MME Form 9
Rev. Nov. 65

UNITED STATES
DEPARTMENT OF THE INTERIOR
Geological Survey

OFFICIAL DOCKET FILE Contract No. _____ Docket No. 6614

Application
- [x] Denied
- [ ] Withdrawn

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

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

Folder No. 1:

Left Side

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

Right Side

- [ ] 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) Sept 9, '67
- [ ] 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

OFFICIAL COPY
O. M. E.
RECEIVED
JUL 10 1967
INITIALS | CODE
120 M
110
120

United States
Dept Of The Interior
Geological Survey
RE OME-6614.

Dear Mr Johnson

Enclosed you will find material we have gathered to answer your questions. As you can by now tell we are not very adept at putting things down on paper very clear. I hope you can make out some sort of sense from this. Sorry to be such a bother. There are no Geologists or Engineers here only those working for mining Co's. They will only investigate property for Co's and if they do they won't say anything about what they see which I suppose is understanable. We will probably know more in August. Thank you for your time and Consideration

Thomas A Moore
Edward Rolney
Sam Aupland
Rob Hayford
West Fork Mining Co.
326 Barnard
Fairbanks Alaska

Item 1. Financial Eligibility

Three letters were sent to three different banks. They were all the same. The Alaska State Bank called me in for a talk and told me they had never made a loan of this type and as they had no one on their staff capable of determining any of the geology or any of the other items they couldn't give us the money. no request for a financial statement

The Alaska National Bank reply was basically the same only they were not interested as they were not in the mining business whatsoever and would not be interested in making a loan on such a risky operation.

The First National Bank was more receptive but they wouldn't consider just an Exploration loan and what figure would bring the property to a production level. A hasty review of our needs gave us a figure of $300,000 but as our assets would not cover this much money and the fact we had no market developed for the product precluded their loan money.

Fairbanks Alaska
Dec 5 '66

Alaska National Bank
Fairbanks Alaska
Dear Sirs:-

We submit with this letter maps and assay reports on eighty six claims of the West Park Mining Company.

This material is submitted to you for your consideration of an exploration loan of $51,880 to be used to purchase fuel and equipment. Ownership of all equipment purchased under the loan auspices will remain with the bank untill loan and interest has been paid.

We intend to repay this loan from ore produced from the mine.

We further will come to an agreement of the percentage to be taken out of the gross production.

As we have never applied for a loan of this type before, we would like to talk to you concerning this.

We will also make possible any other information we may have.

Thank You

Norman H. Moore
3126 Baronof
Fairbanks Alaska

Fairbanks Alaska
Dec 19 '66

First National Bank
Fairbanks Alaska

Dear Sirs:

We submit with this letter maps and assay reports on Eighty Six claims of West Fork Mining Company.

This material is submitted to you for your consideration of an exploration loan of Fifty One thousand and eighty eight dollars to be used to purchase equipment and your Ownership of equipment would remain assigned to the bank untill we could pay the loan off.

We intend to repay this loan from ore produced at the mine.

We further will decide at the best repayment plan.

We have never applied for a loan of this type before. We would like a meeting concerning the bank and us at any time.

If there is more information you require, we will do our best to supply it.

Thank You

Norman V Moore
326 Baranof St
Fairbanks Alaska

OMF - 6617

Dec 5 - 1966

Alaska State Bank
616 5th Ave
Fairbanks Alaska

Dear Sirs

We submit with this letter maps and assay reports on 86 Claims of the West Fork mining Co. This material is submitted to you for your consideration of an Exploration loan of $51,880 to be used to purchase equipment and fuel. Owner ship of all equipment purchased under the loan auspices will remain with the bank untill loan and intrest is repaid. We propose to repay this loan from ore produced from the mine. We further propose the payment be 5% of the gross production.

As we have never applied for a loan of this type before we don't have any clear idea of how to go about applying for one. So at your convienence we would like to talk to you about this also answer any questions you may have regarding the property etc.

Thank you

Norman Barone
326 Barnard
Fairbanks Alaska.

Item 1-

Copies of the letters to the Banks and their answers enclosed.

Item 2. The names of the Claims are

Daisy Group	Bonanza group
D and M group	Eldorado group
Question Mark Group.	Discovery #1
	Lode #1

Intrests in the Claims are as follows.

Bonanza Group - 26 Claims

Norman Moore 1/4 intrest in each Claim

Ed Rolney 1/4 intrest in each Claim.

Sam Apland 1/4 intrest in each Claim

Bob Hayford 1/4 intrest in each Claim

Eldorado group - 30 Claims

Norman Moore 1/2 intrest in each Claim

Ed Rolney 1/2 intrest in each Claim

D and M Group 17 Claims

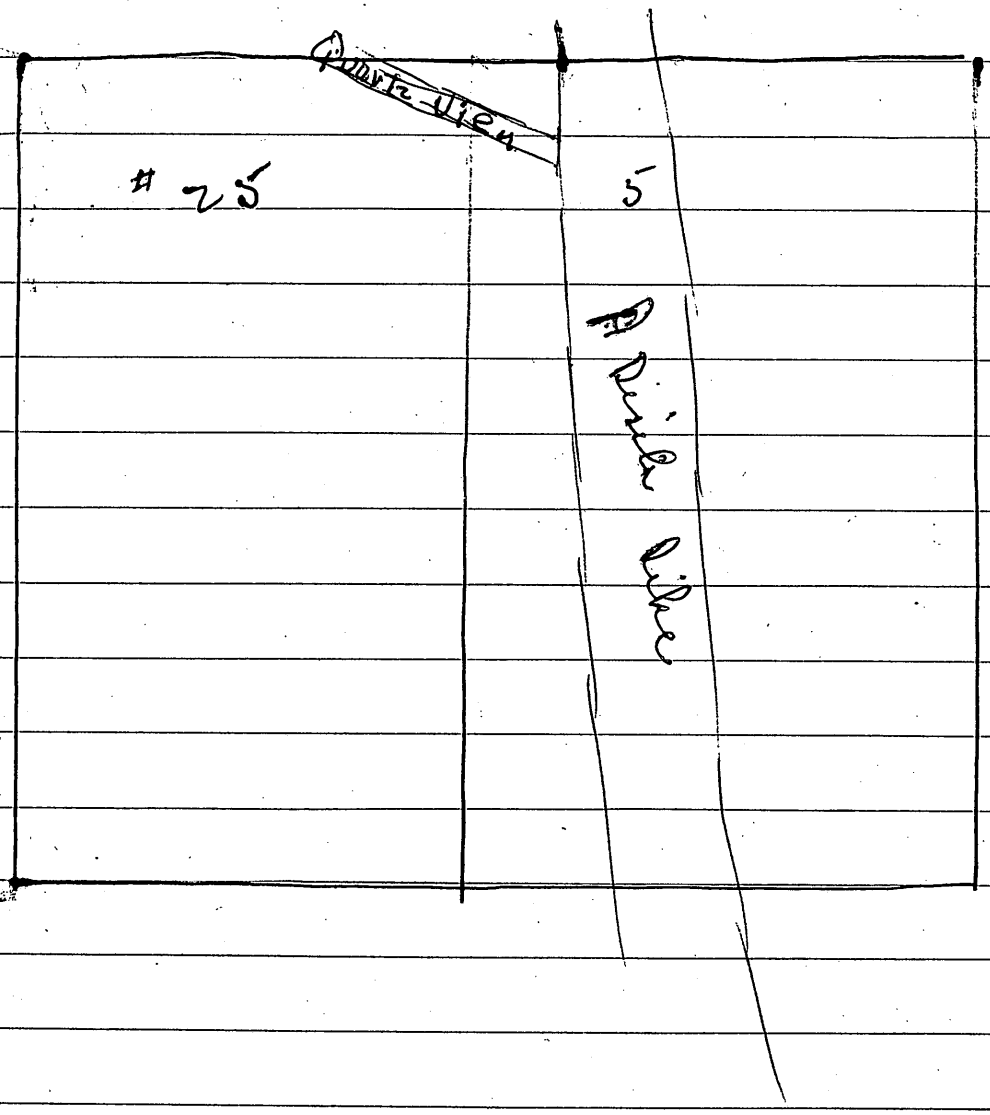
Norman Moore 1/2 intrest in each Claim

Ed Rolney 1/2 intrest in each Claim

Daisy group 8- Claims
Norman Moore ½ intrest in each Claim
Ed Dolney ½ intrest in each Claim
Question Mark Group 3 Claims
Norman Moore ½ intrest in each Claim
Ed Dolney ½ intrest in each Claim
Discovery 1 Claim
Norman Moore ½ intrest in each Claim
Ed Dolney ½ intrest in each Claim
Lode #1 1 Claim
Norman Moore ½ intrest in each Claim
Ed Dolney ½ intrest in each Claim.

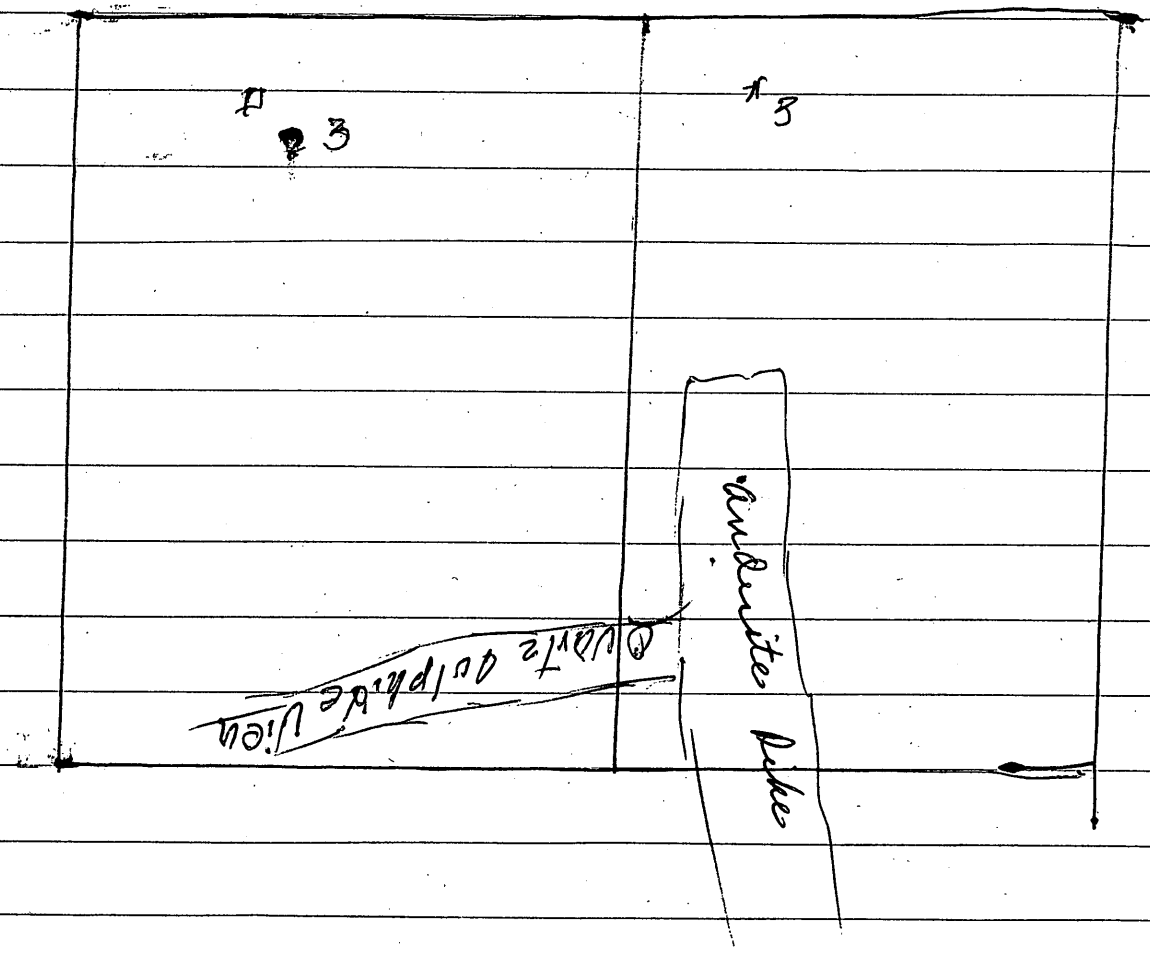
Item 3 - Physical Description

Assay #5 This sample was taken from a Quartz Sulphide VIEW Crossing from the upper end of #25 into the upper corner of #5 Chip samples 12" wide and 30' ft long



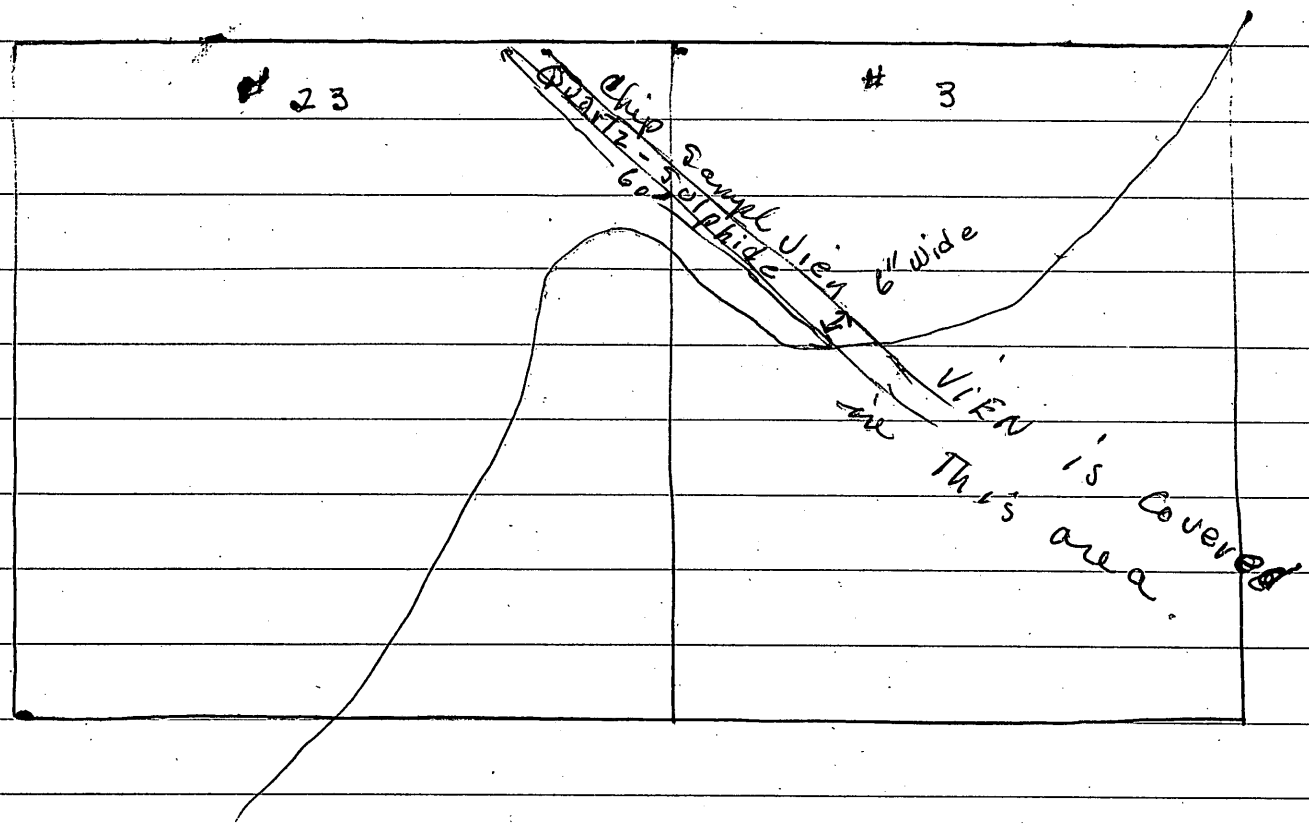
Item 3. Physical Discription

Assay #4 This sample was taken from a Quartz sulphid vein crossing from #23 into #3 chip samples of the vein which was 8" wide and approx 40' long



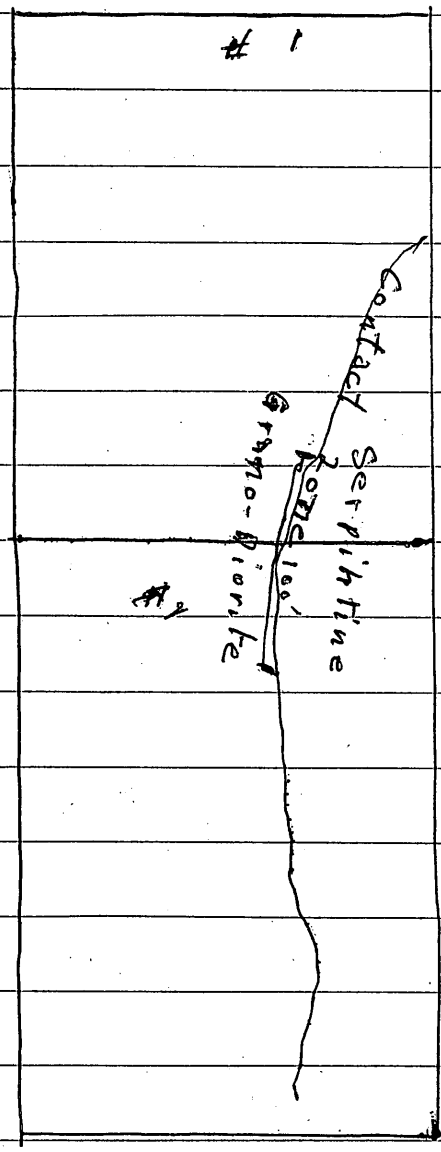
Item 3. Physical Description

Assay #1 This assay was taken from Claims #25 and #3 of the Eldorado group. We chip sampled this exposed vein matter which consisted of quarty and sulphides.



Item #3 Physical Discription

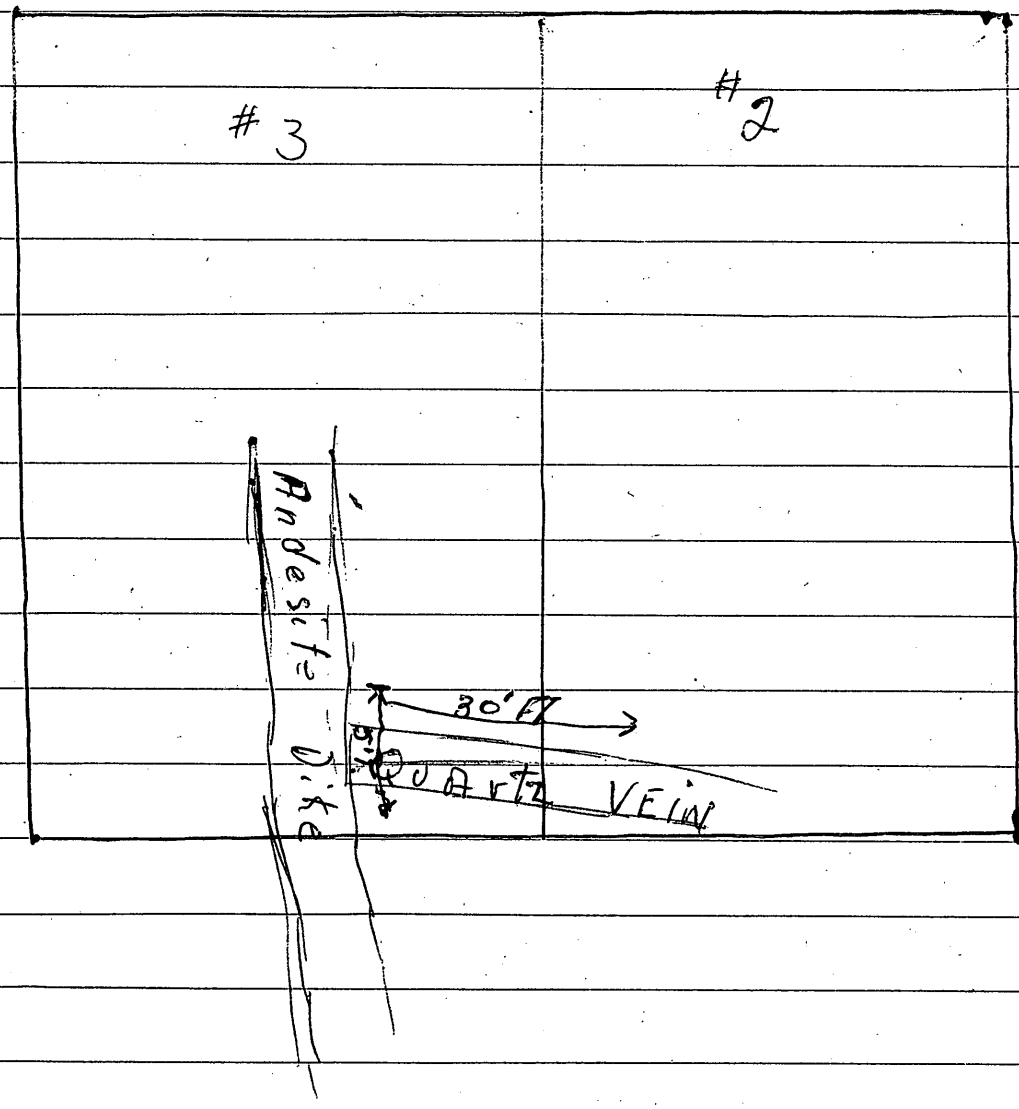
Assay #2. This assay was taken from Claims #1 and #2 of the Eldorado group. The material was from the contact zone of altered serpintine and brecciated grano diorite.



The lower part of #1 and upper part of #2 were chips sampled.

Item 3- Physical Discriptions

Assay #3 This sample was taken from a Vein Crossing from lower #3 into #2 disappearing under over burden on #2. Exposed VIEW Consists of Quartz and Sulphides. Chip samples were taken 5' wide approx 30' ft long



Item 4. Accessibility of Property

No funds are needed for road work as the trail mentioned is plenty good enough for our purpose at this time

Item 5. Exploration work.

As previously explaind my intrest is in the total 86 Claims along with aforementioned partners.

This may also take care of Item 6 Estimate of Cost. In September of 1966 a large Mining Co sent two Geologist in to investigate the property after spending 3½ days on the property they offered us a letter of intent to hold the property for 90 days, this would put the termination of the letter of intent in late November which is dead of winter there which precluded any sampling at that time. While we were on the property all of the outlined exploration work indicated on the map was indicated by these geologist as the mineral indications were present in outcrops. The Geologist chip sampled these indications promising to reveal their findings to us but as we didn't agree to their lease terms the assay reports were never made known to us All we know is they sent the samples to an assayer in Vancouver B.C. During the negotiating session we retained a lawyer and he suggested applying for an C.M.E which he would make out the papers for us but he got so busy we finally decided to do it ourselves with the resulting confusion.

Since the first papers were submited we have purchased a D 9 Cat w/Dozer and put it in top shape to go ahead needless to say our resources have been sadly depleted We intend to go as far as we can this season with what we have. Hoping this information is digestable and anything further that may be needed

Thomas A Moore
Edward Dolney
Samuel Aspland
Bob Hayford.

IN REPLY REFER TO:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

OFFICIAL COPY
O. M. E.
RECEIVED
MAR 31 1967
INITIALS CO.

Memorandum March 29, 1967

To: Chief, Office of Minerals Exploration
Washington, D. C.

From: Field Officer
Region II

Subject: New Application (Copper, Gold, Silver, Nickel)
West Fork Mining Company
Eldorado, Daisy, D.M., and Bonanza Groups of Claims
Chitina Recording District, Alaska

Enclosed is a new application for exploration assistance for a group of claims on the West Fork of the Chistochina River, Alaska, submitted to this office by Mr. Norman H. Moore, partner in the West Fork Mining Company, 326 Baronof Street, Fairbanks, Alaska.

Although copies of refusal letters from three banks are attached there are no copies of the applicant's requests. The assays do not indicate significant amounts of gold or silver and only minor amounts of copper and nickel in the veins. The thickness of mineralized material in the several veins is not indicated. A claim map is lacking. The amount of trenching and the estimated costs are certainly not justified by the meager exposures and grade of material indicated.

H. K. Stager

Enclosure

MME Form 40
Jan. 65

Budget Bureau No. 42-R1308
Approval expires Dec. 31, 1968

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

OFFICIAL CODE M. E. RECEIVED 3 31 1967 FILES CODE

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.)*

West fork Mining Co.
326 Baronof St
Fairbanks alaska

APPLICANT DO NOT USE THIS BLOCK

DOCKET NUMBER: 6614

DATE RECEIVED: Apr 3 ~~MARCH 29~~, 1967

REGION: II

DIVISION CODE:

BUSINESS ORGANIZATION *(Check one)*

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

STATE IN WHICH FIRM IS ORGANIZED:

LIST CORPORATE OFFICERS OR PARTNERS HERE, IF APPLICABLE

NAME	ADDRESS	TITLE
Norman H Moore	326 Baronof Fairbanks	
Edward J Dolney	Box 604 College alaska	
Samuel Cipland	336 First ave Fairbanks	
Bob Hayford	1035 Blair Road Fairbanks	

MINERAL(S) FOR WHICH YOU WISH TO EXPLORE: Copper, gold, silver, Nickel.

ESTIMATED COST OF PROJECT: $ 103,040.00

PROPERTY

NAME	LOCATION COUNTY	STATE
Colorado 1 to 30	Chitina	
Daisy 1 to 8 Discovery 1-2	Recording	
DM Group 1-17	District	Alaska
~~[illegible]~~ 1-26		

Bonanza

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., or 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.

March 27-1967
DATED

Norman H Moore
BY *(Signature)*

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 openings *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

INFORMATION REQUIRED WITH APPLICATION

1-A Copies of letters to three banks and their replies thereto.

1-B No other firms or corporations have any interest in said partnership or property.

1-C It is the intention of the partnership to sell stock to raise at least $25,000.

2-A Moore, Dolney, Hayford, Aspland are the owners of said claims.

2-B Eldorado group #1 thru #30. Book #3 page 130 thru 159. Chitina Recording District. Disy Group--Numbers 1 thru 8. Bood #3 page 105 thru page 112. Chitna Recording District. Discovery group 1 and 2. Book #3 page 100 and 101. Chitina Recording District. D. M. Group nos. 1 thru 17. Book #3 pages 102 thru 104. Chitina Recording District. Bonanza Group nos. 1 thru 26. Book #3 page 160 thru 185. Chitina Recording District. Township 20 South, Range 14 East, Fairbanks Meridian and Baseline, Chitina Recording District Alaska. This property is located on patentable ground.

2-C No lien of subordinate aggreement to be had.

3-A This is a new discovery and all of the exploratory work has been of minor nature consisting of random sampling of mineral zones and outcrops.

3-B The interest of applicant is discoverer and owner of 36 1/2 claims.

3-C As stated in (3-A this is a new discovery and no record of production exists.

3-DEFG The information required by these sections are contained in attached narrative assay reports.

4-A The property is accesable only by helicopter at this time. An airplane ski equipped has been used for winter work. An airstrip for fixed wing will be built this coming summer. A Cat frieght trail runs accross the property at this time which was used to get to placer property to the west.
The persons to contact regarding examinations by O.M.E. Personnel are:
Norman H. Moore 326 Baronof Ph. 456-5041. or
Edward J. Doney Box 604 College Ph. 479-6921.

4-B Shipping by truck via Richardson Hiway from Paxson to Valdez 200 miles.

5-A Plans call for stripping and trenching 9,000 ft. long North to South. 3 trenches 13 feet wide to expose cintinuation of veins striking east to west. 200,000 yards of material to move on the northern 26 claims. The south 60 claims will be trenched 15,000 North to South to expose mineral zone and contacts four trenches 13 feet wide--250,000 of material to be moved. Total of 450,000 yards of material to be moved. A descriptive map of proposed exporation work indicated thereon is ent herewith.

5-B Road work of 20 miles would involve an engineering phase before construction. The existing frieght trail will be utilized for frieghting by cat and sleds. ?

5-C If O.M.E. Loan is approved and executed it is intended that exploration work commence the first of May 1967. It is anticipated that progress be made at the rate of 2000 yards per day.

6- Norman H. Moore is an experienced miner who has worked in hard rock underground as a driller also as an operator in open cut placer mines and undergound drift mine. He will supervise the work. Edward J. Doleny is an experienced opeator and is a mechanic in the repair and maintainance of all types of equipment.

7-A No Independent contracts.

7-BCD & G

Every Day Costs of Supplies:

Fuel--200 gals. per day		$60.00
Lubricating oil and gasoline		$ 3.30
Depriciation on D-9 Cat at $50.00 per day		$50.00
1 doz. picks	$57.00	
1 doz. shovels	$48.00	
	$105.00	$ 4.29
Cost per 2000 yds.		$132.59 = .06½ per yards.
2000 yards per day.		

Labor = (seven day week)
Supervisor - $6.49 per hour
Time and one half on Sat.
Double time on Sunday
Averages out at 9.24 per hour.

Operators 2 needed - $6.18 per hour
Time and one half on Sat
Double time on Sunday
Averages out at $7.94 Per hour.

Based on 2000 yards per day $251.20 = .12½ per yard. ?

Every Day Cost of Supplies etc.	.06½ per yd. 2000yds.
Labor	.12½ per yd. 2000 yds.
Accounting	.01 per yd.
Insurance (Workmans Comp.)	¼ cent per yard.
Payroll (employees Matching)	¼ cent pr yard.
	.20½
Contingency	½ cent per yard.
	.21 PER CUBIC YARD.

21¢ X 450,000 yds = $94,500.00

Cost of Equipment to be Purchased Under Loan Auspices: !?

1. trailer for living quarters	$6,000.00
Freight from Fairbanks to mine	540.00
	$101,040.00
There are no Mining Engineers Available on a cost free basis in the event one is needed the amount of $1000.00 is added on the end to defray the cost of hiring one.	$1,000.00
	$102,040.00
Airfield Work	$1,000.00
	$103,040.00

REQUIRED INFORMATION FOR AN O.M.E. LOAN

Item 3. . . Geology

(e) The geology of the north west section which is cut by a small creek running from NE to SW. Exposes a formation of brecciated granodiorite in contact with an altered serpentine. This formation is faulted NW to SE with a dip of approximately 30° east. Veins of quartz cut the granodiorite west to east the veins are from small stringers to approximately a foot wide they are mineralized from 50% to 70%. The granodiorite and altered serpentine appears to be mineralized approximately 30%. The eastern side of this fault is covered by a slide rock composed of large blocks of quartz porphry which is mineralized the tenor is unknown. This slide rock is thick enough that examination of the bedrock is impossible without removal of this cover.

The southeast corner outcrops for approximately 900 ft. The formation here is granodiorite in contact with limestone. This section is moneralized with massive sulphide deposits on the contact zone and in the granodiorite the limestone appears to not have any mineralization on the surface. As the river runs over bare bedrock the granodiorite is visible under water containing sulphide pockets. The upper stratas are covered by talus, moss and loose gravel approximately 12 ft. thick. Leaching of copper minerals are notceable by

their bands of carbonates in the protected areas.

The southwest area is granodiorite in contact with altered quartz which contacts a fault running NW to SE. The west side of this fault is granodiorite with disseminated sulphides and lenses of sulphides. This formation has been traced for several thousand feet south and over 900 ft. west and east. The east side of this fault is a shale impregnated along shear zones with sulphides this formation has been traced 1200 ft. east where it contacts a granitic formation which is mineralized in zones with fine disseminated sulphides. This fromation then contacts an altered serpentine further east which is mineralized with massive sulphides.

The ore minerals are silver, gold, copper, molybdenum bearing pyrite, quartz veins. In close proximity to these are nickel bearing quartz pyrratite veins. The nickel veins carry 1.5% nickel with gold and silver values. The pyrite veins carry 7% copper with silver gold values. Several quartz chalcopyrite veins are also visible with values of silver, gold and copper. The serpentine and granodiorite contain a large percentage of disseminated sulphides also lenses and vugs of ore which at this time have not been assayed. This area is the northwest. In the south is an area containing granodiorite with vugs and lenses of ore occur. The central south is an area of shale and granodiorite with chalcopyrite along shear zones carrying silver, gold and copper. The southeast corner outcrop indicates chalcopyrite and pyrrotite.

Reed Engineering

620 South Inglewood Avenue
Inglewood 1, California

Received from: Sam Espiand

Date: Aug 25 1966

SPECTROGRAPHIC ANALYSIS

Sample No.

Approximate Values

This sample has been tested for all the following elements.

	Lbs. per ton	Value per ton	Percent
Aluminum	60.	.60	3
Antimony			
Barium	1	.01	.05
Beryllium			
Bismuth			
Boron			
Cadmium			
Calcium	20	.40	1
Carbon			
Cesium			
Chromium			
Cobalt			
Columbium			
Copper	88	$22.00	4.4
Fluorine			
Gallium			
Germanium			
Hafnium			
Indium			
Iron	38	.46	1.9
Lead			
Lithium	trace	--	--
Magnesium	50	.75	2.5
Manganese	1	.04	.05
Mercury			
Molybdenum			
Nickle			
Osmium			
Palladium			
Potassium			
Rhodium			
Rubidium			

	Lbs. per ton	Value per ton	Percent
Ruthenium			
Selenium			
Silver			
Sodium	40	.24	
Sulphur			
Strontium	trace	--	
Tantalum			
Thallium			
Thorium			
Tin			
Titanium	trace	--	--
Tungsten			
Uranium			
Vanadium			
Zinc			
Zirconium			
Silicon, water, oxygen			86.1%
RARE EARTHS			
Cerium			
Dysprosium			
Erbium			
Gadolinium			
Lanthanum			
Neodymium			
Praseodymium			
Samarium			
Yttrium			

Radioactivity	0
Streak	gray

ULTRAVIOLET FLUORESCENCE

PROFESSIONAL

1

Vein 6" wide 60' long on Claims #25 and #3 Eldorado group.

THE EISENHAUER LABORATORIES
16-322 South San Pedro Street
Los Angeles, California 90013

E.D. EISENHAUER JR.
EISENHAUER RAYMOND
LAWRENCE EARL RAYMOND

(1 3 oz)

ASSAY CERTIFICATE

PHONE 622-9320

Los Angeles, Cal. July 13/66 19

I hereby Certify that the samples described below, received from
Samuel [illegible]pland
assay as follows:

Owner's Mark and Sample	GOLD			SILVER			TOTAL VALUE PER TON	PERCENTAGE OF	
	OZS PER TON		VALUE PER TON	OZS PER TON		VALUE PER TON		COPPER	LEAD
No Mark	[illegible].77		$ [illegible].45	[illegible].64		$ [illegible].3[illegible]	$ [illegible]3.23	trace	

Material is [illegible] [illegible] altered serpentine.

GOLD @ $ 35 PER OZ.
SILVER @ $ 1.29 PER OZ.
LEAD @ ____ C.
COPPER @ ____ C

CHARGES [illegible].00 (see attached [illegible] for credit memo)

Established 1916

#2

Contact zone between altered serpentine and brecciated [illegible] on Eldorado #1 and No. 2 claims contact appears for 100' on strike

#2

EISENHAUER LABORATORIES
315-322 South San Pedro Street
Los Angeles, California 90013
ED EISENHAUER JR
C. EISENHAUER RAYMOND
LAWRENCE EARL RAYMOND

ASSAY CERTIFICATE

PHONE 622-9[illegible]

Los Angeles, Calif. [illegible] 19[illegible]

I hereby Certify that the samples described below, received from [illegible] assay as follows:

Owner's Mark and Sample	GOLD		SILVER		TOTAL VALUE PER TON	PERCENTAGE	
	OZS PER TON	VALUE PER TON	OZS PER TON	VALUE PER TON		COPPER	LEAD
rk	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	

GOLD @ $ [illegible] PER OZ.
SILVER @ $ [illegible] PER OZ.
LEAD @ ____ C.
COPPER @ ____ C.

CHARGES [illegible]
Credit [illegible]

ASSAYER

Established 1916

#3
Vn. 6" wide
60' long
on claim #2 and
#3
? group

DM-11
11/65

Report No. [illegible]

Date of Report [illegible]

STATE OF ALASKA
Department of Natural Resources
DIVISION OF MINES AND MINERALS
3001 Porcupine Drive, Anchorage, Alaska 99504

LABORATORY REPORT

For Mrs. Moore Address 326 Baranof, Fairbanks, Alaska

Number of Samples 6 Date Received 12/6/66

Work Done: A. X-ray fluorescence quant. ☐, semi-quant. ☒ D. Fire assay ☒
B. X-ray diffraction ☐ E. Identification ☐
C. Spectrographic quant. ☐, semi-quant. ☒ F. Other ☐

Laboratory Number	Sample Marked	Analysis or Identification				
		Ounces per ton		Spectographic Analysis		
		Au	Ag	Major	Minor	Trace
32613 (19220)	#1	#4 0.02	0.16	silicon iron	calcium titanium aluminum nickel	copper magnesium potassium lithium manganese barium
		Vein 8" wide and 40' long on No. 23 and No. 3 claims ? group				
32614 (19221)	#2	0.02	0.88	iron	copper silicon calcium	sodium titanium nickel
		#5 Vein 12" wide + 30' long No. 25 + No. 5 claims ? group				
			Weight percent			
			Cu	Ni		
19220			0.3±0.1	1.5±0.3		
19221			6.5±0.5	N. D.		

Reed Engineering

620 South [illegible] Avenue
Inglewood, California

Received from: [illegible] Spears

Date Jan 6 1967

SPECTROGRAPHIC ANALYSIS

Sample No 3

Approximate Values

This sample has been tested for all the following elements.

	Lbs. per ton	Value per ton	Percent
Aluminum	[illegible]	[illegible]	3.[illegible]
Antimony			
Barium			
Beryllium			
Bismuth			
Boron			
Cadmium			
Calcium	[illegible]	[illegible]	3.[illegible]
Carbon			
Cesium			
Chromium			
Cobalt			
Columbium			
Copper	[illegible]	[illegible]	[illegible]
Fluorine			
Gallium			
Germanium			
Hafnium			
Indium			
Iron	41	.4[illegible]	2.0
Lead			
Lithium			
Magnesium	17	.2[illegible]	[illegible]
Manganese	trace	---	---
Mercury			
Molybdenum			
Nickle			
Osmium		#6	
Palladium			
Potassium			
Rhodium			
Rubidium			

	Lbs. per ton	Value per ton	Percent
Ruthenium			
Selenium			
Silver			
Sodium	12	[illegible]	.0[illegible]
Sulphur			
Strontium			
Tantalum			
Thallium			
Thorium			
Tin			
Titanium	[illegible]	---	---
Tungsten			
Uranium			
Vanadium			
Zinc			
Zirconium			
Silicon, water, oxygen		---	93.9

RARE EARTHS

Cerium			
Dysprosium			
Erbium			
Gadolinium			
Lanthanum			
Neodymium			
Praseodymium			
Samarium			
Yttrium			

Radioactivity [illegible]

Streak [illegible] green

ULTRAVIOLET FLUORESCENCE

Long wave [illegible]

Short wave [illegible]

REGISTERED PROFESSIONAL ENGINEER
JESS MYRON REED
No 4931
STATE OF CALIFORNIA

NOTE: Value per ton is an estimated value for raw ore, not for refined metal.

Assayer

REED ENGINEERING
620 South Inglewood Avenue
Inglewood 1, California

Assay Certificate

Date: Jan 5, 1967

The samples received from

E. A. Espland

assayed as follows:

Sample Identification	Gold		Silver	
	OZ. PER TON	VALUE PER TON	OZ. PER TON	VALUE PER TON
# 7	.081	$2.30	trace	----
#7				

Gold $35.00 Per Oz.
Silv@1.29 Per Oz.

ASSAYER

FIRST NATIONAL BANK
OF FAIRBANKS

FAIRBANKS, ALASKA
February 27, 1967

Mr. Norman Moore
326 Baranof, Hamilton Acres
Fairbanks, Alaska

Dear Mr. Moore:

The loan committee of the First National Bank Of Fairbanks has re-examined your application for a loan on a mine near Paxson, on the West Fork and Chistocina River, owned by you and Messrs. Dolney, Espland, and Hayford, in the amount of $300,000.00.

First: We find even with the additional personal collateral offered, there isn't a sufficient value.

Second: Repayment program is not definite and acceptable.

Third: Repayment time element is doubtful, and there is a good possibility it would extend to a long time venture.

Based on these factors, we are sorry but the loan must be turned down.

Very truly yours,

FIRST NATIONAL BANK OF FAIRBANKS

Alvin Polet

By: Alvin Polet,
Assistant Vice President

AP:bg
cc: Messrs. Edward Dolney
Sam Espland
Robert Hayford

ALASKA STATE BANK

OFFICES IN

ANCHORAGE • FAIRBANKS • KENAI

P.O. Box 769, Fairbanks, Alaska 99701

January 11, 1967

Mr. Norman H. Moore
326 Baronof Street
Fairbanks, Alaska

Dear Mr. Moore:

We appreciate the opportunity to review your loan request for exploration purposes. Although we fully realize the importance of this type of work to Alaskan economy and development, we must decline your request due to the availability of funds.

un

Very truly yours,

R. L. Mock

R. L. Mock
Assistant Vice President

RLM:dm

ALASKA NATIONAL BANK
of Fairbanks

NORTHWARD BUILDING "The Friendly Bank" FAIRBANKS, ALASKA - 99701

January 13, 1967

Mr. Norman H. Moore
326 Baranof
Fairbanks, Alaska

Dear Mr. Moore:

This is in regard to your recent application for a loan in the amount of $50,000.00 to be made to a partnership consisting of the following individuals:

Norman H. Moore
Edward J. Dolney
Sam Espland
Robert Hayford

We have carefully reviewed your application and regret that we will be unable to assist you in this financing. The lack of a realistic repayment program makes this loan unattractive in our estimation. Loans of this nature are not generally considered bankable due to the high risk element involved, even though successful development of a project such as this would be very highly desirable for Interior Alaska from an economic stand point.

Very truly yours,

W. M. Cartwright
Senior Vice President

WMC:js

FEDERAL DEPOSIT INSURANCE CORPORATION $10,000 MAXIMUM INSURANCE FOR EACH DEPOSITOR MEMBER

PLEASE SEND ALL CORRESPONDENCE TO ALASKA VIA AIR MAIL

INSTRUCTIONS FOR USE

1. Identify Agency of Addressee
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	STOP		STOP
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	STOP		STOP
	STOP		STOP

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U.S. Government Messenger Envelope

Standard Form 65 (Nov. 1961)
GSA Gen. Reg. No. 27

65-105

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Mr. Stevenson [illegible]	STOP	~~Geologic Inquiries Group~~ 1316 ~~Int.~~	STOP
~~D E & F P 1425 Temp R.~~	STOP	Mr. Kirkemo Rm. 4460 Int. Bldg.	STOP
[illegible]	STOP		STOP
~~Mr. [illegible] [illegible] 22 [illegible] Ave.~~	STOP		STOP
~~Mr. [illegible] U.S. Geological Survey Rm. 2207 Int. Bldg. [illegible]~~	STOP		STOP
Mrs. Gates (1 of 2 copies) Rm 3218 GSA	STOP		STOP
~~Ogden Tweto Room 4240 Int Bldg~~	STOP		STOP
~~[illegible] 5[illegible]~~	STOP		STOP
~~Mr. Williams [illegible]~~	STOP		STOP
~~[illegible] 5[illegible]~~	STOP		STOP

Use other side

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Your mail room has STOP information.

MME Form 7
(2/63)

OME

OFFICIAL FILE COPY

Date	Surname	Code
6/20/68	Kirkemo	110
"	Johnson	120
6/21	Kilgoyard	
6/21	Meyer	220

JUN 24 1968

Hon. Ernest Gruening
United States Senate
Washington, D. C. 20510

Dear Senator Gruening:

We have your letter of June 13, requesting a report on any action taken on the application for financial assistance in minerals exploration filed by Mr. Norman H. Moore, of Fairbanks, Alaska.

On December 11, 1967, the application (OME-6614) submitted by Mr. Moore of West Fork Mining Company (a partnership) for exploration assistance in the amount of $103,040.00 was denied. A copy of our letter of that date to the applicant is enclosed for your information.

In his letter to you, Mr. Moore states he is seeking $300,000 to buy a mill and other equipment. Under our exploration assistance program, funds are not provided for the purchase of mining and milling equipment. Loans for such purposes are made under certain conditions by the Small Business Administration, providing sufficient ore reserves are assured to repay the loan. Information concerning these loans may be obtained from:

Small Business Administration
632 Sixth Avenue, Suite 450
Anchorage, Alaska 99501

Sincerely yours,

Arthur A. Baker

Acting Director

Enclosure

cc: General Files
Director's chron
Division File
Economic Geology File
OME docket
OME Reading File
OME Region II (2) w/enclosures
Mr. Kirkemo

FEJohnson/gla 6-20-68

UNITED STATES SENATE
Committee on
Interior and Insular Affairs

June 13, 1968

Dr. W. T. Pecora
Director
Geological Survey
Department of the Interior
Washington, D. C.

Dear Dr. Pecora:

Enclosed is another request from Alaska for OME assistance for development of a mineral property. As you will see from the enclosure, the applicant, Mr. Norman H. Moore, believes he has an extremely valuable resource of copper, gold, silver, nickel, and molybdenum. Certainly, it would be most desirable to find a way of assisting Mr. Moore if this is at all possible.

Please supply me with a report on any action the Office of Minerals Exploration may have taken on this particular case and any comment you may wish to make concerning the desirability of legislation to provide Federal assistance for the kind of work in which Mr. Moore is interested.

Your assistance in this matter will be greatly appreciated.

With best wishes, I am

Cordially yours,

/s/ Ernest Gruening

ERNEST GRUENING, U. S. S.

Enclosure

c
o
p
y

x Fairbanks, Alaska
June 6,'68

Senator Greening
Wash..D.C.

Dear SENATOR.

I am writing to you to see if any this time you can do something for us with O.M.E., Now that duval has stated they took out one million dollars worth of pottash at the cost of sixty two million dollars to do it. They told us in Wash. D.C. they were out of money untill a new appropriation came in.

The amount we ask for was three hundred thousand to buy a mill with along with some other equipment, We can not produce untll we do. Since we have been waiting for money we have done a great deel of geo. chem. We expect in the near future to have about sixty five thousand in this mine. We have traced our targets down and we find our copper runs from 1.40 to 12 percent, gold .31, silver several dollars a ton , nickle 2 percent and some Moly. With this mill we can start production by September or October.

Please do your best to get this on its way as every thinks it is because we have a republican Gov. and they say if we want to get any where here we have to get a republican president and God forbid this should ever happen with Nixon. We are all holding out for a break that will teach these people different. We feel so very badly about Bobby Kennedy, It seems like such a bad break and so unnecessary, We actually are worse than animals when we allow these kind of things to happen.

I know you have your hands full but please handle this your self and please help us to get this going soon.

We thank you sincerly.

NORMAN H.MOORE
301 Kody Drive
Fairbanks Alaska

c
o
p
y

MME Form 7
(10-58)

OFFICIAL FILE COPY

Date	Surname	Code
12/7/67	Kirkemo	120
12/8	Johnson	110
12/8	Kilzgard	
12/8	Clyz	220

12-11-67

AIRMAIL

West Fork Mining Co.
301 Kody Drive
Fairbanks, Alaska 99701

Re: OME-6614 (Copper, Gold, Silver, Nickel)
West Fork Mining Co.
Eldorado, et al., Groups of Claims
Chitina Recording District, Alaska

Gentlemen:

Your application for financial assistance to explore the Eldorado and other claims has been reviewed.

Careful study of this information and of other information available to us indicates that the probability of disclosing significant ore reserves on your property is not sufficiently promising to justify Government participation in the proposed exploration. We regret to advise you that under the circumstances your application for financial assistance is denied. This decision is reached without prejudice to your property.

We suggest that further prospecting, sampling and geologic mapping be conducted on the property in an effort to locate specific exploration targets. Such work may require trenching, stripping, or pitting in order to expose for mapping and sampling any mineralized structures that may be present. If the results of this work indicate that the potential size and grade of material found warrants further investigation, then an exploration program is the next logical step. Unfortunately, the OME can not participate in the prospecting phase, but we would be pleased to consider an application for exploration assistance based on favorable results of such work.

Sincerely yours,

FRANK E. JOHNSON

12-6-67

Frank E. Johnson
Chief, Office of
Minerals Exploration

cc: Director's Reading File
Division File
Economic Geology File
OME File
OME Reading File
Mr. Kirkemo, 130, Region II (2 copies)

HKirkemo/bsl 12/7/67

43683

MME Form 7
(10-58)

OFFICIAL FILE COPY

Date	Surname	Code
12/7/67		120
12/8	[illegible]	110
		220
		120M

DEC 7 1967

Memorandum

To: The File

From: Assistant Chief, Office of Minerals Exploration

Subject: OME-6614 (Copper, Gold, Silver, Nickel)
West Fork Mining Co.
Eldorado, et al., Groups of Claims
Chitina Recording District, Alaska

Justification for Denial

The Applicant proposed a program estimated to cost $103,040 to explore by stripping and trenching a low grade copper deposit along the West Fork of the Chistochina River on the south slope of the Alaska Range.

The Field Examiner recommended a three stage program consisting of channel sampling, trenching, and drilling. The Field Officer, Region II, recommended denial of the application.

The property is in the Mt. Hayes A-2 and A-3 guadrangles, some 70 miles northeast of Gulkana on the Anchorage - Fairbanks highway, and is accessible at present only by light aircraft.

The Field Examiner confirmed the Applicant's report of low grade copper mineralization in veinlets and disseminated blebs scattered irregularly in volcanic rocks. Composites of chip samples collected at intervals of 10 to 100 feet when assayed showed trace gold, trace silver, 0.11 to 1.31 percent copper, nil to 0.16 percent nickel, and nil to 0.007 percent molybdenum. Assays of samples from individual veinlets showed as much as 11.95 percent copper (across a width of one inch) but no greater content of the other metals than already reported. Samples of the wall rock showed no appreciable mineral content. The Field Examiner reported individual veins ranged from one inch to 4 feet wide and were rarely more than a few feet long. No structural or stratigraphic control of the mineralization was reported, nor was there any apparent relationship of rock alteration to the mineralization.

Information in the application and in the Field Examination report indicates that further prospecting and sampling is necessary to determine whether there are exploration targets present. Investigations thus far more nearly resemble reconnaissance type work than prospecting or exploration. The channel sampling stage of the program recommended by the Field Examiner is more in the nature of prospecting and needs to be done but this type of work is not eligible for OME assistance. Favorable information from this type of investigation is required to justify a subsequent exploration program.

43683

In summary, the principal unfavorable factor is the incomplete evaluation of the geologic potential for significant ore reserves on the property. The grade and extent of mineralized material exposed thus far is not economically attractive considering the remoteness of the property and the adverse operating conditions.

I concur in the Field Officer's recommendation to deny the application without prejudice to the property. If exploration targets can be defined by additional prospecting and sampling, an amended application could be considered.

Harold Kirkemo

Harold Kirkemo

cc: Director's Reading File
Division File
Economic Geology File
OME File
OME Reading File
Mr. Kirkemo

HKirkemo/bsl 12/7/67

RECEIVED

DEC 4 1967

OFFICE OF MINERALS EXPLORATION
U.S. GEOLOGICAL SURVEY
MENLO PARK, CALIF.

OFFICIAL COPY
O. M. E.
RECEIVED
DEC 6 1967

INITIALS	CODE
BR	120 M
FJ	140
HK	120

Fairbanks Alaska
Nov. 29 - 1967

U. S. Geological Survey
345 Middlefield Road
Menlo Park, Calif.

OME-6614

Mr Harold K. Stager Geologist.

Dear Sir.

Several weeks ago I wrote regarding O.M.E. 6614 to date I have had no reply. It is possible I sent it to the wrong office so will write again. We would very much like to do more work on the West Fork this winter as a good portion of the work can best be done in the winter. We would like this work to be directed in the right direction and for the good of the prospect. I contacted Mr Bilter and he said his advice and or recommendation were in his report and as we don't know what these are or the results of his examination we would like to know what the determination is regarding O.M.E. 6614. Your information will be most helpfull to us. Thank You - Respectfully Yours

Tom and Moore
301 Kody Drive
Fairbanks Alaska 99701

Fairbanks Alaska
Nov - 17 - 1967

OFFICIAL COPY
O. M. E.
RECEIVED
NOV 24 1967

INITIALS	CODES
	120
	120
	110
	120

U.S. Geological Survey
345 Middlefield Road
Menlo Park California

RE: OME-6614

Dear Sirs

I am writing to inform you of my change of address. since the flood I've been on the move but have finally landed permanently.

I am also wondering about the disposition of the application

Respectfully
Tomah A Moore
301 Kody Drive
Fairbanks Alaska
99701

U.S. GEOLOGICAL SURVEY
ADMINISTRATIVE DIVISION
PACIFIC COAST SUPPORT OFFICE
MENLO PARK, CALIFORNIA
NOV 20 1967
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NOV 21 1967
OFFICE OF MINERALS EXPLORATION
U.S. GEOLOGICAL SURVEY
MENLO PARK, CALIF.

OFFICIAL COPY
O. M. E.
RECEIVED
NOV 17 1967

INITIALS	CODE
	~~130~~
	120
	~~170~~
	190

Donald H. Richter, Anchorage, Alaska

November 13, 1967

Robert M. Chapman, College, Alaska

West Fork of Chistochina River prospect, OME application.

Ed Dolney called me last week to inquire about the sample analyses from their property. He and Norm Moore have inquired several times about the samples that you took, and they seem anxious to get going with some work on the property this winter, whether or not an OME loan is approved.

By now Dolney has probably contacted you. He and Bob Hayford are planning to come to Anchorage, I suspect chiefly to see you although probably on some other business also, soon, and will want to discuss samples, etc. with you. I told Moore and Dolney that you had one fairly good copper value among your samples. They are probably going to do something on the property before next summer, so it would be in the best interests of all concerned to give them the benefit of your ideas in order that whatever they decide to do may be as well directed as possible.

I expect to be in Anchorage next week for about 2 days on the 20th, 21st, or 22nd, mainly for an Alaska Survey Committee meeting. I am still awaiting word from Lee, Harry, Margaret, and Betty as to whether they will be available to meet on one of those 3 days. If you have any matters or problems that should be brought up at this meeting, we can get together to discuss them before the meeting. Anyhow will look forward to seeing you.

OME-6614

cc. Gryc
Stager
Director's RF
Division RF
Chron

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NOV 15 1967
OFFICE OF MINERALS EXPLORATION
U.S. GEOLOGICAL SURVEY
MENLO PARK, CALIF.

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NOV 15 1967
OFFICE OF MINERALS EXPLORATION
U.S. GEOLOGICAL SURVEY
MENLO PARK, CALIF.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Memorandum

November 9, 1967

To: Chief, Office of Minerals Exploration
Washington, D. C.

From: Field Officer
Region II

Subject: OME-6614 (Copper, Gold, Silver, Nickel)
West Fork Mining Company
Eldorado, et al., Groups of Claims
Chitina Recording District, Alaska

130
120m
130

Enclosed is an examination report on the subject property, prepared by Don Richter of the Alaskan Branch. Don has recommended a small (3-stage) program of sampling, trenching, and drilling, but has not furnished any cost data for such a project. He has based his recommendation on the assay results of one chip sample that indicates a copper content of 1.31 percent across about 200 feet of iron-stained diorite. Only trace amounts of gold, silver, nickel, and molybdenum are reported.

Although a copper content of 1.31 percent would be of economic interest here in the southwestern states, and additional work might be justified, the remoteness of the subject property, its inaccessibility, severe weather conditions, and short working season make it of questionable interest. It is not probable that a minable copper deposit would be indicated by the proposed exploration. The recovery of Government funds by payment of royalty on production in the foreseeable future would be unlikely. For these reasons I recommend that the application be denied.

H. K. Stager

Enclosure

OPTIONAL FORM NO. 10
MAY 1962 EDITION
GSA FPMR (41 CFR) 101-11.6

UNITED STATES GOVERNMENT

Memorandum

TO : Hal Stager, Field Officer
OME, Region II

DATE: November 3, 1967

FROM : Don Richter
Anchorage

SUBJECT: OME-6614 (copper, gold, silver, nickel)
West Fork Mining Company

Enclosed is the original and one copy of my examination report on the subject property. I have weaseled around my suggestion of resampling the property - in view of the first sampling results - by including sampling as the first stage of a recommended program.

Also enclosed is the OME docket which was sent to me by Chapman. Let me know if you want the originals of the figures in my report.

It was good seeing you in Menlo.

Don

DHR/kp

enclosure

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NOV 6 1967
OFFICE OF MINERALS EXPLORATION
U.S. GEOLOGICAL SURVEY
MENLO PARK, CALIF.

5010-108

Buy U.S. Savings Bonds Regularly on the Payroll Savings Plan

REPORT OF EXAMINATION

OME-6614
(copper, gold, silver, nickel)

West Fork Mining Company
Chitina Recording District, Alaska

Donald H. Richter
U.S. Geological Survey

On-site
Exam

SUMMARY & CONCLUSIONS

A zone of low-grade copper mineralization in strongly iron-stained andesite and dacite volcanics along the West Fork of the Chistochina River on the south slope of the Alaska Range appears to warrant further exploration. The copper occurs as chalcopyrite,associated with pyrite,in veinlets and disseminated blebs scattered irregularly throughout the volcanic rocks. Chip samples across the strongest mineralized exposures indicates the possible existence of a zone as much as 200 feet wide containing 1.3% copper. An exploration program of channel sampling, trenching and sampling, and drilling is recommended.

INTRODUCTION

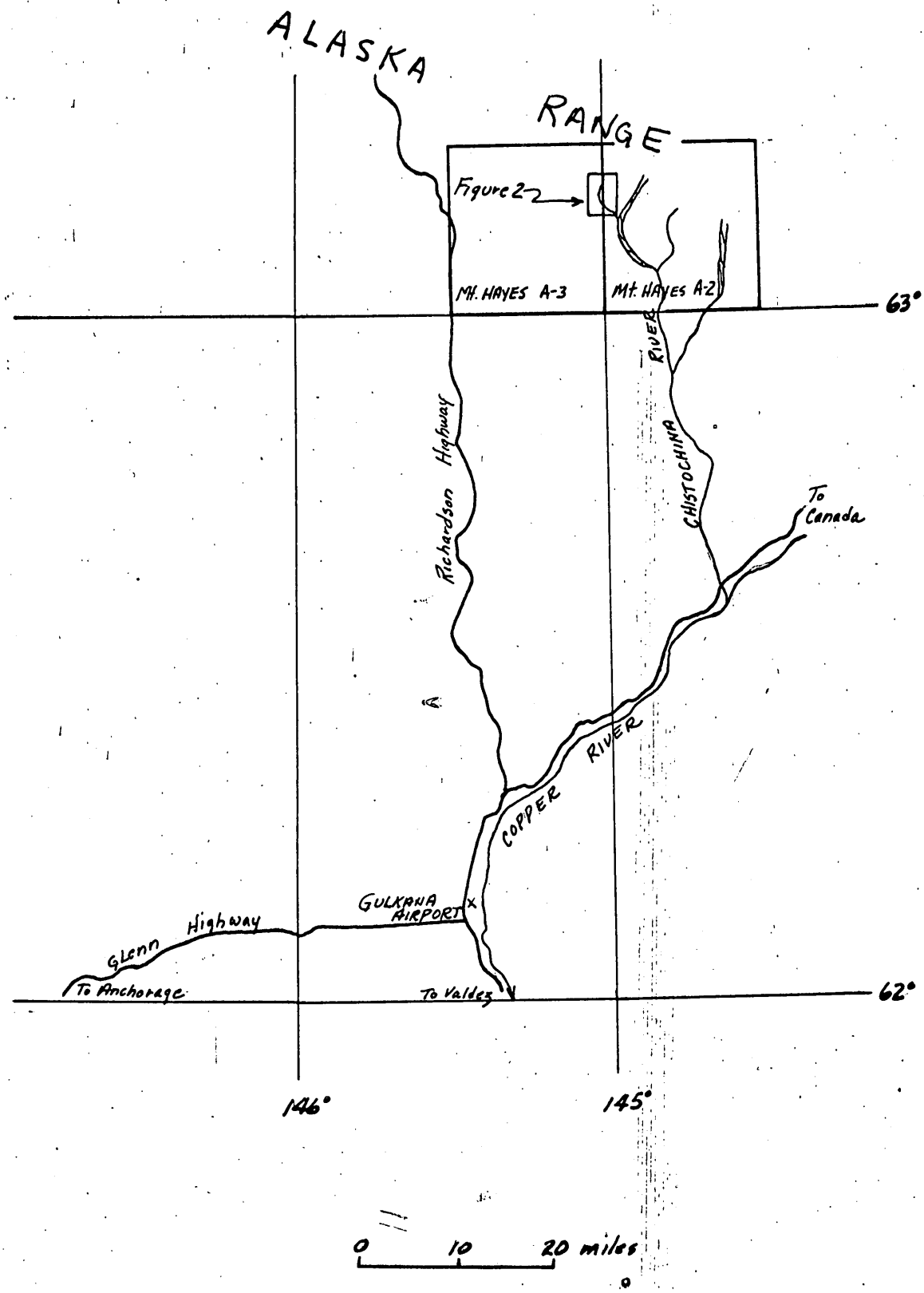
The subject property, which includes some 85 claims, lies across the West Fork of the Chistochina River on the south flank of the Alaska Range in the Mt. Hayes A-2 and A-3 quadrangles (figure 1). An examination was made of the property on September 9, 1967 in company with two of the applicants: Messrs. Norman Moore and Edward Dolney. Due to the large number of claims held, however, only those areas of bedrock exposure and known mineralization were examined.

The property is only accessible by air. A good airstrip, suitable for Cessna 180 or similar aircraft, has been leveled off on the West Fork valley bottom by the applicants. Flight time in a Cessna 180 to the property from Gulkana Airport is approximately 40 minutes.

Elevations range between 3500 and 4000 feet in the claim area, and the relief is relatively gentle. No timber and only very little brush are present. Exposures are poor and generally confined to the valley walls where streams have cut through the thin glacial overburden.

GENERAL GEOLOGY

The exposed bedrock in the area consists principally of a thick series of andesite and dacite flows and minor interbedded volcaniclastic rocks and tuffs of the Permian(?) Chisna Formation (figure 2). The individual flows are generally dense and massive and may be upwards of 100 feet thick. Scoriaceous flow tops and bottoms can be observed between most flow units and some flows are entirely fragmental in character. Flow layering and bedding strikes northwesterly; dips are generally steep and variable. All the rocks have been affected by low-grade regional(?) metamorphism producing abundant chlorite and epidote and giving them their characteristic green color.



Index map of a part of southcentral Alaska

Along the lower limit of the West Fork an altered diorite is exposed. The rock is medium-grained with an equigranular texture and megascopically appears to contain only feldspar and chlorite. The exposures on the southwest side of the West Fork were not visited; the details shown in figure 2 are from Rose (1967).

A number of fine-grained dark green to dark greenish gray dikes intrude the volcanic rocks. Also observed were a few dikes and one large mass of a light gray porphyry, containing phenocrysts of feldspar and hornblende in a fine-grained feldspar-quartz(?) matrix.

ECONOMIC GEOLOGY

Along the tributary of the West Fork, where most of the examining time was spent, the volcanic rocks are conspicuously iron-stained and locally copper-stained (localities 9, 15, 16, 17, 18). These oxidation products are derived from the alteration of massive pyrite and minor chalcopyrite which occurs in veinlets and small segregations scattered throughout the rocks. Most of the veinlets are less than 1 inch wide and are rarely more than a few feet long. A few larger and more persistent quartz-pyrite veins are also present (localities 10, 13, 14), but these appear to be relatively free of copper minerals.

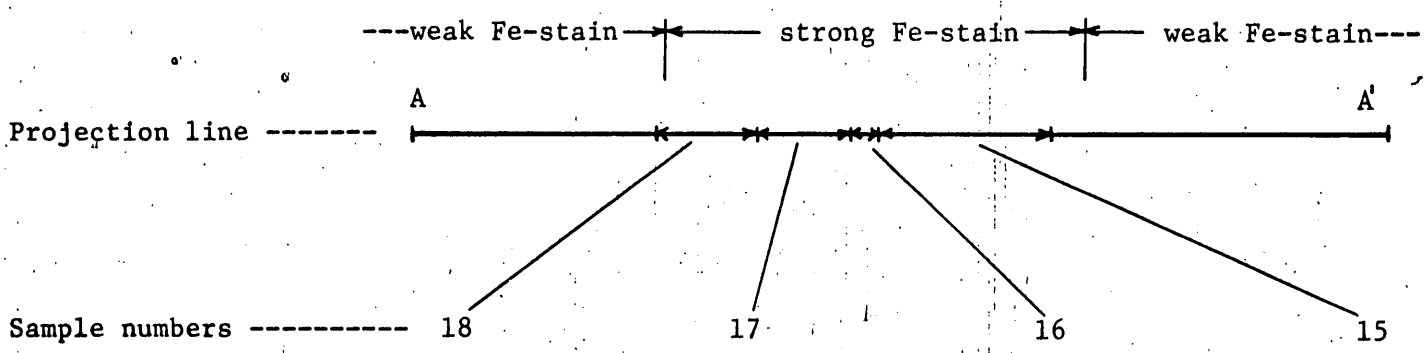
The altered diorite near the mouth of the West Fork is locally highly pyritized (locality 19) and also contains a number of quartz-pyrite veins (locality 20).

Visual examination of the iron-stained exposures along the tributary of the West Fork was not too encouraging as the amount of copper mineralization appeared to be minor. Chip sampling, however, which was done with the thought of possibly disclosing a low-grade gold deposit, turned up some very interesting results (figure 3). Proceeding upstream from the beginning of the strong iron-stained volcanics the first 1000 feet ran 0.11% copper (sample 18), the second 1000 feet 0.22% copper (sample 17), then 200 feet of 1.31% copper (sample 16), and the last section of 1500 feet, 0.38% copper (sample 15). Only trace amounts of gold and silver were found to be present.

Sampling the individual veinlets and veins in the area (figure 4), copper was found to be largely concentrated in the massive sulfide veinlets (locality 9, sample 9) whereas in the quartz-pyrite veins the copper content does not appear to be higher than in the volcanic country rock (samples 10 and 13). Gold and silver values were extremely low both in the sulfide veinlets and quartz-pyrite veins. At locality 9 (figure 4) samples of volcanic rock collected within 5 inches of the sulfide veinlet suggest some wall rock enrichment in copper (sample 9A), but samples across 24 inches on both sides of the same veinlet contained only "normal" amounts of copper (sample 9B).

Figure 3 OME 6614

CHIP SAMPLE LOCATION AND ANALYSES

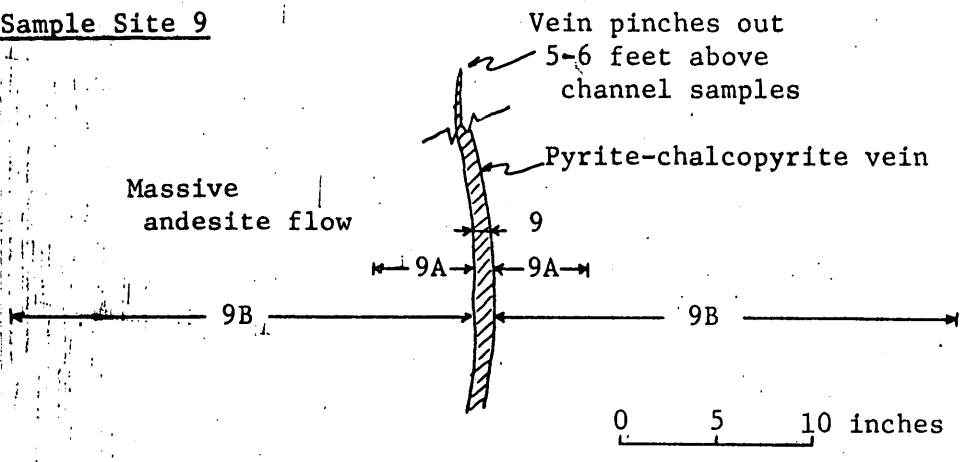


Au (ozs/ton)	trace	trace	trace	trace
Ag (ozs/ton)	trace	trace	trace	trace
Cu (wt. %)	0.11	0.22	1.31	0.38
Ni (wt. %)	none	none	0.16	none
Mo (wt. %)	none	trace	0.007	trace
Length of sample ------	1000 feet	1000 feet	200 feet	1500 feet
Method of sampling -	Composite of 10 chip samples collected every 100'	Composite of 10 chip samples collected every 100'	Composite of 20 chip samples collected every 10'	Composite of 15 chip samples collected every 100'

Scale 1" = 1320'

CHANNEL SAMPLE LOCATIONS AND ANALYSES

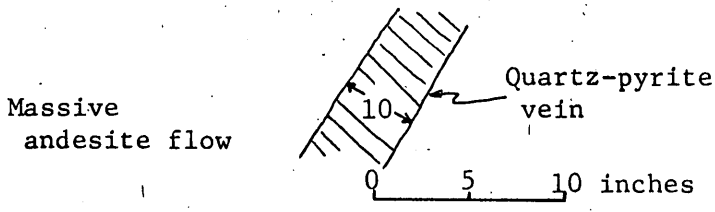
Sample Site 9



Sketch of valley wall, looking north

Sample #	9	9A	9B
Length	1"	10"	48"
Au (oz/ton)	0.02	trace	trace
Ag (oz/ton)	trace	trace	trace
Cu (wt.%)	11.95	0.44	0.27
Ni (wt.%)	0.089	none	none
Mo (wt.%)	0.010	0.013	trace

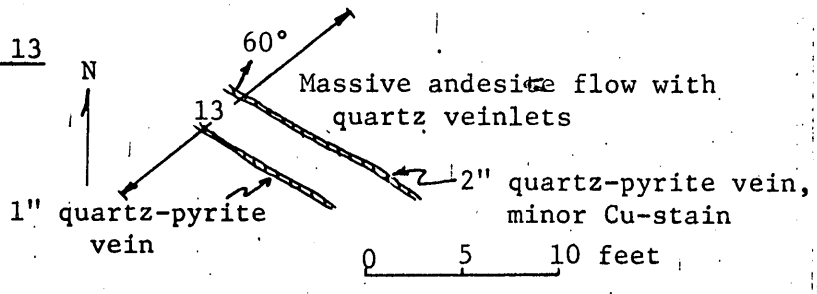
Sample Site 10



Sketch of valley wall, looking east

Sample 10 (5 inches)				
Au	Ag	Cu	Ni	Mo
0.01	trace	0.38	none	0.007

Sample Site 13



Plan of mineralized exposure

Sample 13 (15 feet)				
Au	Ag	Cu	Ni	Mo
trace	trace	0.27	none	trace

NOTE: Au & Ag assays in ounces ton; Cu, Ni, and Mo analyses i weight percent.

Near the mouth of the West Fork the two samples collected in the altered diorite showed nothing of significance. One chip sample across 40 feet of pyritized diorite (sample 19) ran 0.11% copper and a trace of gold and silver. The other sample of a 2" quartz-pyrite vein (sample 20) carried even less copper (0.05%) and a trace of gold and silver.

The genesis of the veins and segregations is not known. Possibly they are confined to a broad fractured zone in the volcanics peripheral to a diorite or granodiorite mass at shallow depths such as the diorite exposed near the mouth of the West Fork. Furthermore, even though exposures are poor, there is no apparent structural or stratigraphic control of the veinlets and segregations, nor is there any obvious preferred orientation of either the small mineralized structures or larger alteration features.

RECOMMENDATIONS

The zone containing 1.31% copper in the iron-stained volcanic unit may be economically significant and further exploration appears justified. However, as the chip sampling method employed during the field examination readily lends itself to unintentional salting, the values reported may not be representative. Hence, should the Government decide to participate in exploring the subject property, I would suggest that either (1) the mineralized zone be resampled by channel sampling prior to formal contract, or (2) that a sampling stage be incorporated in the exploration program. In view of the difficulty in arranging examinations on the subject property, I recommend the latter and propose the following staged exploration program (see figure 5):

Stage I - Channel Sampling

3 lines of channel samples each about 200 feet long with a sample interval of 50 feet.

Stage II - Trenching and Sampling (contingent upon results of stage I)

3 trenches with a total length of about 1000 feet. Channel sampling as in stage I.

Stage III - Drilling (contingent upon results of stage ~~III~~ II)

10 vertical drill holes each with maximum depth of 200 feet.

REFERENCES

Rose, A.W., 1967, Geology of the upper Chistochina River area, Mt. Hayes Quadrangle, Alaska: Alaska Div. Mines and Minerals, Geol. Rept. 28.

U. S. GEOLOGICAL SURVEY
OFFICE OF MINERALS EXPLORATION
345 MIDDLEFIELD ROAD
MENLO PARK, CALIFORNIA 94025

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O. M. E.
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OCT 10 1967

INITIALS	CODE
[illegible]	120 m
[illegible]	110
HK	120

Memorandum

October 9, 1967

To: Don Richter
Alaskan Geology Branch

From: Hal Stager, Field Officer
OME, Region II

Subject: Assays of samples
OME-6614 (Copper, Gold, Silver, Nickel)
West Fork Mining Co.
Eldorado, et al., Groups of Claims
Chitina Recording District, Alaska

Enclosed is an assay report on the 11 samples that you collected at the subject property. All appear to be too low in grade, or thickness, to be of economic importance considering the remoteness of the area, etc. Please give us your report and recommendations as soon as possible.

Many thanks for your time and effort in making this examination for us.

Enclosure

cc: Chief, OME, WDC
Director's RF
ACG RF
MP RF
Docket 6614

HKStager:mlb 10-9-67

R. R. CASTO P. M. CRISMON ORRIN FISHER HAROLD E. CULVER

CRISMON & NICHOLS

ASSAYERS AND CHEMISTS
229-231 SOUTH WEST TEMPLE STREET

PHONE EM 3-7417 P. O. Box 1708

REPORT OF ASSAY

SALT LAKE CITY, UTAH October 3, 1967

U. S. Geological Survey - H. K. Stager

WE HAVE ASSAYED YOUR eleven SAMPLES AND FIND them TO CONTAIN AS FOLLOWS:

DESCRIPTION	NO.	OZS. GOLD PER TON	OZS. SILVER PER TON	PER CENT LEAD	PER CENT COPPER	PER CENT ZINC	PER CENT ~~INSOL.~~ Nickel	PER CENT IRON	PER CENT ~~xxxxxxxx~~ Molybdenum	VALUE OF GOLD PER TON
	9	0.02	Trace		11.95		0.089		0.010	~~70¢~~
	9-A	Trace	Trace		0.44		None		0.013	
	9-B	Trace	Trace		0.27		None		Trace	
	10	0.01	Trace		0.38		None		0.007	~~35¢~~
	13	Trace	Trace		0.27		None		Trace	
	15	Trace	Trace		0.38		None		Trace	
	16	Trace	Trace		1.31		0.163		0.007	
	17	Trace	Trace		0.22		None		Trace	
	18	Trace	Trace		0.11		None		None	
	19	Trace	Trace		0.11		None		None	
	20	Trace	Trace		0.05		None		0.013	

OMG 6614
West Fork

REMARKS:

CRISMON & NICHOLS
BY [signature]

CHARGES $ 170.50

Copy to Mel Tieger

Don M. Richter, Anchorage, Alaska

September 25, 1967

Robert M. Chapman, College, Alaska

West Fork of Chistochina prospect.

OME-6614

Since returning from Anchorage I have talked with Alex Jones of Hanna Company, and he told me that he and one of his men made a quick (one day I think) examination of the West Fork property of Norman Moore and Ed Dolney. His description of it was much the same as what you told me. He mentioned particularly some exposures in a small inconspicuous draw. He took samples, and he was somewhat interested in the property based on his visual examination. Enough so that he attempted to make a deal with them, but the negotiations fell through last fall. Subsequent to this he received the assay results, and they were not as good as he had anticipated.

Alex is quite willing to give us his information and assays, and I suggested that if he is in Anchorage it would be best to talk with you about it. He may get to Anchorage, otherwise he said he would give me the information. At present he does not have intentions of pursuing further negotiations on the property.

RECEIVED
SEP 27 1967
ALASKAN GEOL. BR.
MENLO PARK

cc. Gryc
Dir RF
Div RF
Chron
Subj. file

NOTED
SEP 27 1967
GRYC

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345 Middlefield Road
Menlo Park, California 94025

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gla 120
SK 120
MD 110
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September 25, 1967

Crismon & Nichols
Assayers and Chemists
220 South West Temple
P.O. Box 1708
Salt Lake City, Utah 84110

West Fork Mining ~~Phase Formula~~

OME-6614

Dear Sirs:

Enclosed are eleven (11) samples, marked OME West Fork No. 9, 9A, 9B, 10, 13, 15, 16, 17, 18, 19, and 20. Will you please assay them for gold, silver, copper, nickel, and molybdenum. Send the assays to me at the above address, and send us the invoice for payment as you have in the past.

Sincerely yours,

H. K. Stager
Field Officer
OME, Region II

Enclosures-11 samples
cc: Chief, OME, WDC
Dir RF
ACG RF
MP RF
Docket 6614
HKStager:mlb 9-25-67

OPTIONAL FORM NO. 10
MAY 1962 EDITION
GSA FPMR (41 CFR) 101-11.6

UNITED STATES GOVERNMENT

Memorandum

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SEP 15 1967

INITIALS	CODE
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HK	120
~~(11) samples~~	

9/18

TO : Hal Stager, Field Officer
OME, Region II, Menlo Park

DATE: September 11, 1967

FROM : Don Richter, Anchorage

SUBJECT: Samples - OME-6614 (Copper, Gold, Silver, Nickel)
West Fork Mining Co.

Under separate cover I am sending you the following eleven ~~(11) samples~~ from the subject property for analyses:

Sample No.	Type	Description of material sampled
9	1" channel	sulfide vein
9A	12" channel	volcanic wall rock, both sides of #9
9B	48" channel	volcanic wall rock, both sides of #9
10	5" channel	quartz-sulfide vein
13	15' chip	across volcanic rock containing one 1" quartz-pyrite vein and one 2" quartz-pyrite vein
15	1500' chip - composite of 15 samples	volcanic greenstone
16	200' chip - composite of 20 samples	volcanic greenstone
17	1000' chip - composite of 10 samples	volcanic greenstone
18	1000' chip - composite of 10 samples	volcanic greenstone
19	40' chip	iron-stained diorite
20	2" channel	limonite-quartz vein in diorite

As you may surmize from the nature of the samples, I have attempted to examine the potential of the small high grade veins and also the possibility of ~~the~~ an economic large low grade deposits. I suggest that all samples be assayed for gold and silver and analyzed for copper, nickel, and molybdenum.

I will wait with my report until I have the results of the analytical work.

Don Richter

DH/kp

cc/ R. Chapman, Fairbanks

Buy U.S. Savings Bonds Regularly on the Payroll Savings Plan

5010-108

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ALASKAN GEOLOGY BRANCH
Box 580
COLLEGE, ALASKA 99701

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AUG 28 1967
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gle | 120 M
HD | 110
RMC | 120 S
(for Kirkemo)

August 21, 1967

Mr. D. H. Richter
U.S. Geological Survey
c/o Duffy's - Mile 63 - Alaska
Galena, Alaska

OME-6614

Dear Don:

I have just received your letter of August 19 regarding the proposed field investigation of the West Fork prospect. As you have surmised, my routine business, communication, or future planning has been practically impossible since the 14th. This flood is difficult even for a geologist to comprehend, and it will be a long time before Fairbanks can recover. It is comparable with the chaos in Anchorage after the earthquake, but in some respects is much worse because the destruction is so widespread and we are faced with the onset of cold weather within a month. Throughout the flood plain water damage ranged from wet basements to complete inundation, and we were all hit.

But getting back to the prospect, it does appear that the outlook is unfavorable. However, in view of the formal application for O.M.E. assistance, I believe that we are obligated to make at least a cursory examination and submit a report. If you have enough reliable information, which can be quoted, from the several people you mentioned perhaps this would suffice without a personal visit. I think, though, that your first-hand observations would be considered more reliable, unbiased and authoritative by the Survey and O.M.E. No doubt Art Ross's work was good, but his brief published comment is impossible to reconcile with the operator's assay reports that show at least low grade copper, gold, and silver mineralization. In order to present a convincing case for turning down their application (if this seems in order), we really should have specific field data supported by our own samples and observations of their most recent discovery as well as of the veins cited in the application.

In view of the current disruption of activities in the Fairbanks area I do not know whether Moore or Dolney can accompany you to the property. Hopefully, telephone service will be restored here by August 29, and we can discuss this further when you are back from your field area.

Sincerely,

Robert M. Chapman
Geologist in Charge
College Office

cc: E.H. Stager
Division Mr
Denver Files

Don H. Richter

August 8, 1967

Robert M. Chapman

West Fork of Chistochina O.M.E. investigation OME-6614

In reference to our previous conversation regarding the property on the West Fork of the Chistochina, a field examination is now needed and should be done during August. If you can arrange time for this it will be helpful to us and to the operators, Norman Moore and Ed Delmay.

They have been in there recently and have, they think, made an additional discovery, and in addition have found that some of their proposed trenching will be impractical. I have no means of evaluating what their samples represent, but the assay values indicate that some mineralization is present. It seems clear that a revision of their exploration program should be worked out with them, if the deposits appear to warrant any further work.

If you will call me at your earliest convenience (office 479-7245; home 456-4578), we can discuss further arrangements. I have the O.M.E. docket material that you will need.

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AUG 11 1967

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gla	120
MD	110
HK	120

cc:
Director's RF
Division
GGryc
H. K. Stager

U.S. EXPLORATION
GEOLOGICAL SURVEY
MENLO PARK, CALIF.

Robert M. Chapman
Alaskan Geol. Branch, College, Alaska

July 31, 1967

H. K. Stager, Field Officer
OME, Region II, Menlo Park, Calif.

OME-6614 (Copper, Gold, Silver, Nickel)
West Fork Mining Co.
Eldorado, et al., Groups of Claims
Chitina Recording District, Alaska

Thank you for your memo of July 26, 1967, concerning the subject docket and for contacting the applicants.

Please ask Don Richter to make the examination, per your suggestion, and ask him to give us a report on his findings and recommendations.

cc: Chief, OME, WDC
Dir RF
ACG RF
MP RF
Docket 6614

HKStager:mlb
7-31-67

OPTIONAL FORM NO. 10
MAY 1962 EDITION
GSA GEN. REG. NO. 27
5010-108

UNITED STATES GOVERNMENT

Memorandum

TO : H. K. Stager, Field Officer, OME Region II
Menlo Park

DATE: July 26, 1967

FROM : Robert M. Chapman
Alaskan Geology Branch, College

SUBJECT: West Fork Mining Co., OME-6614 (Copper, Gold, Silver, Nickel); ref. your memo of 7/17/67

In regard to the specific question of financial capability of the West Fork Mining Company applicants, Moore, Dolney, Espland, and Hayford, I talked yesterday with Ed Dolney and he assured me that they will be able to handle the full costs involved in getting the proposed work started under an O.M.E. contract. I particularly pointed out to him the lag-time expected in receiving payment on monthly O.M.E. vouchers.

The statement of Mr. Moore's that Mr. Johnson questioned was meant to imply that they intended to proceed with some work regardless of an O.M.E. loan, but that they do not have enough money to finance the D-9 cat and the exploration trenching program without O.M.E. help. In other words, they hope that the loan can be approved as soon as possible.

Norman Moore and Bob Hayford are out on the West Fork property at present, and Dolney flies out there on weekends. Moore has prepared and sent in with Dolney an answer to Frank Johnson's memo of July 18. They are holding this letter until they get reports on several samples that are now being assayed. They think that they have discovered another mineralized zone, which they will want to comment on, and this may cause them to alter their exploration proposal. Their experience with a bulldozer in the past few weeks has demonstrated that, owing to swampy ground, some of the trenching that was proposed is impractical.

It appears to me that a field examination of their property would be desirable to determine the amount of mineralization that is present, what the geologic relationships are, and what work should be done to best explore this prospect. The reports and assays that these men have presented conflict with the statement by Art Rose (State Division of Mines and Minerals-Geologic Report No. 28, p. 23) that except for a weak iron stain no other evidence of mineralization was noted. My impression is that none of the four men are experienced in prospecting or in evaluating mineral deposits, and an examination of the shows that they seem to have should save them much wasted effort and give us the necessary information to help them modify their application to a reasonable O.M.E. exploration program if one seems justified.

With the commitments I already have for work in the Fairbanks district and for plans yet to be arranged for a helicopter party later in the season in the Livengood quadrangle, I do not feel that I will have time to make an examination of the West Fork property at this time. I would suggest that

if possible Don Richter might make this examination within the next 2-3 weeks, and I think he will be agreeable to doing so. He is now at Slana, which is not far from the West Fork property, and he is more familiar with the geology and mineral deposits of this region than anyone else we have.

There is an 1,800-foot river-bar landing strip at the West Fork property, and I believe that Don could easily charter a plane at or near Slana to take him in to this strip. I will be able to make arrangements with Ed Dolney here so that Moore and Dolney will be at the property to confer with Richter. If this plan is agreeable to all concerned, I will be able to contact Don by phone to work out arrangements and can forward the docket file to him.

Bob

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HK	

Memorandum July 17, 1967

To: Robert M. Chapman
College, Alaska

From: Field Officer
OME, Region II

Subject: OME-6614 (Copper, Gold, Silver, Nickel)
West Fork Mining Co.
Eldorado, et al., Groups of Claims
Chitina Recording District, Alaska

Enclosed is the docket for OME-6614 that we discussed briefly when you were last in Menlo Park. Will you please arrange a meeting with the applicants in Fairbanks and discuss with them the questions raised in paragraph 3 of Mr. Johnson's memorandum of July 13, 1967. If the applicants are financially eligible and a field examination is warranted please make it as soon as you can arrange to do so and give us a report on your findings.

The docket should be returned to this office, with your report, when you have finished. Please keep me informed as to your progress.

H. K. Stager

Enclosure: Docket OME-6614

cc:
Chief, OME, WDC
ACG RF
Dir RF
MP RF
Docket
HKStager:mlb
7-17-67

MME Form 7
(2/63)

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Date	Surname	Code
7/14		120
		220
		120

JUL 14 1967

AIRMAIL

To: Field Officer, OME Region II

From: Harold Kirkemo, Asst. Chief, OME

Subject: OME-6614 (Copper, Gold, Silver, Nickel)
West Fork Mining Company
Eldorado, et al., Groups of Claims
Chitina Recording District, Alaska

Enclosed are 2 prints of the Applicant's claim map and one print each of maps labelled Sampling, Proposed Exploration, and Geology.

These copies will enable you to send one set to Chapman, and to keep one copy for your file.

Harold Kirkemo

Enclosures

cc: Director's reading file
Division file
Economic Geology file
OME docket
OME reading file
Mr. Kirkemo
130

HKirkemo/bih 7/14/67

23263

MME Form 7
(2/63)

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Date	Surname	Code
7/13/67	Kirkemo	120
		110
		220
		120 M

JUL 13 1967

AIRMAIL

To: Field Officer, Region II

From: Chief, Office of Minerals Exploration

Subject: OME-6614 (Copper, Gold, Silver, Nickel)
West Fork Mining Co.
Eldorado, et al., Groups of Claims
Chitina Recording District, Alaska

This application is referred to you for review and recommendations based on consultations by Bob Chapman with the Applicant in Fairbanks, Alaska, and a field examination, if warranted, by Mr. Chapman or other Survey representative in Alaska. Although the Applicant has not completed the application, we believe we can reach an earlier decision on the application by referring it now to you rather than writing to the Applicant again.

In response to our letters of April 7 and June 1, 1967, we received on July 10 an undated letter from the Applicant with some of the information we had requested. Two copies of the new information, exclusive of letters to banks, are enclosed. Map prints will be mailed under separate cover as soon as copies have been made. It is evident from the quality of the material received to date that it would be futile to make further requests for the information needed to complete this application.

Because the four partners comprising the Applicant firm reside in or near Fairbanks, we suggest that Bob Chapman arrange a meeting with one of them, possibly Mr. Norman Moore who proposed the application, to determine whether the Applicant has sufficient funds to pay its share of the costs in the event of an OME contract. Sufficient funds should be available to pay all of the costs of the project for the first two or three months. If the answer to this question is negative, the Applicant is not financially eligible for assistance, and further consideration of the application is not warranted.

The basis for this question is the statement under Item 5 in the recent letter from the Applicant which reads as follows:

23263

"Since the first papers were submitted we have purchased a D9 Cat w/dozer and put it in top shape to go ahead. Needless to say our resources have been sadly depleted. We intend to go as far as we can this season with what we have."

The sketches and assays indicate that the content of copper and nickel in some samples is significant but the sampled vein material is only 0.5 to 1.0 foot wide. More widespread mineralization in the country rocks is mentioned but no assays are reported. Considering the difficulty of access and the short operating season, these individual veins do not appear to offer attractive exploration targets. Under this situation the principal purpose of a field examination would be to determine whether the veins are closely spaced and/or if mineralized material is disseminated over wide areas which might offer possibilities for a large tonnage mining operation.

If exploration is warranted, a specific program should be decided upon with the Applicant. Also, an estimate of costs should be made in support of the estimated costs set forth in an OME contract.

We note that the Applicant is a four-man partnership. In the event of a contract, all four partners must sign the contract. One of the partners, or an authorized agent, should be designated as attorney with authority to sign vouchers and other necessary documents in connection with the contract.

FRANK E. JOHNSON

Frank E. Johnson

Enclosure

cc:
Director's Reading file
Division file
Econ. Geol. Reading
OME Docket
OMEReading
Mr. Kirkemo
Chron.
130

HKirkemo:mch 7-13-67

MME Form 7
(2/63)

OFFICIAL FILE COPY

Date	Surname	Code
7/17/67	Kiohemo	

JUL 13 1967

AIRMAIL

West Fork Mining Co.
326 Baronof Street
Fairbanks, Alaska 99701

Re: OME-6614 (Copper, Gold, Silver, Nickel)
West Fork Mining Co.
Eldorado, et al., Groups of Claims
Chitina Recording District, Alaska

Gentlemen:

Your application for financial assistance in exploring the subject property has been reviewed and referred to Mr. H. K. Stager, Field Officer, Region II, Office of Minerals Exploration, U. S. Geological Survey, 345 Middlefield Road, Menlo Park, California 94025.

We note under Item 5 in your undated letter to us received on July 10, 1967, that your financial resources were seriously depleted by purchase of the D9 Caterpiller, and that you intend to do as much work as you can this season with what you have. In the event of an OME contract, an Operator should have sufficient funds available to pay all costs of the project for the first two or three months. The Government pays its share of the costs at the end of each month after a voucher for the costs incurred has been submitted and approved. It usually takes two or three weeks to process such a voucher. Therefore, the Operator should have funds available to pay all expenses until the first payment is made by the Government, and thereafter to pay such expenses as are chargeable to the Operator. We should have your assurance that you could furnish your share of the cost of the exploration work.

In our letter to you of April 7, 1967, we mentioned the need for you to plan a specific exploration program, and to prepare an estimate of the costs of the work required to complete the program. This information should be submitted in order to complete your application.

23263

The Regional Office will notify you if additional information is needed, and to make arrangements for consultation about your application.

Submittal of the requested information should not be construed as a commitment by the Government that a contract will be prepared.

Sincerely yours,

FRANK E. JOHNSON

Frank E. Johnson
Chief, Office of
Minerals Exploration

cc:
Director's Reading
Division file
Econ. Geol. Reading
OME Docket
OME Reading
Region II (2)
Mr. Kirkemo
Chron.
130

HKirkemo:mch 7-13-67

MME Form 7
(2/63)

OFFICIAL FILE COPY

Date	Surname	Code
6/1/67	Kirkemo	120
		110
6/1	Cal	220
		120M

AIRMAIL

West Fork Mining Co.
326 Baronof Street
Fairbanks, Alaska 99701

JUN 1 1967

Re: OME-6614 (Copper, Gold, Silver, Nickel)
West Fork Mining Co.
Eldorado, et al., Groups of Claims
Chitina Recording District, Alaska

Gentlemen:

On April 7, 1967, we wrote you outlining certain information which is necessary to continue the processing of your application. To date, we have not had a reply to our letter. Will you please inform us of your plans regarding the application. If you have decided not to pursue it further, will you please so inform us.

Sincerely yours,

FRANK E. JOHNSON

Frank E. Johnson
Chief, Office of
Minerals Exploration

cc: Director's Reading File
Division File
Economic Geology File
OME Docket
OME Reading File
OME Region II (2)
Kirkemo

GLAult/a

23263

MML [illegible] 7
(2/63)

OFFICIAL FILE COPY

Date	Surname	Code
4/7/67	Nishemo	

AIRMAIL

West Fork Mining Co.
326 Baronof Street
Fairbanks, Alaska 99701

Re: OME-6614 (Copper, Gold, Silver, Nickel)
West Fork Mining Co.
Eldorado, et al., Groups of Claims
Chitina Recording District, Alaska

Gentlemen:

Preliminary review of your application for financial assistance to explore your claims in the Chitina Recording District, Alaska, shows that additional information must be submitted to complete the application. The items for which more data are needed are as follows:

Received 7/10/67

1. Financial Eligibility:

True copies of your letters to the banks stating date, amount and terms requested, and the proposed use of the funds must be submitted.

✓ OK.

2. Applicant's Rights in Land:

The following differences are noted in the descriptions of the claim groups listed on page 1 of the application, and the claim groups shown on the Sampling Map:

Page 1 of Application	Sampling Map			
wrong Disy Group	9 claims Daisy group	OK	Bonanza Group	26
D. M. Group	17 claims D and M group	OK.	Eldorado "	30
(not listed)	3 claims Question Mark group	OK.	Discovery #1 Lode #1	

These differences should be corrected.

You state under 3-B that "the interest of the applicant is discoverer and owner of 36½ claims." Under 2-B and 5-A, 83 claims are listed, and 86 claims are mentioned on the map showing proposed exploration. Work on claims in which you have no interest is not eligible for OME assistance.

This total covers

23263

A map showing individual claims and a description of the claims you actually own or in which you have an interest must be submitted. Please state the nature of your interest in the claims.

3. Physical Description:

The assays reported in the application, in the assay certificates, and shown on the sampling map must be supported by descriptions of the samples stating width of sample, nature of material sampled, and method of sampling. Locations of the samples must be shown on geologic maps or sketches requested under Exploration Work.

4. Accessibility of Property:

You mention that 20 miles of road work is needed although a freight trail can be used by certain equipment. Although no expenses for this road work are included in your estimate of total costs, we will mention that under this program expenses for road work outside your claims cannot be included in a contract.

5. Exploration Work:

The proposed stripping and trenching is more in the nature of a prospecting program than exploration of specific targets previously defined by geological mapping, sampling, and assaying. Trenches ranging in length from 3/4 to 2-3/4 miles cannot be considered exploratory unless geological structures containing fairly continuous ore bodies are known from previous work. If mineralization is as widespread as you report, maps or sketches must be furnished to show this in greater detail than shown on the geology map submitted with the application. Because of the large area involved and the limited share of this area that your 36½ claims represents, it is important that individual exploration targets are defined, that the specific exploration work planned is shown in relation to these targets, and that the targets are on your claims.

6. Estimate of Costs:

It may be to your advantage to engage the services of a competent geologist or mining engineer for a few days to help you define the exploration targets and to assist you in preparing a plan of exploration. This expense cannot be charged to an OME contract, but allowance for the services of a consultant during operation of a contract can be included in the event a contract is prepared.

Inasmuch as your original plan of exploration may be changed considerably after the information mentioned above has been assembled, your estimate of costs also may be changed.

Submittal of the requested information should not be construed as a commitment by the Government to grant an exploration contract.

Sincerely yours,

FRANK E. JOHNSON

Frank E. Johnson
Chief, Office of
Minerals Exploration

cc: Director's Reading File
Division File
Econ. Geol. File
OME Docket
OME Reading File
Region 2 (2)
Kirkemo

HKirkemo/mm (4/7/67)

April 3, 1967

West Fork Mining Company
326 Baronof Street
Fairbanks, Alaska 99701

Subject: OME-6614

Gentlemen:

Your application for exploration assistance, dated March 27, 1967, submitted to our office at Menlo Park, California, has been assigned Docket No. OME-6614.

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

Sincerely yours,

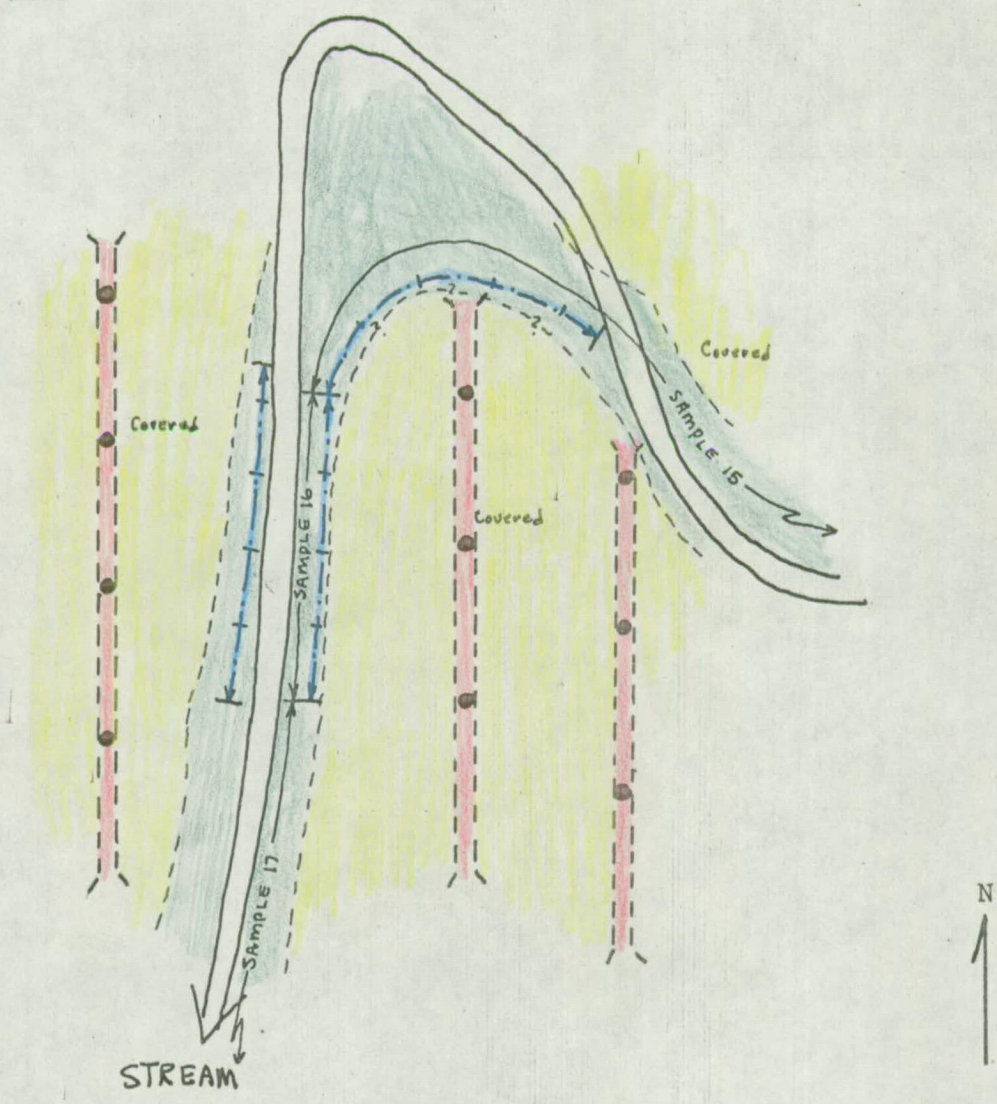
Frank E. Johnson
Chief, Office of
Minerals Exploration

Copy to Region II

OME 6614

Figure 5

PROPOSED EXPLORATION



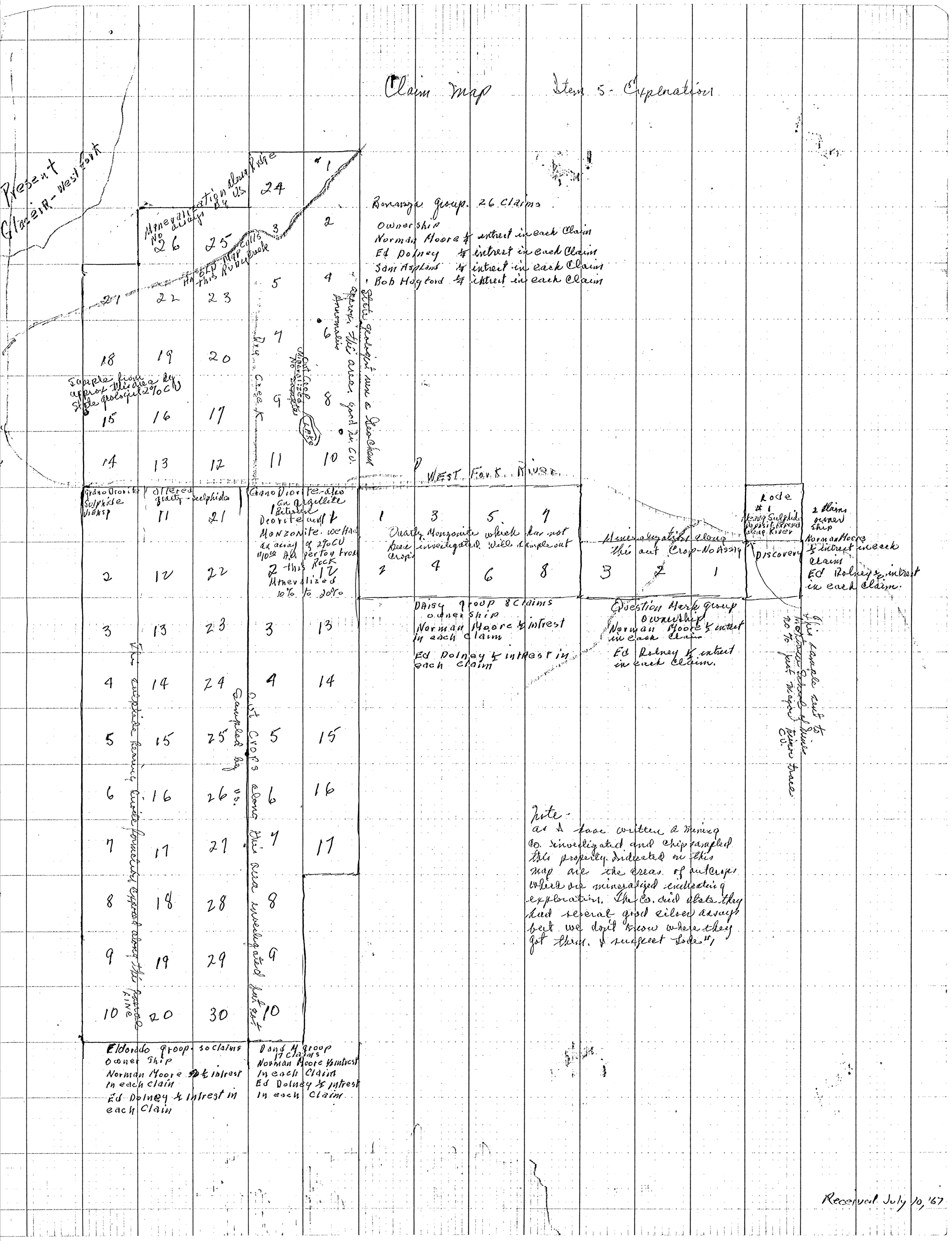
Stage I Channel sampling

Stage II Trenching and sampling

0 100 200 feet

Stage III Drilling

Claim Map Item 5 - Exploration

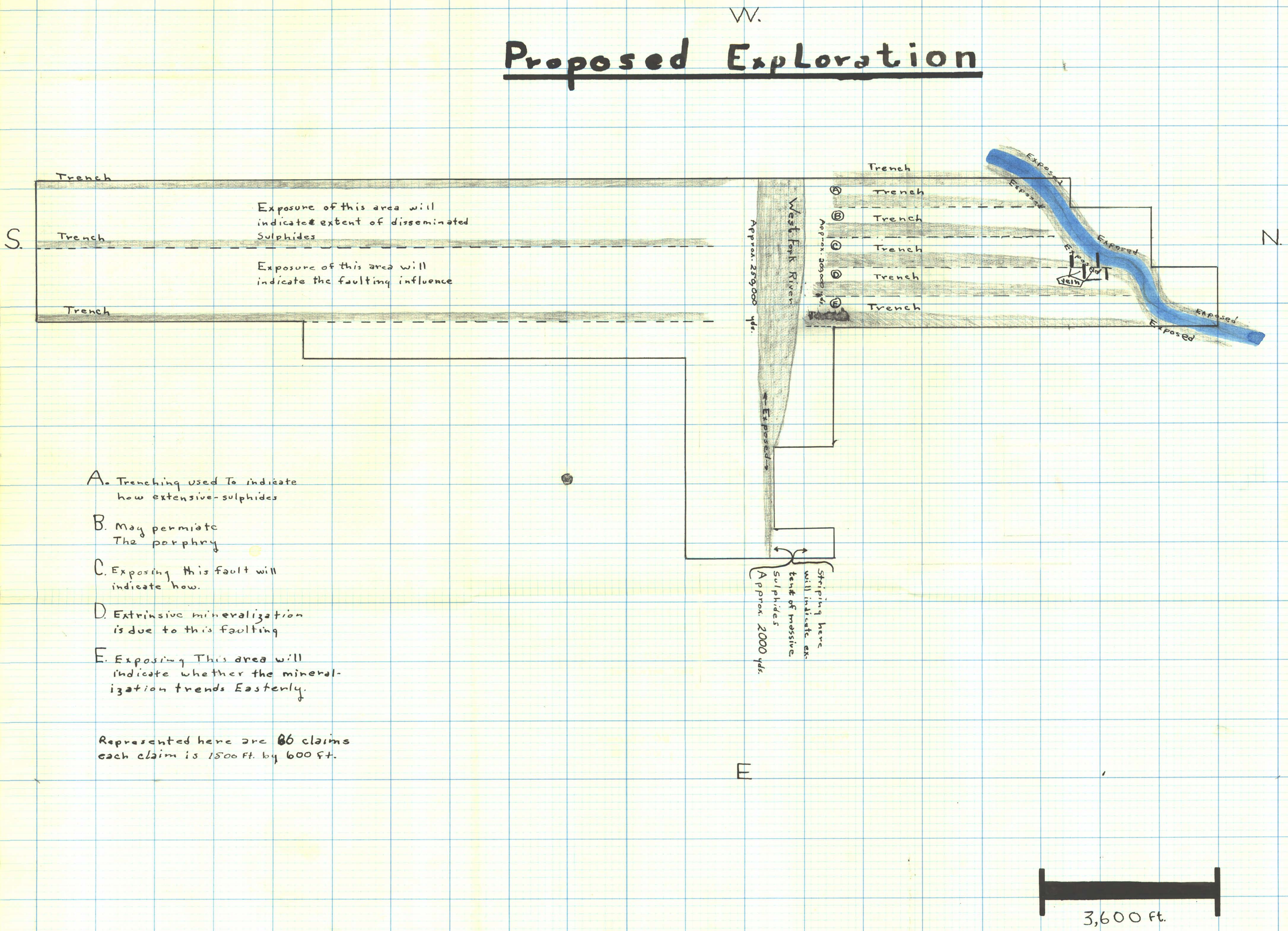


Bonanza group. 26 Claims
Ownership
Norman Moore ¼ intrest in each Claim
Ed Dolney ¼ intrest in each Claim
Sam Aspland ¼ intrest in each Claim
Bob Hagford ¼ intrest in each Claim

Note -
as I have written a Mining Co. investigated and chip sampled this property. Indicated on this map are the areas of outcrops which are mineralized indicating exploration. The Co. did state they had several good silver assays but we don't know where they got them. I suspect Lode #1

Received July 10, '67

Proposed Exploration



A. Trenching used To indicate how extensive-sulphides

B. May permiate The porphry

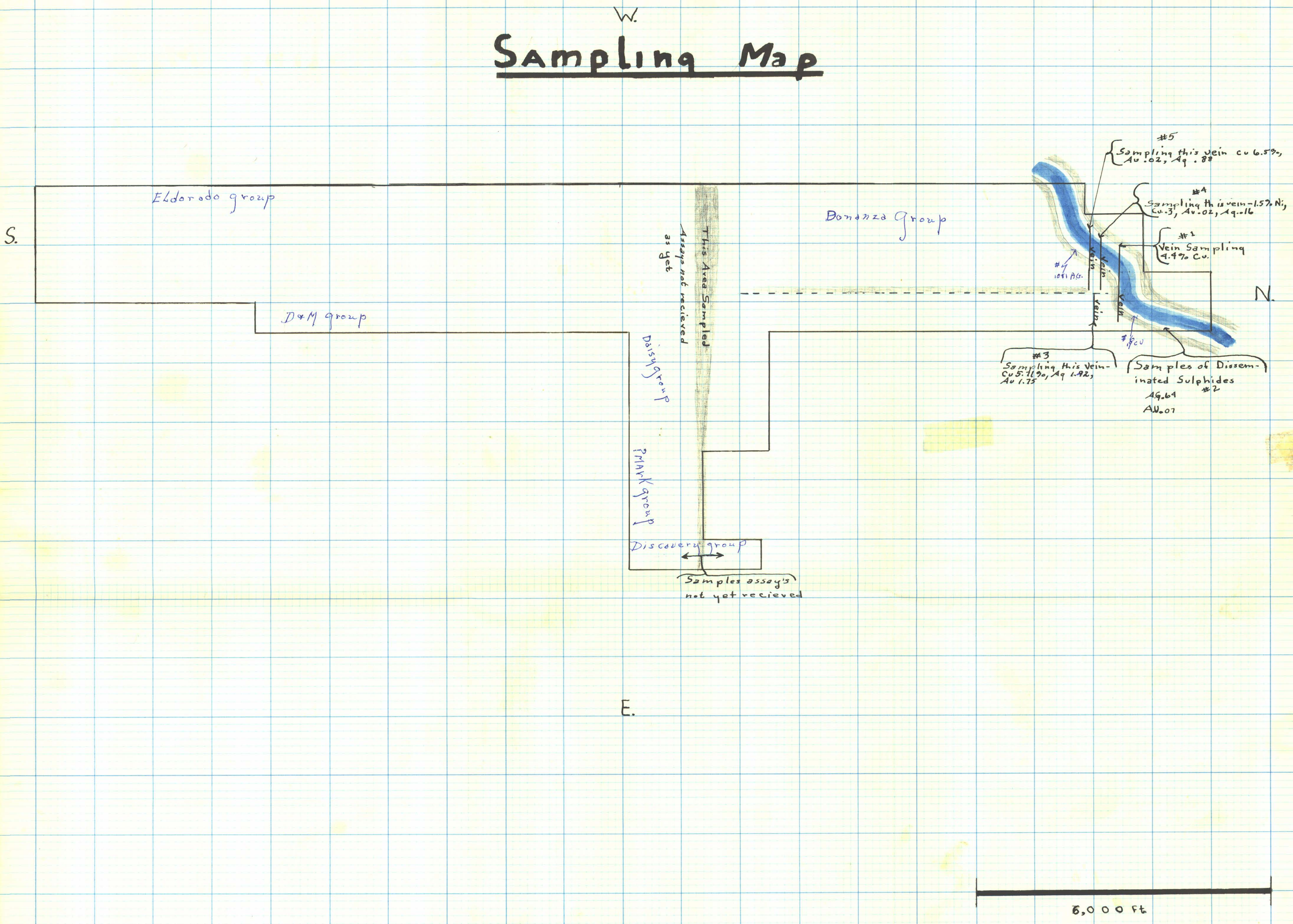
C. Exposing this fault will indicate how.

D. Extrinsive mineralization is due to this faulting

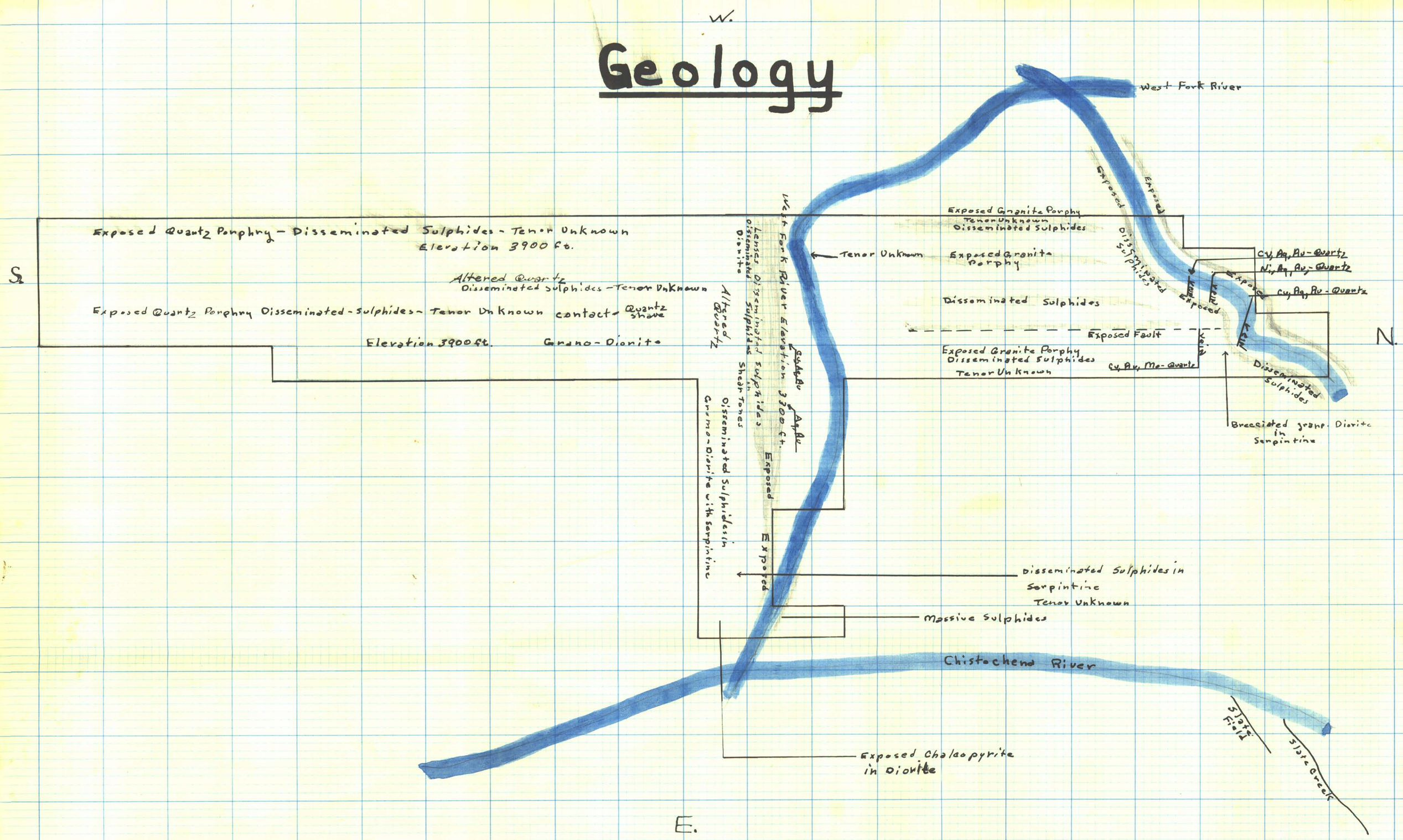
E. Exposing This area will indicate whether the mineralization trends Easterly.

Represented here are 86 claims each claim is 1500 ft. by 600 ft.

Sampling Map



Geology


W.
S.
N.
E.
West Fork River
Exposed Quartz Porphry - Disseminated Sulphides - Tenor Unknown
Elevation 3900 ft.
Altered Quartz
Disseminated sulphides - Tenor Unknown
Exposed Quartz Porphry Disseminated - sulphides - Tenor Unknown
contact - Quartz shave
Elevation 3900 ft.
Grano - Diorite
Altered Quartz
Lenses Disseminated sulphides in Diorite
Disseminated sulphides in Shear Zones
Disseminated Sulphides in Grano-Diorite with Serpintine
West Fork River Elevation 3300 ft.
Cu, Ag, Au
Ag, Au
Exposed
Exposed
Tenor Unknown
Exposed Granite Porphy
Tenor Unknown
Disseminated Sulphides
Exposed Granite Porphy
Disseminated Sulphides
Exposed
Exposed
Exposed
Exposed
Cu, Ag, Au - Quartz
Ni, Ag, Au - Quartz
Cu, Ag, Au - Quartz
Exposed Fault
Vein
Exposed Granite Porphy
Disseminated Sulphides
Tenor Unknown
Cu, Au, Mo - Quartz
Disseminated Sulphides
Breccia ted grano. Diorite in Serpintine
Disseminated Sulphides in Serpintine
Tenor Unknown
Massive Sulphides
Chistochena River
Exposed Chalcopyrite in Diorite
Slate Field
Slate Creek
3,600 ft.

OME 6614

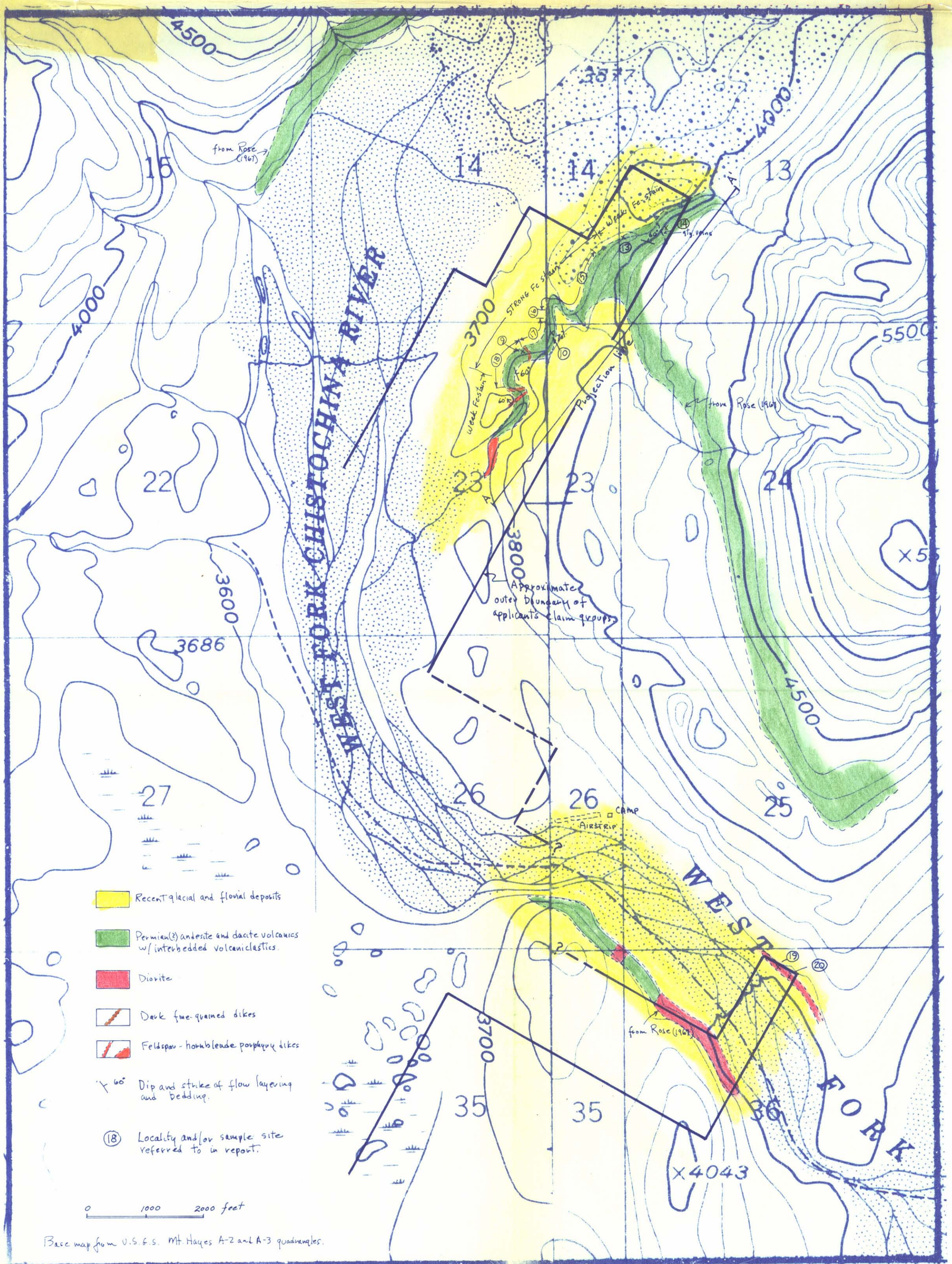


Figure 2. Map of the West Fork Mining Co. property showing geology and sample sites.