MME Form 9
Rev. Nov. 65

UNITED STATES
DEPARTMENT OF THE INTERIOR
Geological Survey

OFFICIAL DOCKET FILE

Contract No. _____ Docket No. 6844

Application
- [ ] Denied
- [x] Withdrawn

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

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

Folder No. 1:

Left Side

- [ ] Royalty Audits
- [ ] Certification of Discovery
- [ ] Closing Letter
- [ ] Cost Audits
- [ ] Termination Notice or Agreement
- [ ] Recision Notice
- [ ] Assignment of Contract
- [ ] Contract Amendments
- [ ] Contract with all exhibits and annexes
- [ ] Owner's Consent to Lien and Subordination Agreement
- [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
- [ ] On-site Exam. Report (Tab)
- [ ] Settlement Sheets
- [ ] Drill Logs

Additional Folders:

Left Side

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

Right Side

- [ ] Field Team Semiannual Report for Certified Project
- [ ] Field Team Interim Reports
- [ ] Operator's Monthly Reports with Transmittal, Narrative and Maps

Folders No._____: Maps (Use pocket folder or envelope)

Folders No._____: Settlement Sheets

Folders No._____: Drill Logs

Folders No._____: Royalty Material

72195-65

UNITED STATES
DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY
Office of Minerals Exploration
345 Middlefield Road
Menlo Park, California 94025

April 22, 1971

OFFICIAL
COPY
O. M. E.
RECEIVED
APR 26 1971
INITIALS | CODE

Memorandum

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

From: Field Officer
Region II

Subject: New Application (Gold)
Morton S. Dismuke
Stony River Claims
Kuskokwim Recording District, Alaska

Enclosed is a new application, received in the Field Office on April 22, 1971. Two copies have been retained in the Field Office.

The information appears to be reasonably complete except for more detailed cost data. I have asked Mr. Dismuke, during telephone conversations I have had with him, to obtain several bids for the type of work proposed and to forward this additional information as soon as possible. Costs are high as the claim area is remote and is only accessible by air. The Applicant's proposal to furnish his share of the costs by his labor would not be sufficient as this would only equal about 10 percent of the total costs. An additional $5,000 minimum in cash would be required. A financial statement should be requested.

H. K. Stager

Enclosure

DISMUKE & DISMUKE
ENGINEERS - SURVEYORS
442 LINCOLN AVENUE, P. O. BOX 626 • STEAMBOAT SPRINGS, COLORADO 80477 • (303) 879-1631

April 16, 1971

Mr. Harold K. Stager
Office of Mineral Exploration
U.S. Geological Survey
Building #2
345 Middlefield Rd.
Menlo Park, Calif. 94025

Dear Mr. Stager,

I am submitting herewith 3 copies each of an application and supporting documents requesting O.M.E. loan assistance for the purpose of exploration drilling on 32 unpatented placer claims in Alaska.

We are in the process of getting a bid for drilling these claims from a contract driller in Anchorage, Alaska, and will forward that as soon as possible.

Because of the short working season we ask your consideration in processing this application as quickly as possible.

If you need further information, please do not hesitate to call me collect at the above number.

Sincerely,

M.S. Dismuke

RECEIVED
APR 22 1971
OFFICE OF MINERALS EXPLORATION
U.S. GEOLOGICAL SURVEY
MENLO PARK, CALIF.

He will getting 30 yr
~~Tony 2nd Sat. Sundy~~
~~Free to bring guest.~~

Call Putnam's Esso
723-9380

1. (a) OK.
(b) — not applicable
(c) - Furnishing most of labor — *

2 (a) - Owner
(b) - OK
(c) - Not applicable

3(a)
OK
g

4. OK

5. By test holes all map

6. OK

7. Est. of costs - Stager requested bids for proposed work from applicant

MMI Form 40
Revised Nov. 68)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Approval Expires Dec. 1971

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.)*

Morton S. Dismuke
P.O. Box 626
Steamboat Springs, Colorado 80477

APPLICANT DO NOT USE THIS BLOCK

DOCKET NUMBER 6844

DATE RECEIVED 4-26-71

REGION II

DIVISION CODE

BUSINESS ORGANIZATION *(Check one)*

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

STATE IN WHICH FIRM IS ORGANIZED

LIST CORPORATE OFFICERS OR PARTNERS HERE, IF APPLICABLE

NAME	ADDRESS	TITLE

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

ESTIMATED COST OF PROJECT: $ 34,000

PROPERTY NAME	LOCATION COUNTY	STATE
Stony River claims Nos. 1 thru 32	Kuskokwim Recording Dist.	Alaska

GENERAL INSTRUCTIONS

Before filling out this application, please read the *OME Regulations for Obtaining Federal Assistance in Financing Explorations for Mineral Reserves* (30 CFR Chap. II). To assure prompt action, your application must provide all applicable material and information specified on the back of this application form. Avoid unnecessary correspondence and delays by submitting complete and accurate information. *Please submit two copies of this application and all accompanying papers* except as otherwise noted. Place your name and address on each sheet. Each item of information, maps, and reports required as a part of this application is described on the back of this form. Identify each attached statement by the item number to which it applies. If an item does not apply to your application, show the item number on your statement and after it write "not applicable." Maps or sketches should be used to supplement narrative descriptions of the property location and boundaries in item 2, existing mine workings and geology in item 3, and the proposed exploration work in item 5. When this information is not too complex, all of it may be shown on one map or sketch. All documents and other attachments submitted as a part of this application, except those in item 3(g) which you mark to be returned, become the property of the Government and will not be returned to the applicant. Send true copies, *not originals*, of leases, contracts, and other documents which are an essential part of your business records. *File this application with the Department of the Interior, U.S. Geological Survey, Office of Minerals Exploration, Washington, D. C., 20242, or with the nearest OME Field Office.*

CERTIFICATION

The undersigned, whether as an individual, corporate officer, partner, or otherwise, both in his own behalf and acting for the applicant, certifies that the information set forth in this form and accompanying papers is correct and complete, to the best of his knowledge and belief, and that he would not ordinarily undertake the proposed exploration under current conditions and circumstances at his sole expense.

4-16-71
DATED

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 (1) true copies of your letters to credit sources which show date of loan request, amount and terms requested, and proposed use of loan funds and (2) true copies of replies from credit sources. If the loan was offered under terms which you consider unreasonable, state why you consider them so.

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

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

2. Applicant's Rights in Land:

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

(b) State the legal description (section, township, and range; metes and bounds; patent number of claims) of the land upon which you wish to explore and all adjacent land which you own or control. Describe any part of the land or workings which should not be subject to Government royalty and liens. If the land consists of unpatented claims, state book and page number for each recorded location notice, 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 signed by owner on MME Form 52. If the agreements cannot be obtained, state reasons and whether you can furnish a performance bond.

3. Physical Description:

(a) Describe in detail and illustrate with maps or sketches all mining or exploration operations which you know have been or are being conducted upon the land. Include existing mine workings and all production facilities.

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

(c) State, if you know, the past and current production, supporting your statement with copies of settlement sheets, mine records, or published data if available.

(d) Describe known ore reserves, giving quantities and grades.

(e) Describe by narrative and maps or sketches the geologic features of the property, including ore minerals, geologic formations if known, and type of deposit (vein, bedded, etc.).

(f) If you have sampled the area you propose to explore, show where the samples were taken, describe sampling methods used, and provide copies of assay certificates. State your reasons for expecting to find ore.

(g) Send with your application at least *two* copies of all geologic or engineering reports, assay maps, or technologic information which you have, indicating whether you require their return.

4. Accessibility of Property:

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

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

5. Exploration Work:

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

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

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

6. Experience:

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

7. Estimate of Costs:

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

(a) Independent contracts. State the total cost of any proposed independent contract for all or any part of the work, and the number of units and the unit cost for each type of work, such as per foot of drilling, per foot of drifting, per hour of bulldozer operations, or per cubic yard of material moved. Cost estimates should be supported by bids from three contractors if possible. (*Note*—If none of the work is to be contracted, write "none" after this item.)

(b) Personal services. The cost of supervision, engineering and geological services, outside consultants, and labor should be itemized by numbers and classes of employees; rates of wages, salaries or fees; and periods of employment. State whether these services are available.

(c) Operating materials and supplies. List items of material and supplies giving quantity and price of each. Include under this heading power, water, and fuel, and units of equipment and tools costing less than $50 each.

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

(e) Initial rehabilitation and repairs. Describe the type and the cost of *initial* rehabilitation or repair of existing buildings, fixtures, installations (exclusive of mine workings), and movable operating equipment now owned by the applicant which will be used in the exploration work.

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

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

INFORMATION REQUESTED WITH APPLICATION

1. (a) Letters from 2 banks - attached.
   (b) None
   (c) By furnishing most of the labor.

2. (a) Owner 32 unpatented claims
   (b) See attached list.
   (c) Does not apply.

3. (a) through (g) see Geology report.

4. (a) None available at this date.
   (b) See Geology report.

5. (a) & (b) See Geology report.
   (c) Equipment could begin moving into the area within one week after contract is executed or by May 3o, 1971, whichever is later, and the work could be finished by October 9, 1971.

   Two weeks would be required to move equipment into the area, rough out landing strip, assemble equipment and set up camp. Thereafter one completed test hole every 3 days would be scheduled.

6. I am an Engineer and Land Surveyor by education and occupation, have had experience in operating churn drilling equipment in soil and water well testing. Also several years experience in operating all types of construction equipment as project engineer or as project superintendent on highway and bridge construction.

   I have been mineral prospecting and evaluating as an avocation since 1961 and will be directly in charge of this operation.

7. (a) Moving equipment in and supply flights.

5 Flights by "Otter" floatplane	$2,000.00
24 Flights by Cessna '185' wheelplane	$2,660.00

   Moving equipment out.

5 Flights by "Otter" floatplane	$2,000.00
6 Flights by Cessna '185' wheelplane	$ 990.00

M.S. Dismuke
Box 626
Steamboat Springs,
Colorado 80477

7. (b) Personal Services:

One Supervisor & Driller	- $250/wk for 15 weeks	$3750
One Mechanic & Welder	- 200/wk for 16 weeks	3200
One Laborer	- 150/wk for 16 weeks	2250
One Cook	- 150/wk for 15 weeks	2100
Complete analysis by others of concentrates from each hole	20/hole	620

All of the above services are available.

(c) Operating materials and supplies:

600 gallons of gasoline	300
___ gallons of oil	
___ pounds of grease	50
Food and Misc.	2155

(d) Operating Equipment:

Hillman Placer Drill - rental	$1000/month	4000
Case Model 310 Dozer with Winch - rental	1000/month	4000
Denver Goldsaver - rental	200/month	800
Chainsaw - purchase		250
Welding equipment - purchase		300
Camping equipment - tents, stoves, etc. provided by applicant.		

(e) None

(f) None

(g)

$100 per week for maintenance & repairs	1600
Workmans Compensation & Employees Liability Ins. - Payroll taxes	975

M.S. Dismuke
Box 626
Steamboat Springs,
Colorado 80477

THE ROUTT COUNTY NATIONAL BANK

STEAMBOAT SPRINGS, COLO. 80477

DELANO E. SCOTT
PRESIDENT

TELEPHONE
303 - 879-0550

April 7, 1971

Mr. M. S. Dismuke
City

Dear Mr. Dismuke:

Our Discount Committee has disapproved your application for a $25,000 loan with the proceeds to be used for exploration work on thirty-two unpatented placer claims in Alaska for the reason that this would be a non-conforming loan for us to make since it is out of our trade area and would be highly speculative from our point of view.

We are sorry we are unable to help you in this instance and do want to wish you success in the development of these claims.

Yours very truly,

Delano E. Scott

President & Chairman of the Board

DES:gbc

MEMBER FEDERAL DEPOSIT INSURANCE CORPORATION

THE ROUTT COUNTY NATIONAL BANK, STEAMBOAT SPRINGS, COLORADO

APPLICATION FOR LOAN

Name M.S. & Virginia Dismuke Address Box 626, Steamboat Springs, Colo.

Bank Account, Where Kept Routt County Nat'l Bank Date 4-5-71

Location Steamboat Springs, Colo.

Amount $25,000.00 Advance, See Budget Time 5-30-71

Reason Exploration on 32 unpatented placer claims.

Signer None Taxes

Plan of Payment Minimum 25 years payout

Estimated Income: ____head Cattle $____; ____head Lambs $____; Miscellaneous $____

Other Income

Property owner, consisting of Value

Tenant, whose place

Summer Range

Other leased land

Owing on Real Estate, to whom

Other obligations to Loan or Finance Companies

Local accounts

Age 49 Married yes Life Insurance $20,000

Reference

Remarks

Approved Disapproved

Loan Committee remarks Non-Conforming

Chattel Mortgage Record

Disbursements of loan

THE ROUTT COUNTY FEDERAL
SAVINGS & LOAN ASSOCIATION
OAK CREEK, COLORADO - 80467

April 7, 1971

Mr. M. S. Dismuke
Steamboat Springs
Colorado 80477

Dear Mr. Dismuke:

Your application in the amount of $25,000.00 loan has been turned down by the Trustees for our Association. This was for work on unpatented placer mining claims. This does not meet our requirements, so we are unable to make you the loan.

We thank you for considering us and hope you will consider us in the future if we can be of service.

Very truly yours,

Cecil Rorex

Cecil Rorex, Trustee
Routt County Federal Savings and Loan Association

CR/sc

April 5, 1971

Routt County Federal
Savings & Loan Assn.
Oak Creek, Colorado 80467

Gentlemen,

Please consider this an application for a loan of $25,000.00. The funds are to be used for exploration drilling on 32 unpatented mining claims in Alaska.

I would want the monies to be repaid over a period of 25 years with prepayment priviledges.

Respectifully submitted,

M.S. Dismuke
Box 626
Steamboat Springs, Colo. 80477

2(b)

List of Stony River Placer Mining Claims filed in the Kuskokwin Recording District of Alaska.

Stony River No. 1, as filed in Book 7, Page 134
Stony River No. 2, as filed in Book 7, Page 135
Stony River No. 3, as filed in Book 7, Page 136
Stony River No. 4, as filed in Book 7, Page 137
Stony River No. 5, as filed in Book 7, Page 138
Stony River No. 6, as filed in Book 7, Page 139
Stony River No. 7, as filed in Book 7, Page 140
Stony River No. 8, as filed in Book 7, Page 141
Stony River No. 9, as filed in Book 7, Page 157
Stony River No. 10, as filed in Book 7, Page 158
Stony River No. 11, as filed in Book 7, Page 159
Stony River No. 12, as filed in Book 7, Page 160
Stony River No. 13, as filed in Book 7, Page 161
Stony River No. 14, as filed in Book 7, Page 162
Stony River No. 15, as filed in Book 7, Page 163
Stony River No. 16, as filed in Book 7, Page 164
Stony River No. 17, as filed in Book 7, Page 165
Stony River No. 18, as filed in Book 7, Page 166
Stony River No. 19, as filed in Book 7, Page 167
Stony River No. 20, as filed in Book 7, Page 168
Stony River No. 21, as filed in Book 7, Page 169
Stony River No. 22, as filed in Book 7, Page 170
Stony River No. 23, as filed in Book 7, Page 171
Stony River No. 24, as filed in Book 7, Page 172
Stony River No. 25, as filed in Book 7, Page 173
Stony River No. 26, as filed in Book 7, Page 174
Stony River No. 27, as filed in Book 7, Page 175
Stony River No. 28, as filed in Book 7, Page 176
Stony River No. 29, as filed in Book 7, Page 177
Stony River No. 30, as filed in Book 7, Page 178
Stony River No. 31, as filed in Book 7, Page 179
Stony River No. 32, as filed in Book 7, Page 180

M.S. Dismuke
Box 626
Steamboat Springs,
Colorado 80477

Geology of the Camp Creek-Stony River Placer Claim Group, Alaska.

By: William A. Bowes
Mining Geologist BS, MS
P. O. Box 160
Steamboat Springs, Colorado 80477

Introduction:

At the request of the owner, Morton Dismuke, the writer has assembled all available information to aid in planning a 1971 summer program of exploration aimed at determining if economically extractable placer gold is present in the confines of the Stony River (1 to 32) claims. The claims are not original, but are staked over the site of former placer claims with reported production in 1900 and 1923. The purpose of Dismuke's effort is to relocate and test a historically interesting placer prospect area.

Location:

The Stony River claim group lies approximately 135 airline miles west of Anchorage, Alaska (see index map, plate 1). The claim group straddles about four miles of Camp Creek, a tributary to the Necons River, which in turn flows into the Stony River about six miles southwest of the claim group. More precisely the claims lie in sections 9, 10, 11, 15, 16, 17, 18, 19 and 20; T11 N, R26 W, Seward Meridian, as shown on accompanying maps.

History:

The present claim area was first discovered by Ed Sterling of Old Knik, Alaska. According to a friend and later locater, Frank B. Camp of Fairbanks, Alaska, Sterling recovered $22,000.00 in gold in 1900. Camp located 32 claims (over a length of 4 miles) from July 23, 1922 to February 2, 1925. These claims were filed at McGrath, Alaska, on April 17, 1925, in four groups of 8 claims each. Camp reported an additional $1,600.00 in gold recovered from seven test pits during these years.

On June 3, 1952, Camp returned a letter to an interested friend, Charles W. Monroe, a guide at Fairbanks, Alaska, describing the location of the claims he filed 30 years earlier, and wished Monroe luck. Monroe later met Mr. Dismuke in Houston, Texas, and interested

M.S. Dismuke
Box 626
Steamboat Springs,
Colorado 80477

History (Continued):

him in a venture into the area. Dismuke first financed the Alaskan work in 1961, and last fall Monroe and Dismuke flew equipment into the area and dug two test pits. They located a new group of 32 claims from August 30 to October 10, 1970, called the Stony River Claims.

Geology:

The geology of the Camp Creek-Stony River Claim area is included in USGS Bulletin 862, 1935, 101P, by Stephen R. Capps, entitled "The Southern Alaska Range." Base maps in this report are drawn on a scale of 1/250,000, and the information is used in this report.

The Necons River-Camp Creek basins drain the west slope of the extreme southern end of the Alaska Range (see Plate 2). USGS Topographic Quadrangle Lime Hills (A-3, Plate 3), 1:63360 covers this area and is included in this application as a base for the geologic map. The Alaska Range in this region is composed of a mosaic of Mesozoic granites which have been intruded into uplifted older Mesozoic bedded rocks. The bedded rocks (upper Cretaceous and older and shown on the maps as Msg) consist of undifferentiated argillites, slates and graywackes with lesser amounts of sandstone, conglomerates, tuffs, and flows. They are part of a large mass of thick eugeosynclinal deposits which occur over much of southern Alaska. These rocks have been subjected to various degrees of both dynamic and thermal metamorphism. The granitic rocks which have been intimately intruded into this bedded sequence are responsible for much of the metamorphism.

In the Necons-Upper Stony River basins, near Two Lakes and the Stony River claim group, these metasedimentary outcrops are black argillites and slates with some dark gray graywackes. Outcrops near the granite intrusives show schisotose cleavage and addition of mica, silica, pyrite and andalusite. Beds are closely folded and dip at all angles; northeast trends prevail. North and south of this zone the beds are less folded; they form slabbly angular outcrops and exhibit slaty cleavage.

The granitic rocks (Gr on maps) range in composition from a sodic granite to diorite; all tend toward a porphyritic texture with spar and hornblende and/or biotite phenocrysts. They are medium to coarse grained, completely crystalline, pink to white in color and are cut by both granitic and basic dikes. The source of the alluvial gold at the Stony River claim group is probably the granite-metasedimentary contacts and related quartz veins.

Scattered outcrops of Tertiary tuffs and flows locally overlie the

M.S. Dismoke
Box 626
Steamboat Springs,
Colorado 80477

Geology (Continued):

Mesozoic complex. These are part of the Mulchatna-Stony River Volcanics (T L on maps). In the upper reaches of the Stony-Necons Rivers, varigated tuffs and agglomerates are interbedded with flows of basaltic to rhyolitic compostions. These units show only minor folding and are not as structurally deformed as the underlying Mesozoic complex. Vents related to the tuffs and flows are not recorded in the immediate area, but are present in an alignment paralleling the coastline 40 miles to the south and east,(See Plate 1).

Surface cover of all types is lumped into one classification on the geologic maps as Qal-Qmg. Included are morainal and stratified drift of both Present and Pleistocene glaciation. Other cover types are soils, alluvial and colluvial deposits. Alluvial gold placers forming at present and those formed in the past are included in this category. Pleistocene mountain glaciers occupied all the major valleys, and successive ice advances may have scoured out many older gold placers. But due to topographic position, older placers may be preserved on the Stony River claim group.

Geologic History:

In Cretaceous time the Alaska Range was the site of thick deposits of stream gravels, sand, and silt, organic matter, and lava flows. The land mass was subject to orogenic movements, intrusive and volcanic activity in late cretaceous and early tertiary time, during which the surface was elevated to form a mountain range, and upon which rivers carved valleys. By the end of tertiary time the drainage resembled the present one, and placer gold deposits were formed below mineralized metasedimentary-igneous contact zones in the Two Lakes region. Pleistocene mountain glaciers then filled the drainages and obliterated or dispersed the placer deposits in the path of main ice advances. The Stony River claims are located at the edge of the valley glacial debris and may expose remnants of the original pre-glacial placer deposits.

Access:

There are no roads or trails leading into the prospect area. The fastest, cheapest transportation at present is by float plane from Anchorage, approximately 135 air miles distance (to Two Lakes). The South arm of Two Lakes is 3 miles from the property; Mr. Dismuke plans to fly in a small tractor by float plane and build a skid road to the property. It may be possible to build a good air strip on the property itself by clearing out brush with the tractor (see photos 2 and 3, and Plate 4) to make possible convenient access by a variety of standard wheeled aircraft.

M.S. Dismuke
Box 626
Steamboat Springs,
Colorado 80477

Access (Continued):

Judging from previous excursions by Stephen R. Capps of the USGS, using pack trains, the normal summer working season extends from early June thru mid-September, a total of 100 days. As much time was expended merely getting about, Capps experienced 50 to 70 days of productive field work, and days of bad weather must be subtracted. Dismuke was able to extend his field season into October, but with float plane access only, this can be dangerous. Land air strips could extend the normal working season into the freezing months.

Economic Geology:

The Stony River Placer Claims, No. 1 through 32 (plates 3 & 4), are recorded in the Kuskokwim Recording District Book 7, pages 134 thru 180. The claims were recorded on November 28, 1970 (1 to 8), and January 2, 1971 (9to 32) as requested by Dismuke, P. O. Box 626, Steamboat Springs, Colorado 80477. Staking and discovery work were performed by Dismuke and Monroe between August 30, 1970, and October 10, 1970.

Photo 1 is a general air view showing the ridge of discolored and pyritized intrusive-metasedimentary rock on the sharp ridge immediately north of Two Lakes. The open valley to the left is the Stony River drainage. Photo 2 is a view from the NW edge of the claim group in the vicinity of claim 18, looking east toward the main Alaska Range. Metasedimentary rocks are shown on the lower slopes, with granite occupying the higher ground behind. The flat bench in the middle foreground represents lateral moraines; the Stony River placers and present drainage is in the timbered areas to the right. Photo 3 shows the campsite located on claim 19, near the terminus of a flat, NE trending moraine shown in Photo 2. Photo 4 is the Camp Creek drainage, photo 5 is the test pit completed by Monroe and Dismuke on claim 21. Dismuke found an old test pit (circa 1925) in the vicinity of claim 29. It is estimated at 15 feet in depth with bedrock gravels. Information given to Monroe by Frank Camp indicated an average depth of 14 feet to bedrock gravels with some frost.

In September 1970, Dismuke and Monroe put down their first test pit in claim 21. They went 7 feet to gravel and encountered a strong inflow of water and experienced bad caving of the hole and no samples. They returned by airplane, and then flew in 4 foot diameter steel casing (see photos 6 and 7) and proceeded to sink the new pit nearby.

The pit was in sandy, clayey glacial silt to seven feet, then encountered gravels and strong water flow. Gravels average 3 inch size but range to 6 inch, with coarser sizes at bottom. Casing was

M.S. Dismuke
Box 626
Steamboat Springs,
Colorado 80477

Economic Geology (Continued):

lowered with the hole, and shovel samples were taken from 7 feet to the bottom of the pit, 12 feet. A total of 1/3 yard (approximately) of gravels representing the bottom 5 feet of the pit was panned down to a heavy mineral concentrate and a 3 ounce vial was saved. Both the magnetic and non-magnetic fractions of this were analyzed (see plate 5) by Spectrographic method.

The 3 ounce vial was separated as follows:

A) 2 ounce magnetite fraction, sample number 05658; Analysis shows 20 ppm Au, plus 20% Fe, and 0.7% Chrome.

B) 1 ounce non-magnetic fraction, abundant cloudy quartz, some chromite, scheelite, zircon grains, barite, considerable chalcopyrite, some pyrite, some galena, some cinnabar, considerable monazite and some euxenite (rare earths-thorium), also rose quartz, pyrrhotite, garnet, epidote. Sample number 05659 shows much gold, much silver, copper, tungsten, chrome, barium, and 15% iron.

C) Gold fraction 1.275 grams, with 1.195 g gold, and 0.08 g cinnabar (with one or two galena fragments). The gold is in plates, generally coarse, to 1/8 inch size, some quartz, occassional tarnish. Cinnabar crystals fragile, bright red, coarse, to 1 mm size. The fineness of the gold as determined by Brown Lab, Grand Junction, Colorado is 840.80 (plate 6). This accounts for the high silver shown in the Spectrographic analysis of the gold. This fineness also indicates close proximity to gold source.

In regard the premise that the Stony River placer claims are located on pre-glacial placers, consider the evidence:

1) The placer ground as indicated is richer than might be expected if glacially disturbed, i.e., 1.195 per 1/3 yard equals 3.585 grams per cubic yard, or $3.50 per yard X .84 fineness = $2.94 gold value/yard.

2) The presence of cinnabar with the gold is a good indicator that the placer is undisturbed by glaciation. Cinnabar is rare enough in placers that it could only accumulate under slow placer concentration conditions, and would be destroyed by relatively rapid glacial processes.

3) The Camp Creek drainage borders a large pattern of valley lateral moraines and potholes; the present drainage has cut down along the edge of the moraines with a northeast alignment distinct from the random valley drainage pattern. In the process it has exposed portions of the old valley placer gravels.

M.S. Dismuke
Box 626
Steamboat Springs,
Colorado 80477

Economic Geology (Continued):

4) The Camp Creek claims are at the edge, and isolated from the main Stony River Valley by a rock protuberance above Two Lakes. Two Lakes itself represents a ponding behind a terminal moraine.

Conclusions:

The significance of these considerations is that gravels of about $3 per yard value are to be expected in the claim area. Bedrock below the gravels should be richer. A systematic volumetric sampling of the gravels is in order, and should provide a basis for economic evaluation to a precise dollars and cents per yard recovered gold value. In the claim area there are 6,000,000 yards of possible and probable gravels, at 6 foot thickness below about 8 feet of cover. Potential reserves in the immediate area (4 miles X 1 mile) are 24,000,000 yards. The gravels could have much greater distribution under the morainal cover. Magnetic and non-magnetic fractions for each panned sample taken should be inspected and analyzed for indications of change in mineralogy defining character and proximity of the gold source.

Drive-casing gravel sampling equipment is indicated for the testing to approximate 20 foot depth. At least some attempt should be made to get to bedrock. The pattern of drilling is shown on plate 4, with sites alternating from Northeast to Southeast corners of the claims, giving 2 lines of holes separated 1,300 feet apart. Holes are spaced 1,320 feet along the lines and with one hole per claim, a total of 32 holes X 20 feet depth equals 640 feet of hole minimum.

Due to high inflow of water encountered in test pits (see photos 6 and 7), and caving and loose character of the gravel, good sampling may be possible only by the use of large-diameter drive casing. Limitations are that casing diameter be 8 inches, as cobbles noted in test pits are to 6 inch size. The Hillman Airplane drill, using 8 inch drive-pipe, may be the best choice; a 9 foot gravel sample (taken in shorter sample intervals of 3 feet) would give a total volumetric sample of 1/6 yard of clay free, easily washed gravels. Denver gold saver is capable of handling 20 pounds per minute of this type of feed, and all of the heavy mineral concentrate should be saved for panning to the gold fraction. A rug strake should be used at the tails to check possible losses. Allowing 3 days per hole, including move, 32 holes could be completed in a summer working season. The Hillman type rig is in common use in Alaska and has been designed for fly-in applications. The rig has capability for drill depths of over 50 feet, so routine bedrock tests may be possible.

Respectfully submitted,

William A. Bowes 3/25/71

WILLIAM A. BOWES

M.S. Dismuke
Box 626
Steamboat Springs,
Colorado 80477

Photo 1:
Pyritized, discolored Intrusive granite - Metadedimentary rocks on ridge North of Two Lakes.

Photo 2:
In vicinity of claim 18, looking east toward Alaska Range. Moraines on left, placers in timber on right.

Photo 3:
Campsite (claim 19) on lateral moraine above placer ground.

M.S. Dismuke
Box 626
Steamboat Springs,
Colorado 80477

Photo 4: Camp Creek

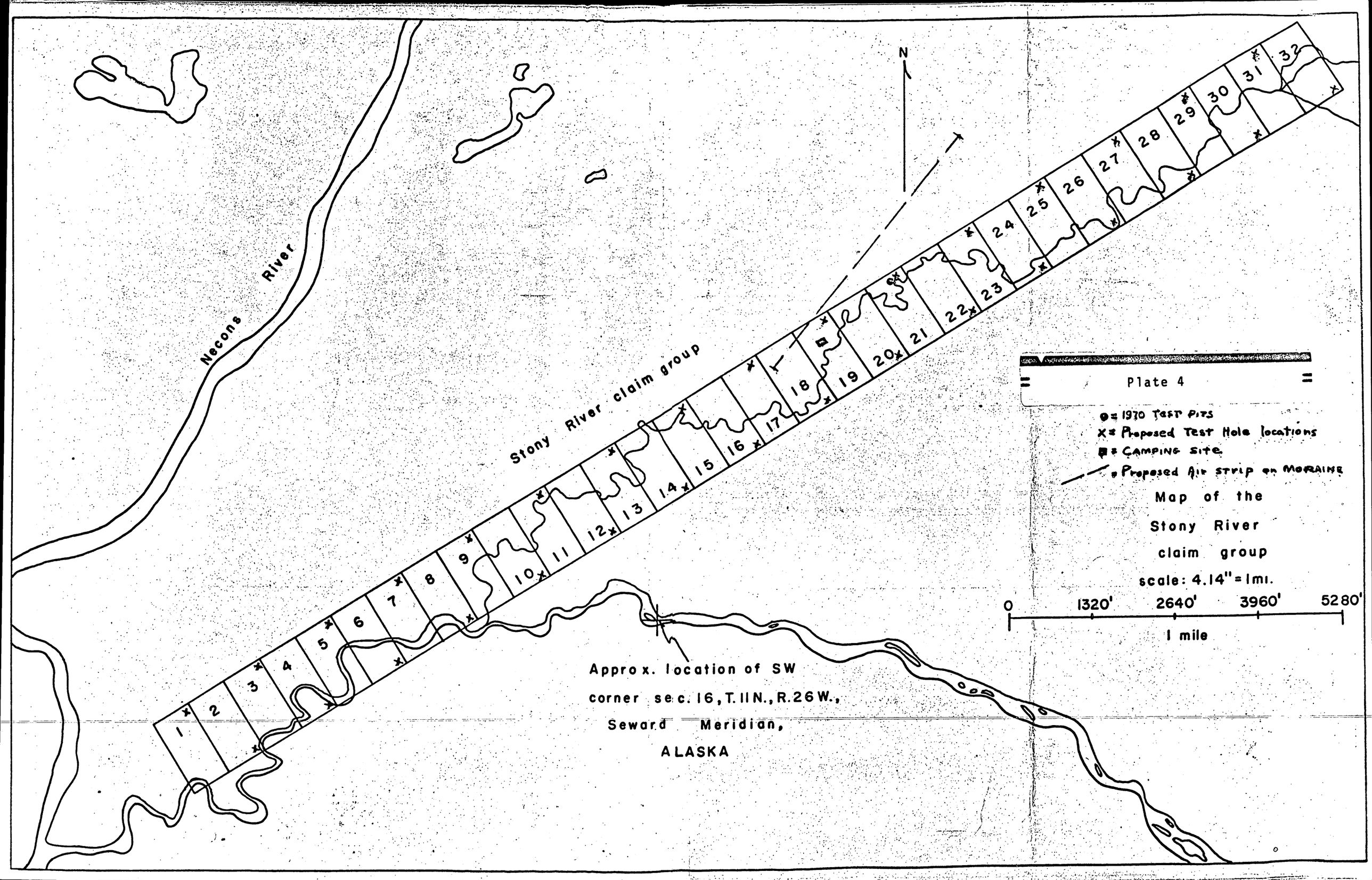
Photo 5: Test Pit on Claim 21.

M. S. Dismuke
Box 626
Steamboat Springs,
Colorado 80477

Photo 6: Putting down test pit in October, 1970. Bill Monroe in foreground.

Photo 7: Detail of water pump and 4 foot culvert casing used in October, 1970 test pit.

M.S. Dismuke
Box 626
Steamboat Springs,
Colorado 80477


Necons River
Stony River claim group
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32
Approx. location of SW
corner sec. 16, T. 11 N., R. 26 W.,
Seward Meridian,
ALASKA
Plate 4
⊙ = 1970 Test Pits
X = Proposed Test Hole locations
■ = Camping site
Proposed Air strip on Moraine
Map of the
Stony River
claim group
scale: 4.14" = 1mi.
0
1320'
2640'
3960'
5280'
1 mile

M.S. Dismuke
Box 626
Steamboat Springs,
Colorado 80477

W. A. BOWES & ASSO.
P.O. Box 160, Steamboat Spgs.
Colorado 80477

SEMIQUANTITATIVE SPECTROGRAPHIC ANALYSIS

INSTRUMENT: WADSWORTH MOUNTED, JARRELL-ASH, 1.5 METER, DC ARC EMISSION SPECTROGRAPH

Fe, Mg, Ca, & Ti reported in %, all other elements reported in ppm

FILM NO. 546-6

DATE 12-3-7?

Plate No.	Office No.	Field No.	Au	Ag	Cu	Pb	Zn	Mo	Fe	W	Ni	Co	Cr	Cd	As	Sb	Mn	V	Bi	Sn	Zr	B	Ba	Be	La	Nb	Sc	Sr	Y	Ca	Mg	Ti	Na
1	Reference	G-2	N	N	15	40	N	N	2	N	10	N	N	N	N	N	300	70	N	N	300	10	2000	2	100	L	N	500	N	.7	.5	.4	2.
2	05658	MAG. Frac.	20	N	30	N	300	N	G 20.	N	150	70	7000	N	N	N	1000	1000	N	N	50	30	100	N	N	L	5	N	N	.2	.3	.7	N
3	05659	Non Mag	G.G. 500	G 2000	2000	500	N	N	15,	300	100	50	3000	N	N	N	1000	300	N	N	300	20	4000	N	20	10	20	300	30	1.+	1.	.7	1.
4	"	"	G.G. 500	G 2000	2000	500	N	N	15,	200	100	70	3000	N	N	N	1000	300	N	N	200	20	4000	N	20	10	20	200	30	1.	1.	.7	1.
5			—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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Lower Detection Limit →			10	0.5	5	10	200	5	0.05%	50	5	5	5	20	200	100	10	10	10	10	10	10	10	2	20	10	5	100	10	0.05%	0.02%	0.001%	

Plate 5

N = Not detected. L = Detected, but below limit of determination. G = Greater than value shown.

REMARKS: DISMUKE ALASKA

CODED BY

ANALYST

M.S. Dismuke
Box 626
Steamboat Springs,
Colorado 80477

Plate 6.

THE BROWN LABORATORY

2263 Broadway
GRAND JUNCTION, COLORADO 81501

ANALYTICAL DEPARTMENT

Phone 242-4589

CERTIFICATE OF ANALYSIS

TO

Mr. Wm. A. Bowes
William A. Bowes & Associates
P. O. Box 160
Steamboat Springs, Colo. 80477

Date 3/1/71
Order No 20081-S

Material: Placer Gold
Received: 2/27/71
For: Fineness

Lab. No.	Your No.	Description	Fine	% Au
20081-1	DIS-AL-SR	Placer Gold	840.80	84.08

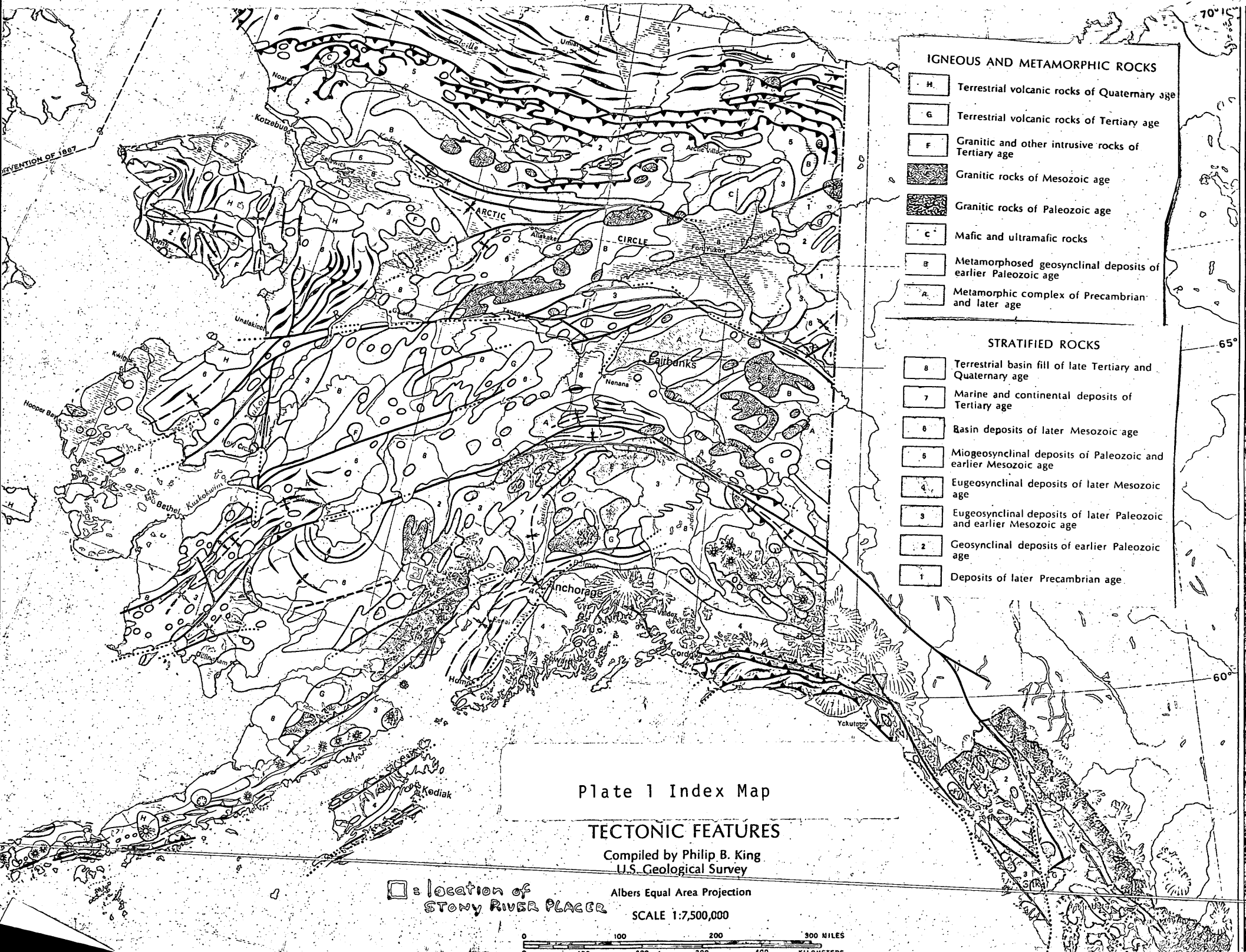
Plate 6

COLORADO PRINTING COMPANY

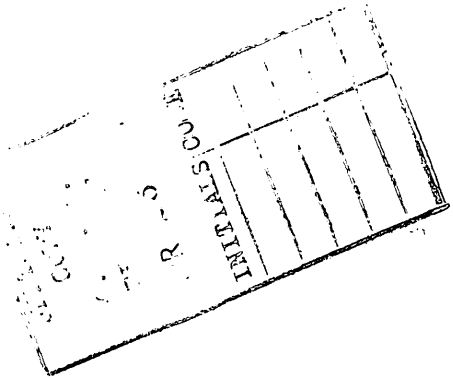
Analyst

6

M.S. Dismuke
Box 626
Steamboat Springs,
Colorado 80477


IGNEOUS AND METAMORPHIC ROCKS
H Terrestrial volcanic rocks of Quaternary age
G Terrestrial volcanic rocks of Tertiary age
F Granitic and other intrusive rocks of Tertiary age
Granitic rocks of Mesozoic age
Granitic rocks of Paleozoic age
C Mafic and ultramafic rocks
B Metamorphosed geosynclinal deposits of earlier Paleozoic age
A Metamorphic complex of Precambrian and later age
STRATIFIED ROCKS
8 Terrestrial basin fill of late Tertiary and Quaternary age
7 Marine and continental deposits of Tertiary age
6 Basin deposits of later Mesozoic age
5 Miogeosynclinal deposits of Paleozoic and earlier Mesozoic age
4 Eugeosynclinal deposits of later Mesozoic age
3 Eugeosynclinal deposits of later Paleozoic and earlier Mesozoic age
2 Geosynclinal deposits of earlier Paleozoic age
1 Deposits of later Precambrian age
70°
65°
60°
ARCTIC
CIRCLE
Kotzebue
Selawik
Arctic Village
Allakaket
Fort Yukon
Tanana
Unalakleet
Fairbanks
Nenana
Kwiguk
Hooper Bay
Bethel
Kuskokwim
Anchorage
Kenai
Homer
Valdez
Cordova
Yakutat
Kodiak
Dillingham
Sitka
Plate 1 Index Map
TECTONIC FEATURES
Compiled by Philip B. King
U.S. Geological Survey
Albers Equal Area Projection
SCALE 1:7,500,000
0 100 200 300 MILES
□ = location of STONY RIVER PLACER

M.S. Dismute
Box 626
Steamboat Springs,
Colorado 80477



MME Form 7
(2/63)

OFFICIAL FILE COPY

Date	Surname	Code
8/18/71	Emerick	120E
		120
		220

August 18, 1971

Memorandum

To: The File

From: Chief, Office of Minerals Exploration

Subject: OME-6844 (Gold)
Morton S. Dismuke
Stony River Claims
Kuskokwim Recording District, Alaska

The Applicant has not replied to our letter of June 29, 1971.

Accordingly, the subject docket is referred to the inactive file and the application considered as having been withdrawn.

Harold Kirkemo

Harold Kirkemo

cc: Director's Reading File
Mineral Resources
OME Docket
OME Reading File
OME Region II
Mr. Kirkemo

WLEmerick/gla 8-18-71

MME Form 7
(2/63)

OFFICIAL FILE COPY

Date	Surname	Code
6/29	cac	120 M

AIRMAIL

JUN 29 1971

Mr. Morton S. Dismuke
P. O. Box 626
Steamboat Springs, Colorado 80477

Re: OME-6844 (Gold)
Morton S. Dismuke
Stony River Claims
Kuskokwim Recording District, Alaska

Dear Mr. Dismuke:

On May 4, 1971 we again requested bids for drilling which Mr. H. K. Stager, Field Officer, Office of Minerals Exploration, Region II, had previously requested. To date, we have not heard from you on this matter. If you need additional time to prepare this information, please let us know. If we do not hear from you within 30 days of the date of this letter, we must assume that you are no longer interested in proceeding with your application, and we shall consider it as having been withdrawn.

Budget constraints in fiscal year 1972, beginning July 1, 1971, will restrict the OME program to the point where only modest assistance will be available to a very few of the more promising proposals. Should you decide to proceed with your application, we would consider it within these limitations.

Sincerely yours,

Harold Kirkemo
for

Harold Kirkemo
Chief, Office of
Minerals Exploration

cc: Director's reading file
Mineral Resources
OME reading file
Region II
Mr. Kirkemo

HKirkemo/cac 6-29-71

MME Form 7
(2/63)

OFFICIAL FILE COPY

Date	Surname	Code
5/4/71		120
5/4	Cole	220
		120M

MAY 4 1971

AIRMAIL

Mr. Morton S. Dismuke
P. O. Box 626
Steamboat Springs, Colorado 80477

Re: OME-6844 (Gold)
Morton S. Dismuke
Stony River Claims
Kuskokwim Recording District, Alaska

Dear Mr. Dismuke:

Thank you for your letter of May 2, 1971 and the copy of your financial and operating statement as of December 31, 1970.

Upon receipt of your bid(s) for drilling as requested by Mr. H. K. Stager, Field Officer, Office of Minerals Exploration, Region II, we will continue processing your application.

Sincerely yours,

Harold Kirkemo

Harold Kirkemo
Chief, Office of
Minerals Exploration

cc: Director's Reading File
Mineral Resources File
OME Docket
OME Reading File
OME Region II w/copies of incoming material
Mr. Kirkemo

HKirkemo/bsl 5/4/71

DISMUKE & DISMUKE
ENGINEERS - SURVEYORS
442 LINCOLN AVENUE, P. O. BOX 626 • STEAMBOAT SPRINGS, COLORADO 80477 • (303) 879-1631

May 2, 1971

OFFICIAL COPY
O. M. E.
RECEIVED
MAY 3 1971
INITIALS CODE
430
Gol 120 M
120
Copy to R-II

William L. Emerick
Office of Minerals Exploration
U. S. Department of the Interior
Geological Survey
Washington, D.C. 20242

Re: OME-6844 (Gold)
Morton S. Dismuke
Stony River Claims
Kuskokwim Recording Dist., Alaska

Dear Mr. Emerick:

In reply to your letter of April 27, 1971, I am enclosing a copy of my financial & operating statement as of December 31, 1970.

The labor for the above project will be paid by my company. This will include myself and my two helpers and camp cook which costs I have estimated to be $11,300.00.

In regards to having sufficient funds to pay for all costs of the project for the first two or three months, my bank will advance these monies if I have a firm contract with the government guaranteeing to reimburse me for 75% of the project cost.

Sincerely,

M.S. Dismuke

DISMUKE & DISMUKE
ENGINEERS - SURVEYORS
442 LINCOLN AVENUE, P. O. BOX 626 ○ STEAMBOAT SPRINGS, COLORADO 80477 ○ (303) 879-1631

Statement of Income & Expense for 1970

INCOME		
Fees	$106,707.92	
Service Charge	79.84	
Other Income	501.74	
Total Income		$107,289.50
OPERATING EXPENSES		
Payroll	$ 53,509.06	
Supplies	4,785.52	
Rent	1,490.00	
Equipment rent	3,129.49	
Telephone	4,437.36	
Pins & Stakes	192.05	
Mileage	1,555.60	
Travel & Entertainment	4,566.50	
Auto Expense	2,134.23	
Payroll Taxes	2,554.63	
Payroll tax penalty	234.94	
Taxes & Licenses	557.32	
Other expenses	2,737.53	
Interest	2,680.65	
Computer expense	3,622.33	
Computer repair	244.25	
Aerial Topos	4,108.20	
Total Operating Expense		$ 92,519.66
Net Profit		14,769.84

Cash flow for 1970 $109,386.57

M.S. Dismuke

DISMUKE & DISMUKE
ENGINEERS - SURVEYORS
442 LINCOLN AVENUE, P. O. BOX 626 • STEAMBOAT SPRINGS, COLORADO 80477 • (303) 879-1631

Virginia & Morton S. Dismuke
Balance Sheet
December 31, 1970

ASSETS

Current Assets		
Cash	$ 2,814.33	
Accounts Receivable	27,375.73	
		$ 28,190.06
Fixed Assets		
Office Furn., Fix., & Equip.	6,984.78	
Autos	12,396.08	
Geodimeter	12,927.28	
Less Depreciation	- 7,970.00	
		24,338.14
Other Assets		
Residence	75,000.00	
Personal Furniture	13,000.00	
Jewelry	5,900.00	
Fine Arts (paintings, sculpture, etc.)	12,530.00	
		$106,430.00
TOTAL ASSETS		$158,958.20

LIABILITIES

Current Liabilities		
Accounts Payable	$ 3,500.00	
Notes Payable	28,172.24	
Payroll Taxes	2,206.61	
Escrow	1,089.80	
		$ 34,968.65
Real Estate Mortgage		$ 28,636.97
		63,605.62
NET WORTH		$ 95,352.58
Net Worth & Liabilities		$158,958.20

M.S. Dismuke

MME Form 7
(2/63)

OFFICIAL FILE COPY

Date	Surname	Code
4/27/71	(on leave)	120
	Emerick	120
4/27	Cor	220
		120M

APR 27 1971

Mr. Morton S. Dismuke
P. O. Box 626
Steamboat Springs, Colorado 80477

Re: OME-6844 (Gold)
Morton S. Dismuke
Stony River Claims
Kuskokwim Recording District, Alaska

Dear Mr. Dismuke:

The application for assistance in exploring the subject property has been reviewed by the Washington office. We note that Mr. Stager, Field Officer, Region II, has requested that you obtain several bids for the type of work proposed and forward this additional information to him as soon as possible.

In addition, we note under item 1(c) of the application that you propose to furnish most of your share of the cost by your own labor. We find that allowance for this type of contribution usually is not sufficient to cover the operator's share of the costs. 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. An applicant, therefore, should have sufficient funds on hand to pay for all costs of the project for the first two or three months. Under the circumstances, we would appreciate a financial statement from you sent to this office.

We shall be pleased to continue processing your application upon receipt of the above information. Nothing in this letter should be construed as a committment by the Government to grant an exploration contract.

Sincerely yours,

William L. Emerick
for

William L. Emerick
Assistant Chief
Office of Minerals Exploration

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

WLEmerick/bsl 4/27/71

April 26, 1971

Mr. Morton S. Dismuke
P. O. Box 626
Steamboat Springs, Colorado 80477

Subject: OME-6844

Dear Mr. Dismuke:

Your application for exploration assistance, dated April 16, 1971, submitted to our office at Menlo Park, California, has been assigned Docket No. OME-6844.

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

Sincerely Yours,

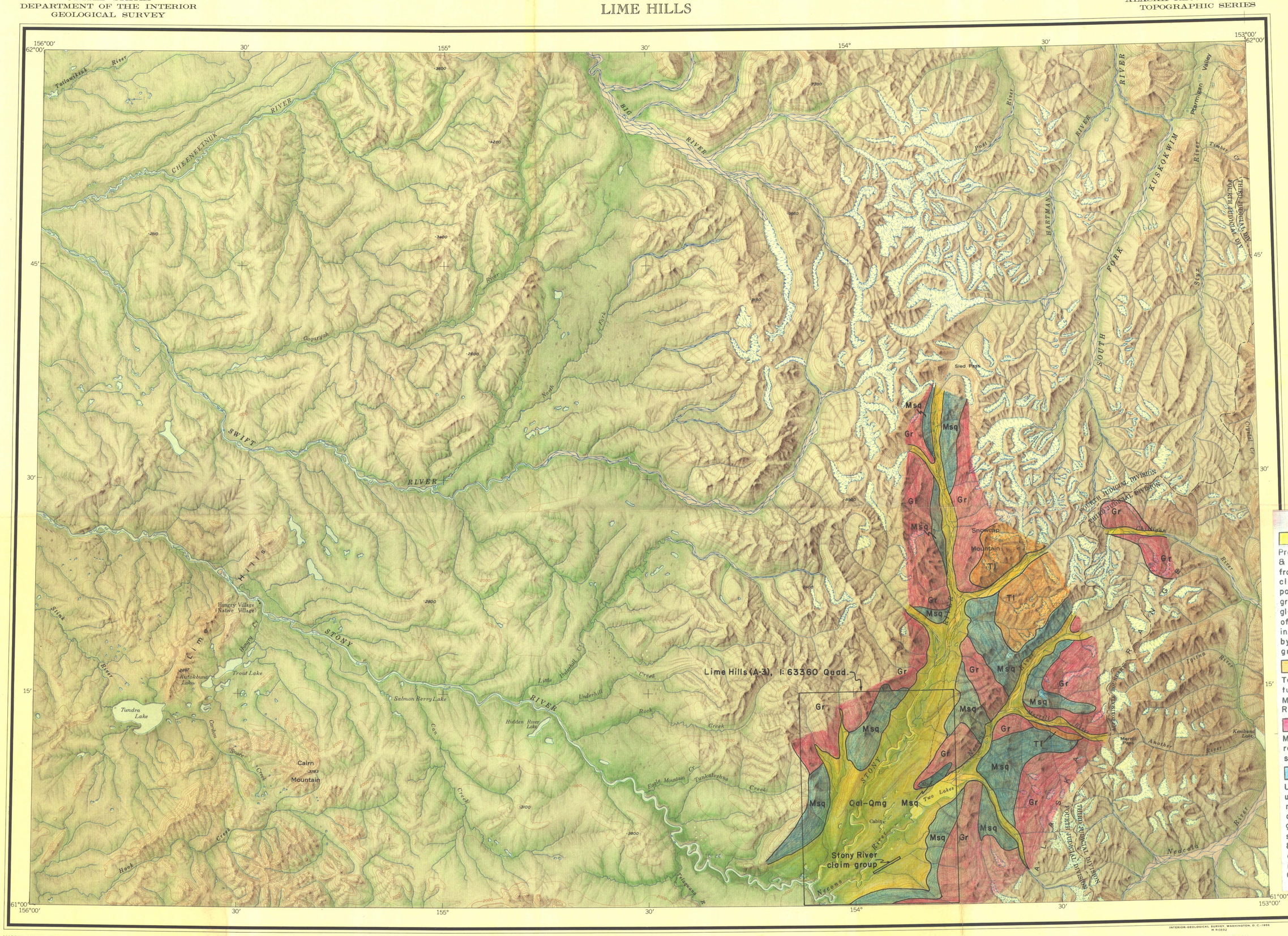
W. L. Emerick
Assistant Chief,
Office of Minerals
Exploration

Copy to Region II

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LIME HILLS

ALASKA RECONNAISSANCE
TOPOGRAPHIC SERIES



LEGEND

Qal-Qmg
Present-gravel, sand & silt; in part outwash from existing glaciers. Morainal deposits and outwash gravel of Pleistocene glaciers; moraines of Present glaciers, in part underlain by ice & terrace gravels.

Ti
Tertiary- bedded tuff & lava of the Mulchatna-Stony River region.

Gr
Mesozoic-granitic rocks, locally somewhat gneissic.

Msq
Upper K & older-undiff. complex, mainly black argillite, slate & graywacke with some s.s. & cong., & minor amounts of lava & tuff, in part upper Cretaceous.

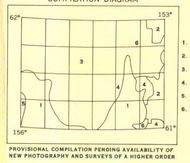
MAPPED BY THE GEOLOGICAL SURVEY, THE U. S. COAST AND GEODETIC SURVEY AND THE U. S. AIR FORCE
EDITED AND PUBLISHED BY THE GEOLOGICAL SURVEY

CONTROL BY USGS

CULTURE AND DRAINAGE IN PART COMPILED FROM TRIMETROGON PHOTOGRAPHY, 1941-1943. TOPOGRAPHY COMPILED FROM ORIGINAL SURVEYS OF THE GEOLOGICAL SURVEY AND OTHER OFFICIAL SOURCES, 1909-1949. SUPPLEMENTED BY STEREOPHOTOGRAMMETRIC (PHOTOALIDADE) COMPILATION, 1945

UNIVERSAL TRANSVERSE MERCATOR PROJECTION, ZONE 5
1927 NORTH AMERICAN DATUM

COMPILATION DIAGRAM



PROVISIONAL COMPILATION PENDING AVAILABILITY OF NEW PHOTOGRAPHY AND SURVEYS OF A HIGHER ORDER

1. TOPOGRAPHY FROM USGS LAKE CLARK—MULCHATNA RIVER MAP, 1933. ADJUSTED TO TRIMETROGON BASE
2. TOPOGRAPHY FROM USGS MT. SPURR REGION MAP, 1933. ADJUSTED TO TRIMETROGON BASE
3. TOPOGRAPHY FROM PHOTOALIDADE COMPILATION, 1945. ADJUSTED TO TRIMETROGON BASE
4. TOPOGRAPHY FROM WAC 118, 1949. ADJUSTED TO TRIMETROGON BASE
5. TOPOGRAPHY FROM USAF PRELIMINARY BASE MAP 118 D. ADJUSTED TO TRIMETROGON BASE
6. TRIMETROGON PLANIMETRY ONLY

SCALE 1:250 000

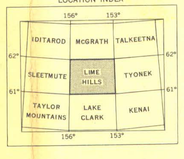
5 0 5 10 15 20 25 MILES

5 0 5 10 15 20 25 KILOMETERS

CONTOUR INTERVALS 200 AND 1000 FEET
AREAS NOT SURVEYED IN DETAIL INDICATED BY BROKEN LINES
DATUM IS MEAN SEA LEVEL

1951 MAGNETIC DECLINATION AT SOUTH EDGE OF SHEET VARIES FROM 22° TO 24° EAST
THIS MAP IS AVAILABLE IN BOTH SHADED RELIEF AND CONTOUR EDITIONS
FOR SALE BY U.S. GEOLOGICAL SURVEY
FAIRBANKS, ALASKA FEDERAL CENTER, DENVER, COLORADO WASHINGTON 25, D.C.
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

LOCATION INDEX



INTERIOR-GEOLOGICAL SURVEY, WASHINGTON, D. C.—1956
M R-0892

ROAD CLASSIFICATION

ALL WEATHER ROADS		DRY WEATHER ROADS	
HARD-SURFACE	NONE	IMPROVED DIRT	NONE
OTHER	NONE	UNIMPROVED DIRT	NONE

TRAILS - - - - - - - -

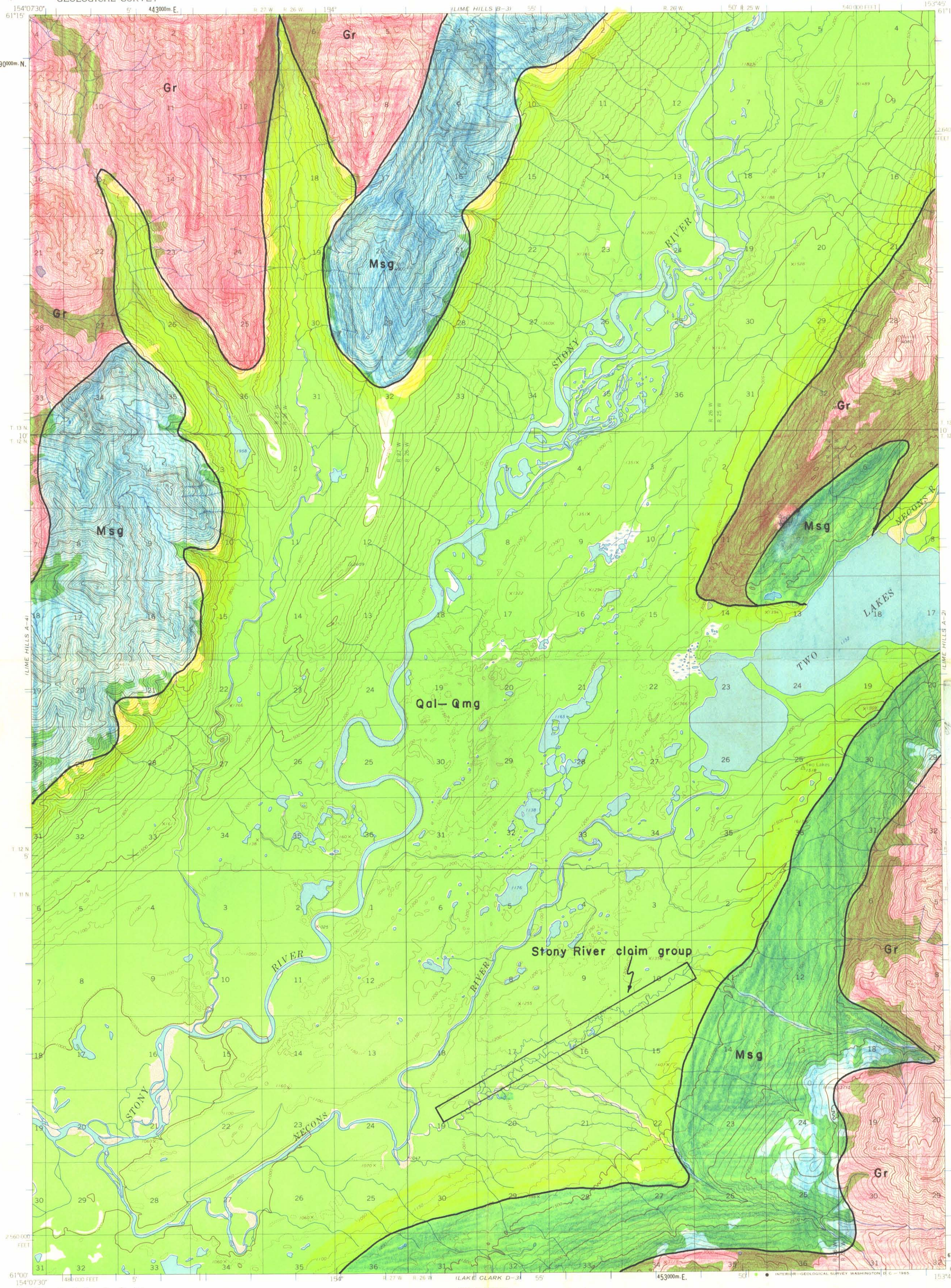
LIME HILLS, ALASKA
N6100-W15300/60X180

1951
MINOR CORRECTIONS MADE 1956

Plate 2

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LIME HILLS (A-3) QUADRANGLE
ALASKA
1:63 360 SERIES (TOPOGRAPHIC)



LEGEND

Qal-Qmg
Present-gravel, sand & silt; in part outwash from existing glaciers. Morainal deposits and outwash gravel of Pleistocene glaciers; moraines of Present glaciers, in part underlain by ice & terrace gravels.

Tl
Tertiary- bedded tuff & lava of the Mulchatna-Stony River region.

Gr
Mesozoic-granitic rocks, locally somewhat gneissic.

Msg
Upper K & older-undiff. complex, mainly black argillite, slate & graywacke with some s.s. & cong., & minor amounts of lava & tuff, in part upper Cretaceous.

Mapped by the Army Map Service
Edited and published by the Geological Survey

Control by USC&GS and USCE

Topography by photogrammetric methods from aerial photographs taken 1957, field annotated 1953–54. Map not field checked

Universal Transverse Mercator projection, 1927 North American datum
10,000-foot grid based on Alaska coordinate system, zone 5
1000-meter Universal Transverse Mercator grid ticks, zone 5, shown in blue

Land lines represent unsurveyed and unmarked locations predetermined by the Bureau of Land Management
Folio S-12, Seward Meridian

TRUE NORTH
MAGNETIC NORTH
24°
APPROXIMATE MEAN DECLINATION, 1954

SCALE 1:63360
1 ½ 0 1 2 3 4 MILES
3000 0 3000 6000 9000 12000 15000 18000 21000 FEET
1 .5 0 1 2 3 4 5 KILOMETERS

CONTOUR INTERVAL 100 FEET
DOTTED LINES REPRESENT 50-FOOT CONTOURS
DATUM IS MEAN SEA LEVEL

ALASKA
QUADRANGLE LOCATION

ROAD CLASSIFICATION
No roads or trails in this area

FOR SALE BY U.S. GEOLOGICAL SURVEY
FAIRBANKS, ALASKA, DENVER 25, COLORADO OR WASHINGTON 25, D.C.
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

LIME HILLS (A-3), ALASKA
N6100—W15345/15X22.5

Plate 3