central and northern Arizona and portions of California and New Mexico.

November, 1965 to June, 1967

SHIELD EXPLORATION & DEVELOPMENT COMPANY, Cincinnati, Ohio
President and chief geologic consultant. This company is a wholly owned division of Shield Petroleum Corporation and acquired all of the business of the former G. C. Carpenter & Associates in November, 1965. Duties of Mr. Carpenter included managing all geologic consulting activities and running the two drilling rigs owned by SEDCO.

Drilling Activities included drilling oil, gas and some water wells. Depth ranges encountered were from 500' to 4,000'. Contract drilling was done for Parent company as well as all other interested clients. Duties included supervision of all drill crews as well as responsivility of all technical operations pertaining to drilling, completing and "fishing" on all drilling operations.

Geologic consulting activities included selling and doing all consulting work either singularly or with one or two other geologists employed as a staff. Geological consulting is undertaken in the areas of groundwater, oil & gas exploration, geophysics, engineering geology, gas storage - both aquifer and cavern, mineral resource evaluation, air photo analysis, underground construction and all related areas of geology.

March, 1965 to June, 1967

SHIELD PETROLEUM CORPORATION, Cincinnati, Ohio
President and Chairman of the Board. This is the parent company of SEDCO. Duties in this company involved the acquisition of potential producing oil and gas property, the development of these properties, management of the production after found and all of the necessary details of running the business and financing the programs through associate investors.

September, 1964 to June, 1967

UNIVERSITY OF KENTUCKY, Covington, Kentucky
Part Time Faculty. Service here was for the teaching of two classes of physical and historical geology and the associated lab. Both classes were freshman and sophomore level classes.

November, 1963 to November, 1965

G. C. CARPENTER & ASSOCIATES, Cincinnati, Ohio
Owner and chief geologic consultant with a full time associate and another geologist utilized whenever work load demanded. Consulting activities engaged in were the same as those outlined above for SEDCO.

September, 1964 to March, 1965

MORGAN PETROLEUM CORPORATION, Akron, Ohio
Executive Vice President. Duties included investment sales and management of operations and properties. This position held in addition to consulting business outlined above. Intention was to buy out company but later formed Shield Petroleum Corporation when Morgan was determined to be a greater risk than desired.

February, 1960 to November, 1963

EARTH SCIENCE LABORATORIES, INC., Cincinnati, Ohio
Co-Founder, manager and chief geologic consultant. Geologic consulting was done by Mr. Carpenter and a staff of four geologists. Projects included all areas of geological work including gas storage, groundwater, geophysics, engineering geology, oil and gas geology, air photo work, mineral recource evaluation and all associated activities.

During this period of employment, duties also included set-

ting up a complete engineering - soils testing lab and drilling facility as well as concrete testing facilities. Management of this phase of the operation lasted only until a permanent manager could be acquired to take over.

A third area of endeavor was the acquisition of rotary drilling equipment and managing of rigs, 24 hours a day for several months while a manager for this operating was found.

October, 1959 to February, 1960	UNIVERSITY OF CINCINNATI, Cincinnati, Ohio Research Assistant to Dr. H. L. Sunderman. Duties included help with research projects and teaching Engineering Geology Laboratory.
August, 1959 to February, 1960	GEOTECHNIC ASSOCIATES, Cincinnati, Ohio Field Geologist. Duties included all phases of field geology associated with consulting work in groundwater and mineral resource projects.
June, 1959 to August, 1959	ALFORD ENGINEERING COMPANY, Cincinnati, Ohio Layout man and draftsman. Work was on the B-58 jet engine contract for General Electric Corporation.
September, 1958 to June, 1959	UNIVERSITY OF CINCINNATI, Cincinnati, Ohio Research Assistant. During this time worked with Dr. L. H. Larsen on various of his mineralogical projects.
May, 1958 to September, 1958	SELF-EMPLOYED, Columbus, Ohio Did geologic consulting work for groundwater projects and oil and gas prospects during this period.
September, 1945 to May, 1958	SURFACE COMBUSTION CORPORATION, Columbus, Ohio Technical Writer and Illustrator. Duties included layout, writing and preparation of government specifications, maintenance and assembly manuals for aircraft heaters and the similar manuals for home heating and cooling equipment. Preparation of copy and illustrations for all advertising material was also one of the duties.
May, 1953 to September, 1954	COLUMBUS GLASSHEAT CORPORATION, Columbus, Ohio Design and Sales. Duties included the design, calculation and layout of electric heating systems for home and commercial use and the sales of these systems.
Summer - 1952	THOMPSON METAL FABRICATING CORPORATION, Columbus, Ohio General Office. Duties included cost accounting, payroll records, all invoicing and some design layout for jigs & fixtures.
Summer - 1951	THOMPSON TOOL CORPORATION, Columbus, Ohio General Draftsman for tool & die design shop.

Misc. Experience

1950 to 1956	During this period, Mr. Carpenter led a small orchestra and fronted other types of entertainment acts, playing for shows and dances two or three nights a week.

June, 1951 to September, 1952	COLUMBUS, OHIO RECREATION DEPARTMENT Square dance instructor.
1951 to 1953	FREE LANCE PHOTOGRAPHER, Columbus, Ohio While in high school, worked as a photographer for the City of Columbus and for the Board of Education as well as two of the local schools.
Spring - 1964	OHIO COLLEGE OF APPLIED SCIENCE, Cincinnati, Ohio Instructor. Duties were to teach engineering drafting as regular staff member was ill. Assignment was for one semester only to help fill in for a friend.

PART C - PUBLICATION & PAPER LIST

1. Carpenter, Gene C., 1958, Geology of the Manti Canyon Area, Utah; (BSc Thesis), University Microfilm, Ohio State University.

2. Carpenter, Gene C., 1960, Insoluble Residue Techniques in a Portion of the Ordovician Cynthiana Formation; Unpublished MSc Thesis, University of Cincinnati.

3. Carpenter, Gene C. and Schmidt, Ronald G., 1960, Insoluble Residue as a Correlation Tool in the Ordovician Cynthiana Formation; Presented before Geological Socient of America, SE Section, Lexington, Kentucky, Bull., Vol. 71, P. 2014.

4. Carpenter, Gene C., 1961 Ordovician Chazyan Series in Northcentral Kentucky; Presented before Geological Society of America, SE Section, Knoxville, Tennessee, Abs., Geological Society of America, Special Paper No. 68.

5. Carpenter, Gene C. and Schmidt, Ronald G., 1962, Insoluble Residues in a Portion of the Ordovician Cynthiana Formation, Northcentral Kentucky; Journal of Sedimentary Petrology, Vol. 32, No. 3, 423-434, September.

6. Carpenter, Gene C., and Hester, Norman C., 1963, Mapping Buried Topography by Geophysical Techniques; Presented before Ohio Academy of Science, Wilberforce, Ohio.

7. Carpenter, Gene C., and Bassarab, Dennis R., 1964, Case Histories of Seismic and Resistivity Surveys in Groundwater Studies; Ground Water, January, 1964

8. Carpenter, Gene C., and Bassarab, Dennis R., 1964, The Refraction Seismograph in Sewer and Pipeline Construction - An Economic Study; Water & Sewage Works Journal, April, pp. 199-202.

9. Carpenter, Gene C., 1964, Geologic Controls in Underground Gas Storage; Presented before Ohio Academy of Science. Cleveland, Ohio.

10. Carpenter, Gene C., The Lower Dolomite Member of the Ordovician Chazy Limestone and the St. Peter Sandstone of Northcentral Kentucky and Southwestern Ohio; Ohio Journal of Science, March, 1965, pp. 85-94.

11. Carpenter, Gene C., 1966, General Geology of Ohio as Applied to Oil and Gas Exploration; Presented before Applachian Oil and Gas Socienty, Harrisburg, Pennsylvania.

12. Carpenter, Gene C., 1969, New Methods of Molecular Hydrocarbon Detection; Presented before Southeast Oil and Gas Association, Lexington, Kentucky

CARPENTER DEVELOPMENT Incorporated

PART I

Geologic Evaluation

Of

SOUTHWEST MINERALS CLAIM GROUP

MARICOPA COUNTY, ARIZONA

Prepared For

Southwest Minerals Company

Phoenix, Arizona

RECEIVED
R 13
MINERALS CODE

8900 N. Central Ave. • Suite 206
Phoenix, Arizona 85020

Telephone 943·8478

SOUTHWEST MINERALS CLAIM GROUP

GENERAL GEOLOGIC EVALUATION

INTRODUCTION

The services of Gene C. Carpenter, Consulting Geologist, were retained to do a 'Preliminary Geological Evaluation' of the Southwest Minerals Claim Group. This Claim Group, is composed of approximately thirty two (32) claims, and is located about one (1) mile from Mine Mountain, in Maricopa County. There are no specific survey lines run into this location, therefore, no Range-Township designation may be given. Figure 1 shows the general location of these claims with respect to the topographic coverage present in the area.

The Preliminary geologic evaluation is Part I of the report, and Part II consists of a preliminary airborne magnetic investigation of the Claim Group.

GENERAL GEOLOGY

The general geology of the area indicates that the primary rock type is a Pre-Cambrian, coarsely crystalline granite, which has been highly mineralized, in part. The entire area is crossed with many veins and dikes of quartz and other minerals as well as some shists layers in the general area.

Figure 2 is a geologic map showing the general disposition of the rocks in the area from presently known data, however, no detailed geologic field work has been undertaken at this point.

GENERAL EXPLORATION RESULTS

Exploration in the area has yielded potential mineralization of varying kinds. Uranium has been discovered in the ad-

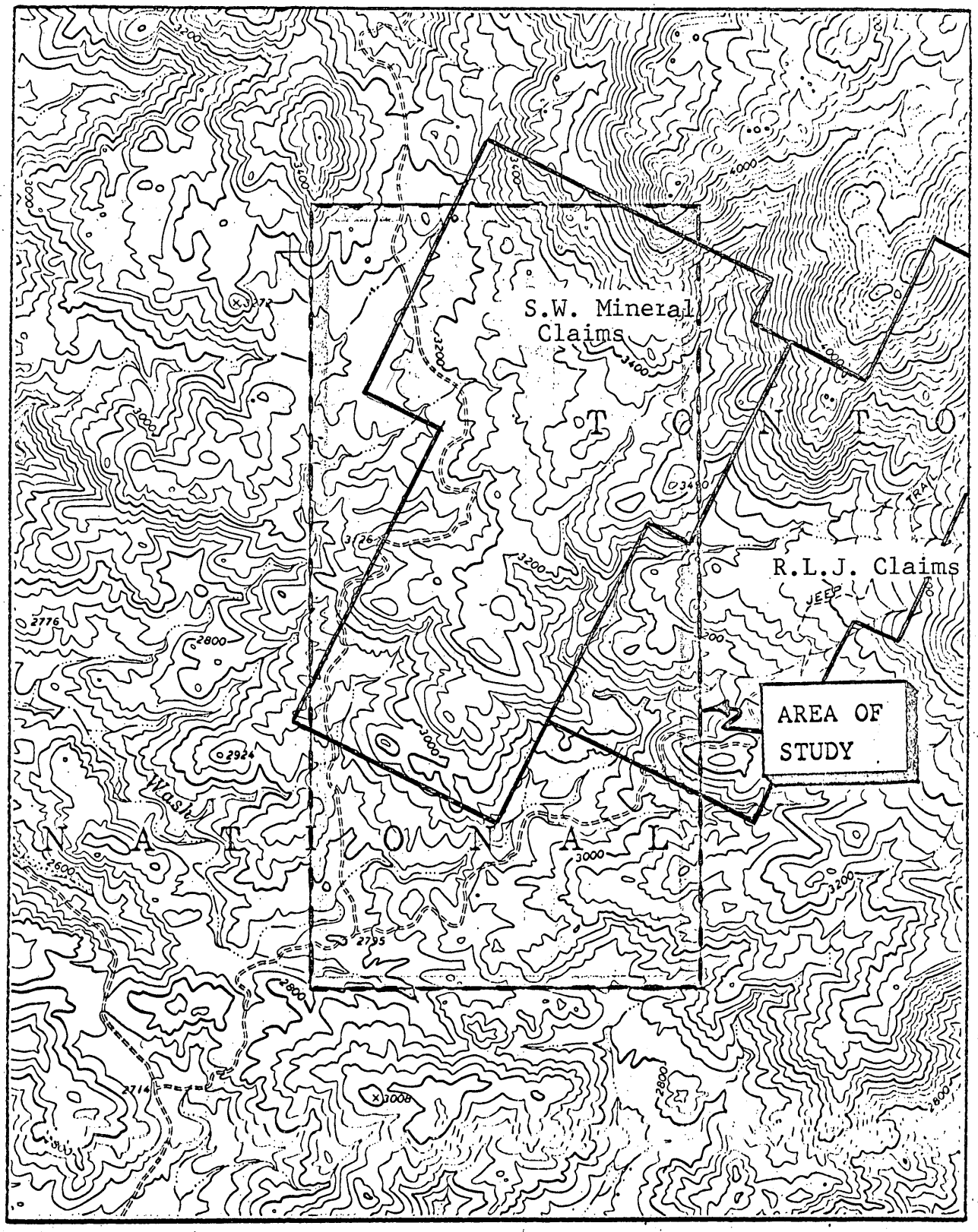


FIGURE 1.- GENERAL LOCATION MAP

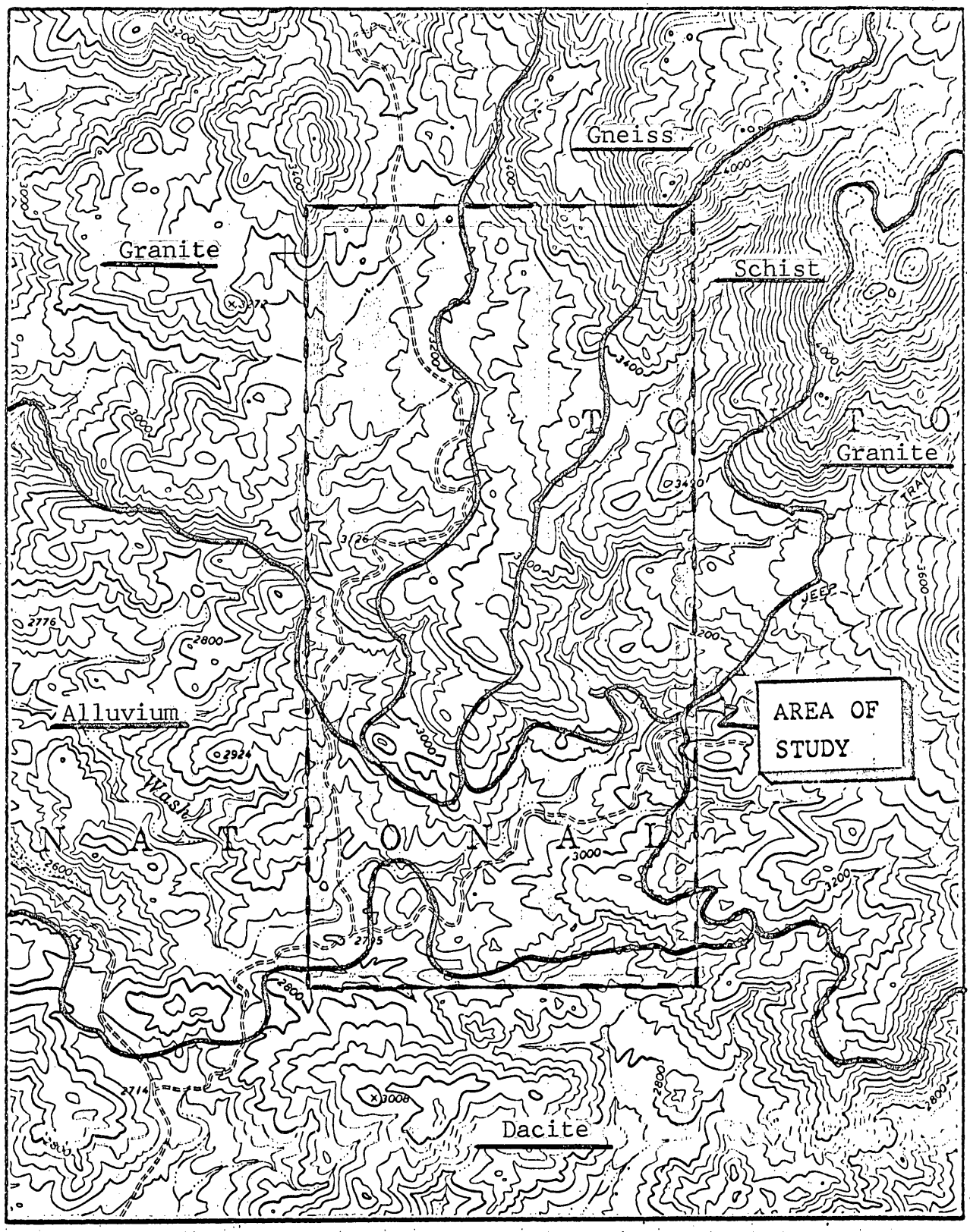


FIGURE 2.- GENERALIZED GELOGY

joining claims. Figures 3 & 4, are copies of typical assays on the adjoining claim group, showing uranium potential. This same formation is found under the Southwest Minerals Claim Group and as the radiometric survey indicates, in Part II, the uranium content should be higher under the Southwest Claim Group.

Traces of gold, silver and platinum (see Figure 5) have been found under the Southwest Minerals Claim Group, as well as titanium, yttrium, cerium, chromium, lithium, and some other associated elements.

Black tourmaline of a grade sufficient to be of interest to several electronic firms (i.e. Sylvania) because of its piezo qualities, has been found associated with the schist (Figure 2.). Details of the magnetic study are discussed later, however, there is an indication of the presence of some metallic sulfide body.

D. ALAN BREESE, SR.

Assayer and Chemist

SINCE 1940

2527 W. WATER AVENUE

P. O. BOX No. 19013

DENVER, COLORADO 80219

FIRE ASSAY
$2.00 UP

AREA CODE 303
PHONE 934-3898

WET ASSAY
$1.50 UP

REPORT ON DETERMINATIONS MADE FOR--- Mr. Frederic M. Rothermel
RLJ Corp., 3302 West Manor Dr.,
Phoenix, Ariz., 85014 April 1, 1969.

SAMPLE MARKS	METALS	Amount per Ton Ozs. Hds.	PER CENT	Value per Ton Dollars Cents
1 sample for U_3O_8 # "C"	Uranium as U_3O_8	.....	0.29	

GOLD AT _____ PER OUNCE SILVER AT _____ PER OUNCE
LEAD AT _____ PER UNIT COPPER AT _____ PER UNIT
ZINC AT _____ PER UNIT

By D. A. Breese, Sr.

FIGURE 3.

ARIZONA TESTING LABORATORIES

A DIVISION OF CLAUDE E. McLEAN & SON LABORATORIES, INC.
PHONE 254-6181 817 WEST MADISON ST. P. O. BOX 1888 PHOENIX 85001

Chemists . . . Engineers

FIGURE 4.

For Mr. Fred Rothermel
3814 North 56th Drive
Phoenix, Arizona 85031

Date August 11, 1967

Sample of Ore

Received: 8-9-67

Submitted by: Same

ASSAY CERTIFICATE

Gold figured at $ 35.00 per ounce

Silver figured at $ 1.85 per ounce

LAB. NO.	IDENTIFICATION	GOLD		SILVER		PERCENTAGES	
		OZ. PER TON	VALUE	OZ. PER TON	VALUE	URANIUM OXIDE	
1628	No Mark					0.27 %	

Respectfully submitted,

ARIZONA TESTING LABORATORIES

Claude E. McLean, Jr.

OUR MOTTO: — WHAT THERE IS IN IT, NO MORE NO LESS.

EDMUND E. PHILLIPS, Vice-Pres.—Gen. Mgr.

M. E. PHILLIPS, Secretary

THE COLORADO ASSAYING COMPANY

(INCORPORATED)

ASSAYERS AND CHEMISTS

303—623-2842 2244 BROADWAY

DENVER, COLORADO 80201

April 22, 1969.

REPORT ON DETERMINATIONS MADE FOR—

Mr. Roy L. Worthley,
1208 W. 6th St.,
Tempe,
Ariz. 85281

SAMPLE MARKS	METALS	Amount per Ton Ozs.	Amount per Ton Hds.	PER CENT		Value per Ton Dollars	Value per Ton Cents
	Platinum (fire)		0.005				

FIGURE 5.

GOLD AT_____PER OUNCE SILVER AT_____PER OUNCE

LEAD AT_____PER UNIT COPPER AT_____PER UNIT

THE COLORADO ASSAYING COMPANY

By Ed Phillips

CARPENTER DEVELOPMENT
Incorporated

PART II

"AIRBORNE"

MAGNETOMETER STUDY

Of

SOUTHWEST MINERALS CLAIM GROUP

MARICOPA COUNTY, ARIZONA

Prepared For

Southwest Minerals Company

Phoenix, Arizona

8900 N. Central Ave. • Suite 206
Phoenix, Arizona 85020
Telephone 943·8478

AIRBORNE

MAGNETIC INVESTIGATION
of the
SOUTHWEST MINERALS CLAIM GROUP

INTRODUCTION

Carpenter Development, Inc., was retained to study the Southwest Minerals Claim Group, by conducting airborne geophysical surveys on same. The work consists of airborne magnetics and radiometrics. All data were gathered simultaneously along the flight lines in the area of interest.

This group of claims and proposed additional claims, is located in Maricopa County, approximately one (1) mile from Mine Mountain. Topographic coverage of the area is very good, however, lines or potential and present claims. Figure 1 shows the location covered by this particular study.

DATA PROCEDURES

Data was gathered in the field by simultaneous recording processes for both instruments (magnetic and radiometric) operating simultaneously from an airborne platform. Primary flight lines were conducted in a north-south orientation so as to attain maximum data on the formations which appear to lie predominately east-west in the area. The flight lines were positioned at approximately 1,000' intervals with a flight altitude of 700' above ground level.

The systems utilized for this work are custom built geophysical apparatus based on the primary designed functions of the Sharpe Magnetometer and Precision Radiation scintillation equipment. All equipment has been custom designed and transistorized for airborne use and for the simultaneous recording of all data in a continuous profile manner.

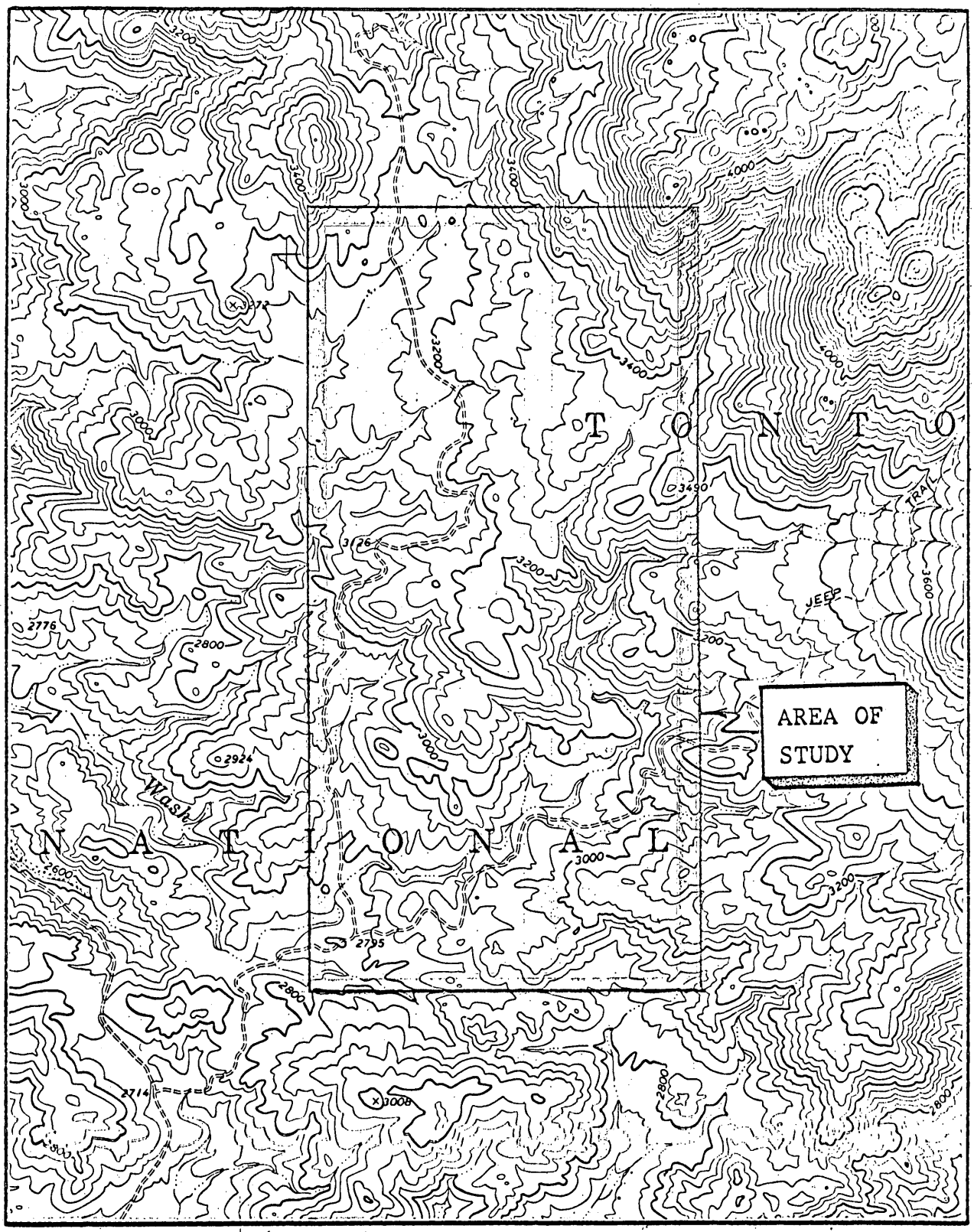


FIGURE 1.- GENERAL LOCATION MAP

The nature of the sensing systems are such that true magnetic north orientation of the equipment is not necessary. The magnetic portion of the system is designed to give the relative magnetic variations of the total vertical magnetic field rather than an absolute value for the vertical field. Since these data are acquired for the purpose of economic evaluation and exploration work, it is not necessary that the absolute value for the vertical intensity be measured, only the ralative changes of same, which are significant when determining mineralization zones and potential economics of a mineral deposit.

All data was brought back to the Phoenix office, and necessary corrections for terrain, diunal variations, and instrument corrections were applied before data was reduced through computerized technique formulas for plotting.

No geologic evaluation or study has been made on the ground and any comments made pertaining to same, are made from a general knowledge of the area and geologic maps for the region, as opposed to a detailed study of the geologic setting on the ground.

RESULTS OF SURVEY

Vertical Intensity Magnetics: The results of the magnetic portion of the survey are presented in Figure 2. This figure is a plot of the 5th derivative residual total vertical magnetics, as computed and corrected for this area.

Figure 2 is of a larger scale than the general location map in Figure 1, necessitated by plotting scales with respect to the data as gathered in the air. This Figure doe indicate that there are a couple of highs in the area of 1,500 gammas anomaly. This is a rather large amount of magnetic residual, which would indicate the presence of a high magnetically susceptible rock. This amount of variation is probably caused by the presence of sulfide mineralization in the area. The specific type of mineralization cannot be specified other than to

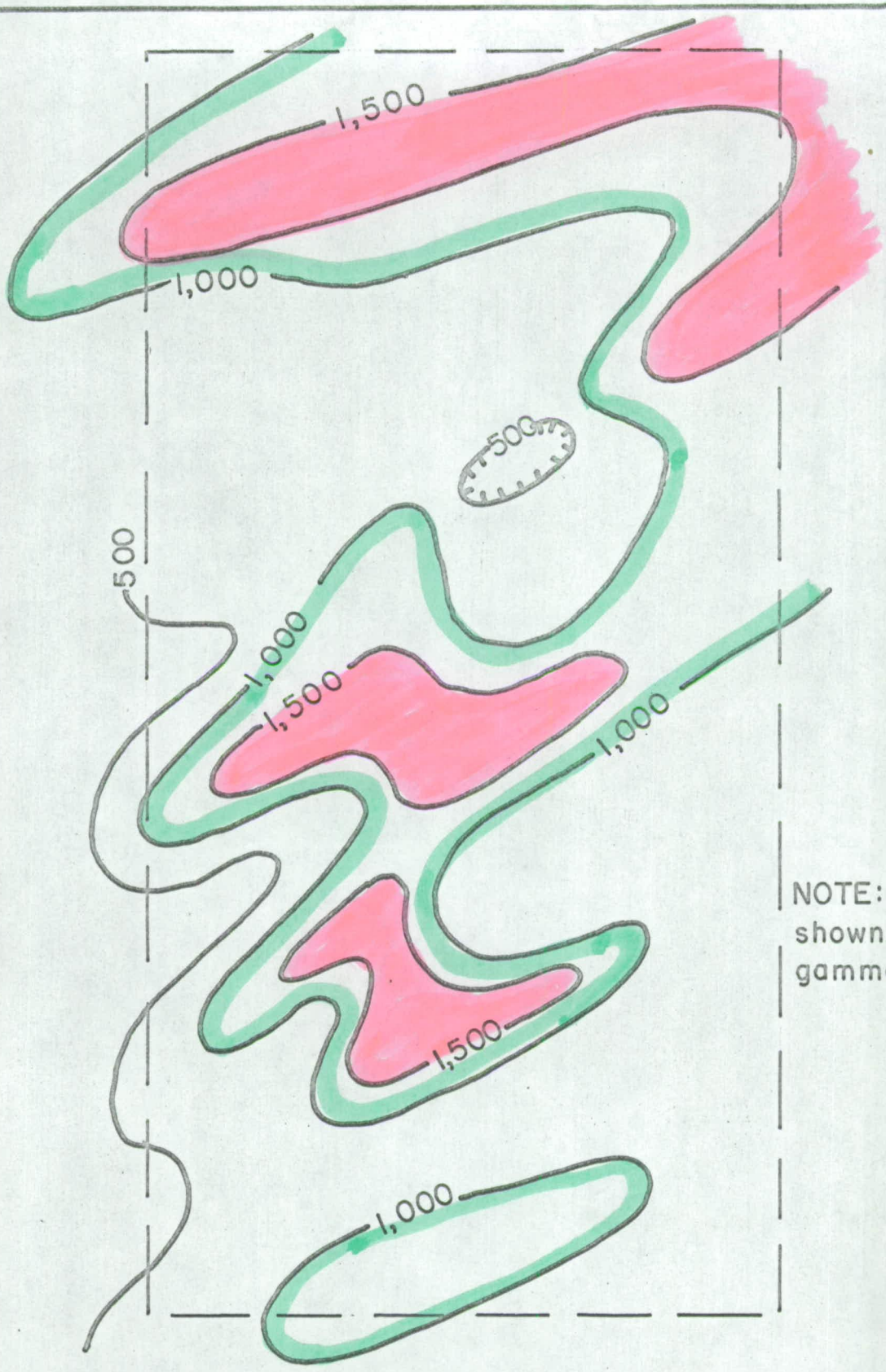


FIGURE 2.- 5th DERIVATIVE MAGNETICS

SCALE 1" = 1/4 mile

say that it is probably of a metallic sulfide origin.

The areas shown in 'pink' in Figure 2, are of interest for potential sulfide development and should be thoroughly checked in the field and later, through core-drilling programs. The area indicated to be underlain by an anomaly of 1,000 to 1,500 gammas is probably of the same general mineralization type, however, of a less concentrated nature.

From the nature of the material, as it is indicated in the magnetic data, it would appear that this is concentrated in zones or probably dikes, with an east-northeast and west-southwest orientation. At this point, it is not known whether this is mineralization in a specific formation or shows that way because of structure or whether this is mineralization along dikes which have this orientation. This would have to be determined on the ground and by core-drilling.

Radiometric Data: The radiometric data are plotted and presented in Figure 3, for the area of study. These data represent the residual radiometric data corrected to an assumed zero datum point. These datum do not represent the total radiation mineralization and rock types found in the area. Values of .030 MR per hour in this instance are considered important areas and values between point .025 and .030 are considered as marginal potential, depending upon the area and mineralization type.

From a study of Figure 3, it can be seen that there is a very high concentration of radioactive material in the northeast portion of the area of study. Because of the pattern of this material in the radiation figure, it is felt that the material is primarily confined into an east-west trending zone along this area and spread out because of erosional processes to the south of this east-west trending unaniferous zone. This trend is noted on the Figure 3, by the dashed line. It is felt that there is some unaniferous bearing ore along this contact line and probably in a direction on either side of same.

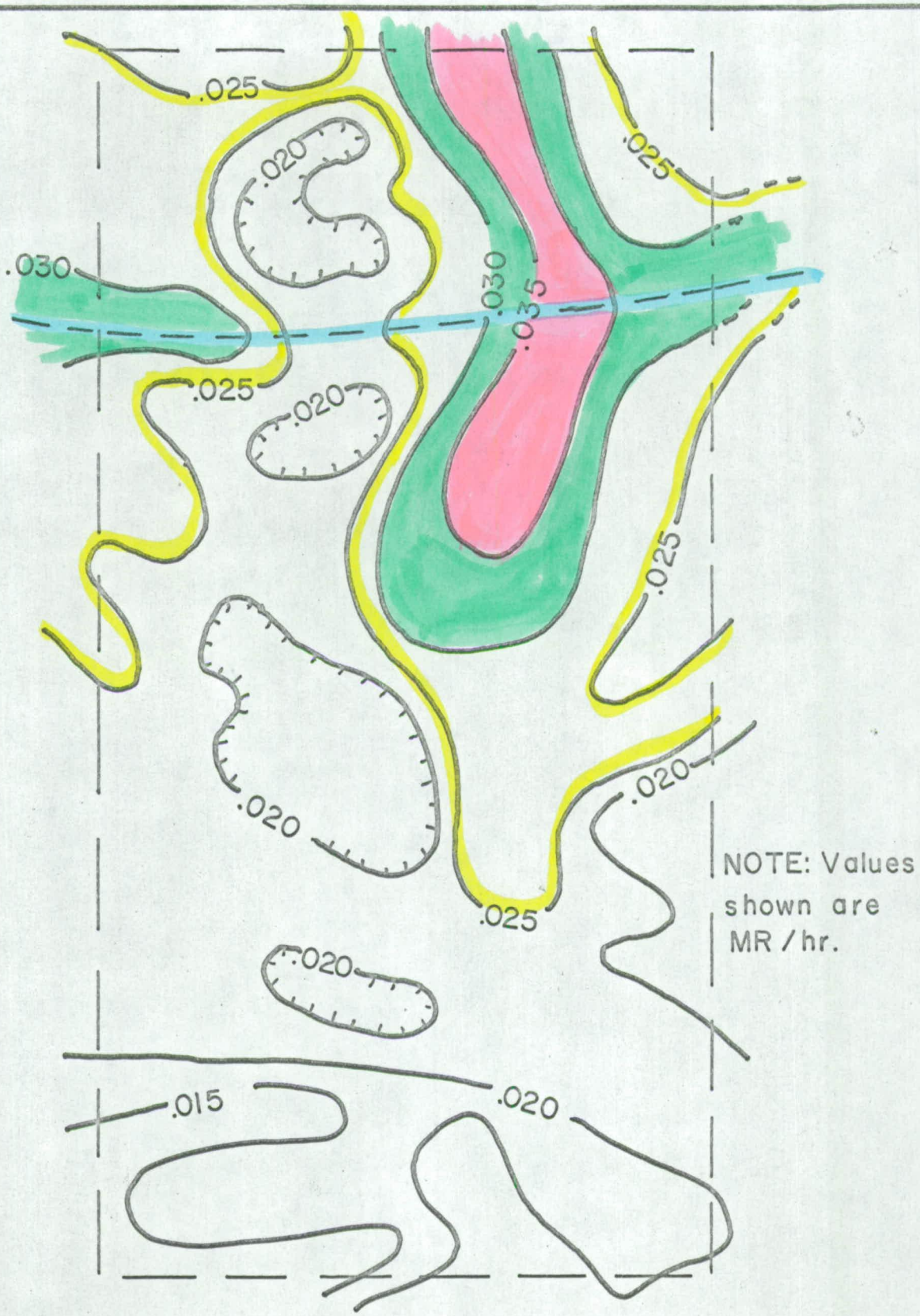


FIGURE 3. RADIOMETRICS

SCALE 1" = 1/4 mile

CONCLUSIONS

After a thorough study of all data involved, the following conclusions have been derived for the Southwest Minerals Claim Group:

1.) There are several significant areas of mineralization in the general area, and exhibit maximum anomalies of 1,500 gammas.

2.) It is felt that the mineralization is of a metallic sulfide nature because of the high residual amount of magnetism found in the area.

3.) The mineralization is occurring in a east-northeast, west-southwest direction along either intruded dikes or formations which are lying in this manner because of structural movement.

4.) It is felt that there is also an association of uranium bearing ore connected with the northern most sulfide anomaly, and located in the same general orientation, however, just to the immediate south of the first zone. In essence, there appears to be either two (2) formations which are mineral bearing, one being rich in sulfide ore, and the other one in some type of uraniferous bearing material.

5.) It is also the conclusion of this writer that these amounts indicate anomalies great enough to warrant further detailed investigation as potentially economic.

PART III

CONCLUSIONS AND RECOMMENDATIONS

Of

SOUTHWEST MINERALS CLAIM GROUP

MARICOPA COUNTY ARIZONA

Prepared For

Southwest Minerals Company

Phoenix, Arizona

CONCLUSIONS AND RECOMMENDATIONS

of the

SOUTHWEST MINERALS CLAIM GROUP

CONCLUSIONS

After a study of the preliminary geologic data for the area, and the airborne radiometric and magnetic work, combined with the detailed analysis on the adjoining claims, it is the conclusion of this writer, that there is a potential for mineralization to be developed on the property in the form of uranium, platinum, tourmaline, rare earths, and perhaps some other types of mineralization, as yet undetected. The radiometric readings on this area were higher than on the adjoining area where reasonable amounts of uranium oxide were determined by the A.E.C., so that this area should be of potential for uranium exploration and development.

RECOMMENDATIONS

IT IS THEREFORE RECOMMENDED that a detailed step by step program of investigation be undertaken, such that each step leads into the next, and should negative results arise in any one step, the rest of the program may be terminated without excess expenditures of monies. The recommended program is as follows:

A) Geologic Mapping: The area and claims would be completely mapped in detail for all surface, geology, and structural on a large compatible scale.

COST..... $ 1,600.00

B) Detailed Geophysical Study: Detailed radiometric and magnetometer studies would be made of claim area on map scale in "A" above.

COST..... 5,600.00

C) Geochemical Study: Complete samples for geochemical study to be acquired on a grid system for claim area and all assay work included.

COST ..... $ 4,480.00

D) Core Drilling Program: After all work in A, B, and C, have been completed, and if results are still positive; a core drilling program will be laid out utilizing the results of parts of A, B, and C, and consisting of approximately 3,000 feet of core drilling, all assay work on cores and all geologic surveys necessary to this portion of the program.

COST 64,000.00

E) Bulldozer Work: All necessary dozer work to construct drill roads, drill sites, and any other construction work necessary to exploration.

COST 8,000.00

F) Miscellaneous Costs: Includes cost of report preparation and compilation of data from program, all miscellaneous costs of supervision, of supplies, exploration, and other items necessary to the exploration of the program, but not included in previous section.

COST 6,400.00

TOTAL $90,080.00

Respectfully submitted,
CARPENTER DEVELOPMENT, INC.

Gene C. Carpenter
Consulting Geologist/Geophysicist

REGISTERED GEOLOGIST
CERTIFICATE NO.
6949
GENE C.
CARPENTER
Date Signed.....
ARIZONA, U.S.A.

March 31, 1970

MME Form 7
(2/63)

OFFICIAL FILE COPY

Date	Surname	Code
4/5/71	Emerick	120
4/6/71	Kreisgaard	
		130
		220

APR 6 1971

AIRMAIL

Mr. Gary J. White
Acting Agent for
Southwestern Mineral Company
1320 West Sixth Street
Tempe, Arizona 85281

Re: OME-6814 (Gold-Silver, et al.)
Southwest Mineral Company
Southwest Minerals Claims Group
Maricopa County, Arizona

Dear Mr. White:

A careful review of your application for financial assistance to explore the subject property and other information available to us indicates that the probability of disclosing significant reserves of gold, silver and other minerals on your property is not sufficiently promising to justify Government participation in the proposed exploration. Accordingly, we regret to inform you that your application for assistance is denied.

We wish to thank you for your interest in the minerals exploration program and for bringing your property to our attention.

Sincerely yours,

William L. Emerick

William L. Emerick
Assistant Chief
Office of Minerals Exploration

cc: Director's Reading File
Mineral Resources File
OME Docket
OME Reading File
OME Region III
Mr. Emerick
130

WLEmerick/bsl 4/5/71

MME Form 7
(2/63)

OFFICIAL FILE COPY

Date	Surname	Code
4/5/71	Emerick	120
		220

April 5, 1971

Memorandum

To: The File

From: William L. Emerick
Office of Minerals Exploration

Subject: OME-6814 (Gold-Silver, et al.)
Southwest Mineral Company
Southwest Minerals Claims Group
Maricopa County, Arizona

Justification for Denial of Application

The Applicant proposed a core drilling program based on geophysical anomalies to explore for gold, silver, uranium and other minerals. Total estimated cost of the proposed work amounted to $32,500.00.

The Field Officer found upon a field examination that no geologic mapping or preliminary trenching or drilling had been done to test the geophysical anomalies or to establish specific targets for exploration. He concluded that the property was still in the prospect stage and not eligible for OME assistance and therefore, the application should be denied.

I concur with his recommendation after reviewing the application and the report of field examination.

William L. Emerick
William L. Emerick

cc: Director's Reading File
Mineral Resources File
OME Docket
OME Reading File
Mr. Emerick

WLEmerick/bsl 4/5/71

United States Department of the Interior

GEOLOGICAL SURVEY
Denver Federal Center
Denver, Colorado 80225

IN REPLY REFER TO:

Office of Minerals Exploration
Building 53 Room 200

March 23, 1971

Memorandum

To: Chief, Office of Minerals Exploration

From: Field Officer, Region III

Subject: OME-6814 (Gold, Silver, Uranium and others)
Southwest Mineral Company
Southwest Minerals Claim Group
Maricopa County, Arizona

Transmitted herewith is a memorandum report of examination on the subject property. The application was received April 6, 1970, referred to Washington April 10, 1970, then was referred to the field September 3, 1970. After some exchange of correspondence with the applicant a field examination was made January 20 and 21, 1971. The examining geologist was accompanied during the field examination by Gary J. White, President, Veryl L. Peyman, Fred Wood and Roy L. Worthly, partners. The applicant's consulting geologist, Gene C. Carpenter also accompanied J. William Hasler, the examining geologist.

J. William Hasler

J. William Hasler,
Field Officer, Region III
Office of Minerals Exploration

UNITED STATES

DEPARTMENT OF THE INTERIOR

ROGERS C. B. MORTON, SECRETARY

U. S. GEOLOGICAL SURVEY

OFFICE OF MINERALS EXPLORATION

REPORT OF EXAMINATION

REGION III

On-Site Exam Report

OME-6814 (GOLD, SILVER, URANIUM AND OTHERS)

SOUTHWEST MINERAL COMPANY

MARICOPA COUNTY, ARIZONA

By

J. WILLIAM HASLER

GEOLOGIST

MARCH 1971

The Property

The applicant's claims lie in unsurveyed section 8 and 9, T. 4 N., R. 9 E. Gila and Salt River Meridian, Maricopa County, Arizona. See Figure 1. The applicant has located and owns 32 unpatented mineral claims that are on record in Books and/or Docket Numbers 7981, and 7993 in the Maricopa County Courthouse, Phoenix, Arizona.

The property is accessible from Phoenix, Arizona by pickup, and/or four-wheel drive vehicles, via Scottsdale, Arizona then northeasterly on Arizona State Highway 87, towards Sunflower, Arizona for approximately 40 miles, then turn right off highway 87 on an unimproved road into the Mine Mountain area for approximately 2-1/2 to three miles.

Geology

The area is underlain by Precambrian Granite and related crystalline rocks, that have been moderately altered, and contains several quartz veins, and other dike material. There have been traces of gold, silver, and uranium found within the area, as well as titanium, yttrium, cerium, chromium, lithium and other associated elements reported by the applicant. Some black tourmaline of a grade sufficient to be of interest to several electronic firms because of its piezo electric qualities have been found in the associated schists.

Exploration Work Completed by Applicant

The applicant, in addition to having had some geophysical work done by a geologic consultant, had sunk two test pits on the footwall, and hanging wall of a quartz vein that strikes S. 78° E., and dips west 70 degrees, on the northeast corner of the Oro No. 3, and on the southeast corner of the Oro No. 1 claims. Figure 1. The quartz vein consists of a white to gray sugary iron-stained quartz and ranges from 4 to as wide as 10 feet, and is traceable for several thousand feet into the adjacent property. The quartz contains no particular visible minerals listed in the application, and the applicant furnished no assays from any of the vein material excavated from the two test pits.

The geophysical work performed by Mr. Gene C. Carpenter, the applicant's consulting geologist, indicated an anomalous area in the most northeasterly portion of claims 16, 17, 18, 19, 20, 21, and 22 that may reflect a buried structure trending about S. 75° W. (Figures 1, 2 and 3).

The applicant's consulting geologist, Gene C. Carpenter, indicated in his report that a structure containing uranium-bearing material trends into the Southwest Minerals Claim Group from the northeast and by completing a magnetometer survey shows an area indicated by 1,500 gammas on Figure 2 -- "5th Derivative Magnetic" accompanying the application, and Figure 3, "Radiometrics" also indicates some radiometric data corrected for an assumed datum point.

"These datum do not represent the total radiation mineralization and rock types found in the area. Values of .030 MR per hour in this instance are considered important areas and values between point .025 and .030 are considered as marginal potential, depending upon the area and mineralization type."

"From a study of Figure 3, enclosed, it can be seen that there is a very high concentration of radioactive material in the northeast portion of the area of study. Because of the pattern of this material in the radiation figure, it is felt that the material is primarily confined into an east-west trending zone along this area and spread out because of erosional processes to the south of this east-west trending uraniferous zone. This trend is noted on the Figure 3, by the dashed line. It is felt that there is some uraniferous bearing ore along this contact line and probably in a direction on either side of same."

The consultant has concluded the following as a result of his preliminary geophysical investigation of the subject property:

"1. There are several significant areas of mineralization in the general area, and exhibit maximum anomalies of 1,500 gammas."

"2. It is felt that the mineralization is of a metallic sulfide nature because of the high residual amount of magnetism found in the area."

"3. The mineralization is occurring in a east-northeast, west-southwest direction along either intruded dikes or formations which are lying in this manner because of structural movement."

"4. It is felt that there is also an association of uranium-bearing ore connected with the northernmost anomaly, and located in the same general orientation, however, just to the immediate south of the first zone. In essence, there appears to be either two (2) formations which are mineral bearing, one being rich in sulfide ore, and the other one in some type of uraniferous-bearing material."

"5. It is also the conclusion of this writer that these amounts indicate anomalies great enough to warrant further detailed investigation as potentially economic."

Conclusions and Recommendations

The findings resulting from the consultant's work, in the opinion of the examining geologist, are only of an anomalous nature, and in some way might warrant further investigation, however, the property is still very much in the prospect stage since there are no actual target areas, and therefore is not eligible for exploration assistance under the Office of Minerals Exploration at the present time. The applicant's geologist has done no geologic mapping on the surface nor has the applicant done any trenching or drilling to test the indicated anomalies. The applicant must first establish at least one or two target areas containing known mineralized material before any further consideration could be given them insofar as the Office of Minerals Exploration is concerned. It is therefore recommended that the application be denied.

Illustrations

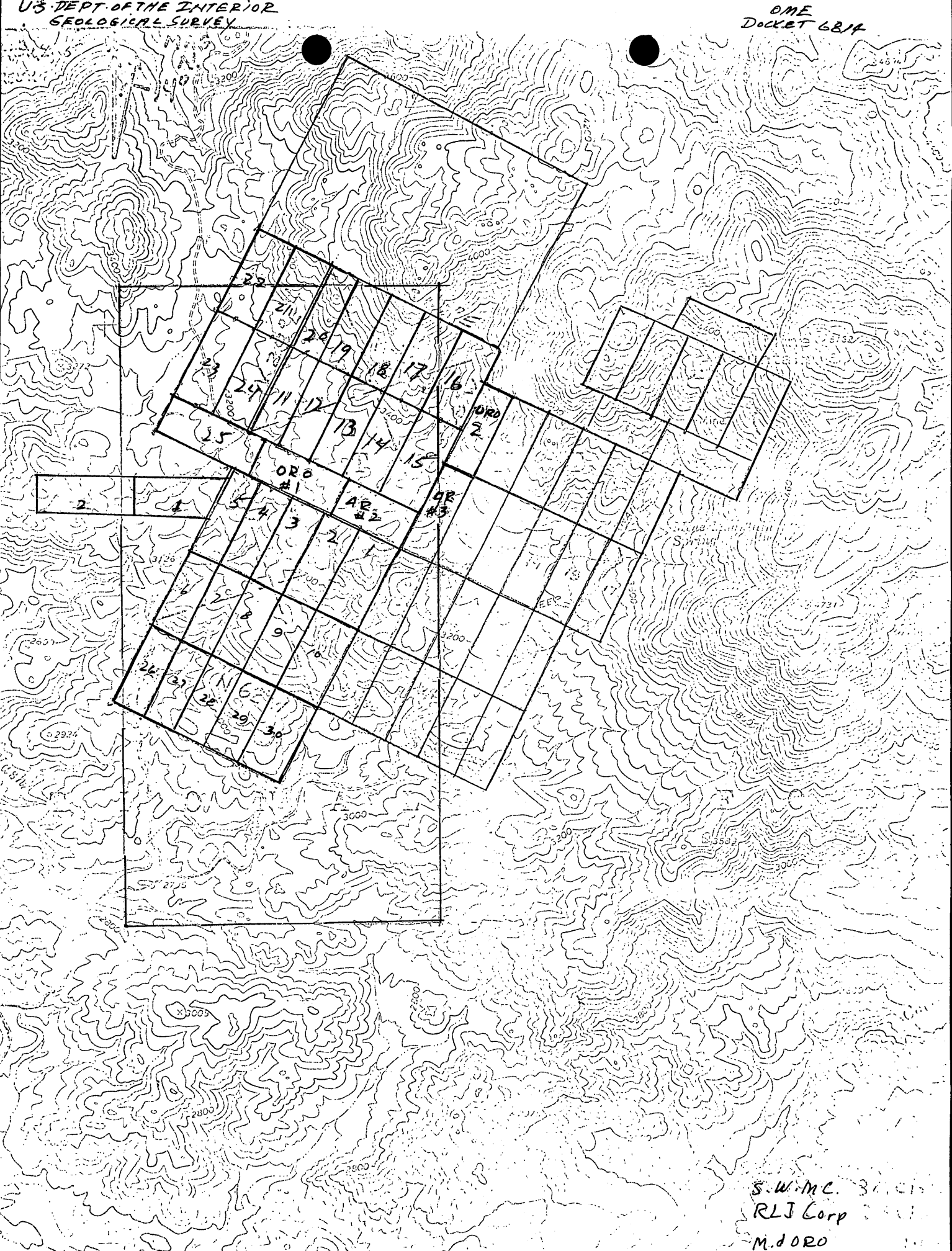
Figure 1. Map showing Southwest Mineral Company Claims.

Figure 2. 5th Derivative Overlay Map.

Figure 3. Radiometrics Overlay Map.

U.S. DEPT. OF THE INTERIOR
GEOLOGICAL SURVEY

OME
DOCKET 6814



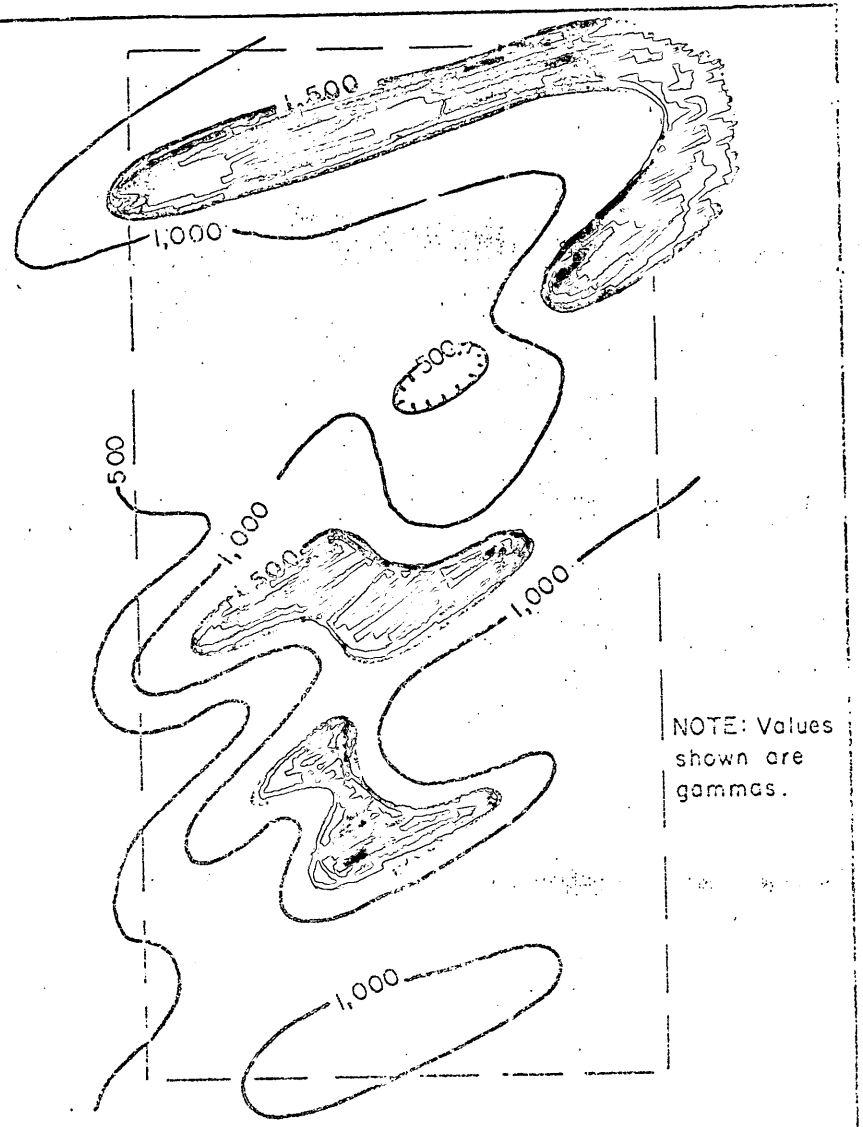


FIGURE 2.- 5th DERIVATIVE MAGNETICS

SCALE 1" = 1/4 mile

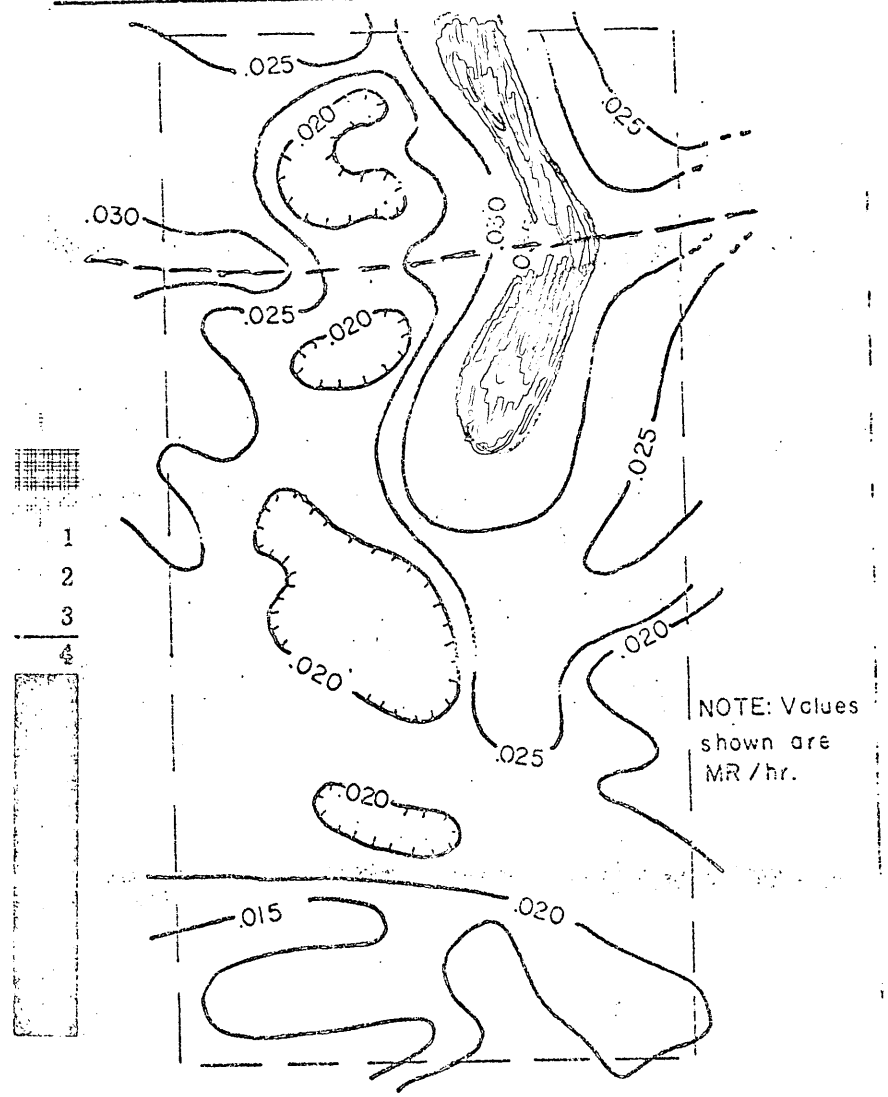


FIGURE 3. RADIOMETRICS

SCALE 1" = 1/4 mile

OFFICIAL COPY
O. M. E.
RECEIVED
FEB 11 1971
INITIALS | CODE

Office of Minerals Exploration
Building 53 Room 200

February 3, 1971

Mr. Gary White
336 East Fillmore Street
Tempe, Arizona 85281

Re: OME-6814 (Silver, Gold, Uranium, Platinum, Copper)
Southwest Mineral Company
Southwest Mineral Claim Group
Maricopa County, Arizona

Dear Mr. White:

Enclosed is the copy of the claim map you loaned me for use in my report of examination, as well as the photo positive showing the magnetics and radiometrics that Mr. Peyman loaned me.

Thank you for the opportunity of examining your property and for your hospitality as well.

Sincerely yours,

J. William Hasler

J. William Hasler,
Field Officer, Region III
Office of Minerals Exploration

Enclosures

cc: Chief, OME
OME-6814
OME chron
Mr. Hasler

MME Form 7
(2/63)

OFFICIAL FILE COPY

Date	Surname	Code
9/2/70	Emerick	120
		120
9/3	Cal	220
		120M

SEP 3 1970

AIRMAIL

Memorandum

To: Field Officer, Region III

From: Chief, Office of Minerals Exploration

Subject: OME-6814 (Gold-Silver, et al.)
Southwest Mineral Company
Southwest Minerals Claims Group
Maricopa County, Arizona

The subject application is referred to you for further study, a field examination if warranted, and recommendations.

In the event a contract is approved the Applicants should submit true copies of the partnership agreement, and, unless the docket numbers and page numbers given for the unpatented claims refer to microfilm records, the book and page number of the recordings should be obtained for the claims. It appears that without much effort an approximate township and range location could be worked out even though the land is National Forest. If a drilling program is worked out the locations of the drill holes should be shown on a map.

Harold Kirkemo (bsl)

Harold Kirkemo

cc: Director's Reading File
Mineral Resources File
OME Docket
OME Reading File
Mr. Emerick
130

erick/bsl 9/2/70

MME Form 7
(2/63)

OFFICIAL FILE COPY

Date	Surname	Code
9/2/70	Emerick	120
		120
		220
		120M

AIRMAIL

SEP 3 1970

Mr. Gary J. White
Acting Agent for
Southwestern Mineral Company
1320 West Sixth Street
Tempe, Arizona 85281

Re: OME-6814 (Gold-Silver, et al.)
Southwest Mineral Company
Southwest Minerals Claims Group
Maricopa County, Arizona

Dear Mr. White:

This will acknowledge receipt of your revised application, dated August 7, 1970, for financial assistance in exploring the subject property.

We are now referring the application for further consideration to Mr. J. William Hasler, Field Officer, Region III, Office of Minerals Exploration, U. S. Geological Survey, Room 203, Bldg. 53, Denver Federal Center, Denver, Colorado 80225.

Mr. Hasler will notify you if additional information concerning the application is needed and possibly to make arrangements for an on-site examination of the property. Nothing in this letter should be construed as a commitment by the Government to grant an exploration contract.

Sincerely yours,

Harold Kirkemo (bsl)

Harold Kirkemo
Chief, Office of
Minerals Exploration

cc: Director's Reading File
Mineral Resources File
OME Docket
OME Reading File
OME Region III
Mr. Emerick

WLEmerick/bsl 9/2/70

1. Need true copies of applicants' letters to banks.

2. It must be inferred that applicants' own the claims but it is not stated.

MME Form 7
(2/63)

OFFICIAL FILE COPY

Date	Surname	Code
5/19/70		120
		220

AIRMAIL

MAY 19 1970

Mr. Gary J. White
Acting Agent for
Southwest Mineral Company
1320 West Sixth Street
Tempe, Arizona 85281

Re: OME-6814 (Gold, Silver, et al.)
Southwest Mineral Company
Southwest Minerals Claims Group
Maricopa County, Arizona

Dear Mr. White:

In accordance with your letter of May 11, 1970, we are considering your application as having been withdrawn and are placing it in our inactive files.

If you wish to reopen this case at any time in the future, 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. Although data already submitted need not be resubmitted, it would be useful to identify such information in a new application.

Sincerely yours,

Harold Kirkemo (gla)

Harold Kirkemo
Chief, Office of
Minerals Exploration

cc: Director's Reading File
Mineral Resources
OME docket
OME Reading file
OME Region III w/copy letter May 11, 1970
120-M
Mr. Kirkemo

HKirkemo/gla 5-19-70

IN REPLY REFER TO:

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

Office of Minerals Exploration
Building 53 Room 200

COPY
O. M. E.
RECEIVED
APR 13 1970
INITIALS CODE

April 10, 1970

Memorandum

To: Chief, Office of Minerals Exploration

From: Field Officer, Region III

Subject: Application for Southwest Mineral Company, Maricopa County, Arizona

Transmitted herewith is an application for financial assistance in minerals exploration from the Southwest Mineral Company, 1320 West Sixth Street, Tempe, Arizona.

The applicant wishes to explore for gold, silver, uranium, platinum, tourmaline and copper on their property in Maricopa County, Arizona. I am retaining the second copy of the application in this office.

J. William Hasler

J. William Hasler,
Field Officer, Region III
Office of Minerals Exploration

Enclosure

May 11, 1970

MAY 18
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gla 120 M
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120

U.S. Depatment of The Interior
U.S. Geological Survey
Office of Minerals Exploration
Washington, D.C. 20242

Re: OME-6814

Gentlemen:

We received your letter dated April 22, 1970, pertaining to the withdrawal of our application for OME assistance.

We would at this time, upon your suggestion, like to withdraw the application. The suggested changes will be made, and the application will be resubmitted at a later date.

We appreciate your prompt consideration of our application.

Sincerely Yours,
Gary J. White
Gary J. White
Acting Agent for
Southwest Mineral Co.

copy to R-III

MME Form 7
(2/63)

OFFICIAL FILE COPY

Date	Surname	Code
4/22/70		120
4/22	car	220
		120M

AIRMAIL

Southwest Mineral Company
1320 West Sixth Street
Tempe, Arizona 85281

APR 22 1970

Re: OME-6814 (Gold, Silver, et al.)
Southwest Mineral Company
Southwest Minerals Claims Group
Maricopa County, Arizona

Gentlemen:

We have reviewed your application for financial assistance to explore the Southwest Minerals Claim Group at a total cost of $56,300.00.

The geologic mapping phase of the proposed project is not eligible for assistance under the OME program and neither are the detailed geophysical and geochemical studies proposed for the whole claim area. Exploration under the OME program must be directed to testing specific exploration targets which have been defined previously by work similar to that proposed in steps A, B, or C in your application.

The application for assistance cannot be further considered unless this preliminary but essential work is completed and exploration targets are defined. If the preliminary work is successful, you should furnish the additional geologic information, sample and assay data, plans for an exploration program designed to test the targets, and new estimates of costs. For these reasons, we suggest that you consider withdrawing the application at this time. We will be glad to reinstate the application upon receipt of the additional information. Material already submitted need not be resubmitted, but new bank letters may be requested.

Funds for the current year are fully committed to applications already approved. The extent of funds for the next fiscal year, beginning July 1, 1970, is unknown. Owing to curtailment of the program, the processing of applications is being delayed, and field examinations of properties necessary to reach decisions on applications are being made largely in connection with other field work of the program. Priority on available funds is given to approved applications offering the best opportunities for making significant discoveries.

Please advise whether or not you wish to withdraw the application.

Sincerely yours,

Harold Kirkemo (gla)

Harold Kirkemo
Chief, Office of Minerals Exploration

cc: Director's Reading File
Mineral Resources
OME docket
OME Region III
OME Reading File
Mr. Kirkemo

HKirkemo/gla 4-22-70

April 13, 1970

Southwest Mineral Company
1320 West Sixth Street
Tempe, Arizona 85281

Subject: OME-6814

Gentlemen:

Your application for exploration assistance, dated March 31, 1970, submitted to our office at Denver, Colorado, has been assigned Docket No. OME-6814.

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

Sincerely yours,

W. L. Emerick
Assistant Chief
Office of Minerals Exploration

Copy To Region III