DEFENSE MINERALS EXPLORATION ADMINISTRATION
CONTRACT ADMINISTRATION AND AUDIT DIVISION

REPORT OF REVIEW

I have reviewed the Monthly Reports of:

Albert Leighton Howard
16951 Ashworth Avenue
Seattle 33, Washington

pertaining to Exploration Project Contract No. Idm-5579, Docket No. DMEA-2931, including amendment No. 1 and an Amended Contract dated May 1, 1955, for the period of August 28, 1953, to October 18, 1955, inclusive, covering a project for the exploration of platinum group metals on property, on the eastern slopes of Red Mountain located in Goodnews Bay Mining District of Southwestern Alaska.

My review included an examination of the Monthly Reports (Forms MF-104) and supporting documents attached thereto, comparison of the costs claimed with the contract and pertinent schedules, verification of work performed by reference to drill logs, and a determination of the reasonableness and propriety of the costs.

This review was made in lieu of a final audit of the Operator's accounts and records for the following reason:

> all of the costs incurred were under a contract provision for payment by the Government on the basis of fixed unit costs of churn drilling work actually performed.

The review disclosed the following facts in regard to the amount paid or to be paid the contractor:

Total cost as billed by Contractor		$20,016.00
Exceptions:		
By DMEA Finance Officer	$ -0-	
Herewith	-0-	-0-
Total Accepted Cost		$20,016.00

The contract calls for a 90 percent participation in the first $12,000.00 and 75 percent participation in the balance of exploration expenses by the United States Government. Therefore, payment to the contractor by the Government in the amount of Sixteen thousand eight hundred twelve and no/100 Dollars

$16,812.00

is considered valid and proper, provided that the Regional Executive Officer, the Administrator, or other competent official has accepted or will accept the project as having otherwise met the terms of the contract.

February 28, 1956

E. D. Talbert, Auditor

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

FEB 28 1956

Mr. S. H. Lorain
Executive Officer, Alaska District
DMEA Field Team, Region I
P. O. Box 560
Juneau, Alaska

Re: Docket No. DMEA-2931
Albert Leighton Howard
Contract No. Ida-[illegible]

Dear Mr. Lorain:

Enclosed are the original and two copies of a Report of Review, in lieu of a final audit of the referenced project, prepared in accordance with the request contained in your letter of February 24, 1956, addressed to the Operating Committee.

If you concur with the facts stated therein and, also, that the Operator has completed satisfactorily 1,668 feet of diamond drilling conforming with the specifications set forth in the contract, the original and one copy of the Report of Review should be forwarded to the Finance Officer and one copy should be retained in your files. If, for any reason, the Report of Review does not have your concurrence please return all copies to this Division.

Sincerely yours,

(Signed) J. L. Chambers

Jay L. Chambers, Chief
Contract Administration
and Audit Division

Enclosure

EDTalbert/wb
February 28, 1956

Copy to: Docket
Admr. Reading File
Mr. Chambers
Mr. Wilcox
Mr. Ellis

Form I-1017 Rev.
Form approved by
Comp. Gen., U.S.
August 20, 1951

DEPARTMENT OF THE INTERIOR

VOUCHER AND SCHEDULE OF PAYMENTS

Sheet 1 of _____

Bureau or Office: Defense Minerals Exploration Administration

Location of Transmitting Office: Juneau, Alaska

Station No.: 14-23-010

D. O. Symbol: 343

Appropriation Summary: (Symbol and amount)

14X4401

D. O. Voucher No. _____

Bu. Schedule No. 43

PAID BY

(For use of paying office)

(1) Bureau Voucher No.	(2) Payee, and if necessary, address, invoice no., or other identification	(3) AMOUNT	(4) D. O. Check No.
	Albert Leighton Howard 16351 Ashworth Ave. Seattle 33, Washington DMEA Idn-8579 Final Payment	1080.00	
	TOTAL	1080.00	

Pursuant to authority vested in me, I certify that the items listed herein are correct and proper for payment from the appropriation(s) designated.

3/2/56
(Date)

Lawrence J. Wilson (Authorized Certifying Officer)

U. S. GOVERNMENT PRINTING OFFICE—1951—968901

-C-O-P-Y-

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
~~WASHINGTON 25, D.C.~~

P. O. Box 2688
Juneau, Alaska

March 30, 1956

Memorandum

To: L. J. Wilcox, Finance Officer, DMEA, Alaska District, Region I.

From: Executive Officer, Alaska District, Region I.

Subject; Completion of project.
Docket No. DMEA-2931 (platinum)
A. L. Howard,
Contract No. Idm-2579

This is to notify you that the Operator has completed, to the satisfaction of the Government, the amount of exploration work for which government participation is claimed.

The second stage of Phase II of the program set forth in the last amended contract will not be performed because the results of the preceding work were negative.

/s/ S. H. Lorain

S. H. Lorain

-C-O-P-Y-

Form [illegible]F-104 (Rev.)
[illegible]pril 1952)

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

Budget Bureau No. 42-R1036.4
Approval expires 6-30-53.

RECEIVED
FEB 10 1956

OPERATOR'S MONTHLY REPORT AND VOUCHER

PHASE II

Amended

Month of 9/14 to 10/18, 1955 Docket No. DMEA 2931 Contract No. Idm-2579

Operator's Name Albert Leighton Howard Minerals Platinum Group Metals

Address 16351 Ashworth Ave., Seattle 33, Wash

Contract Amount, $ 18,000 Government Participation: 75% Amount, $ 13,500

ITEMS OF COSTS	FOR OPERATOR'S USE			FOR GOVERNMENT USE ONLY		
	Monthly Total	Totals Previously Reported	Totals To Date	Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Contracts:						
Drilling	$8,016	None	$8,016	8016.00	12000.00	20016.00
Bulldozing						
Crosscutting						
Drifting						
(2) Labor and Supervision:						
Labor						
Supervision						
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis						
Payroll Taxes						
Liability Insurance						
(8) Contingencies (specify):						
TOTALS	$8,016	None	$8,016	8016.00	12000.00	20016.00

I certify that the above bill is correct and just and that payment therefor has not been received.

Date Nov. 8, 1955 *Payee A. L. Howard

Per _____ Title _____

*When a voucher is signed or receipted in the name of a company or corporation, the name of the person writing the company or corporate name, as well as the capacity in which he signs, must appear. For example: "John Doe Company, per John Smith, Secretary," or "Treasurer," as the case may be.

→ NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

(Instructions on reverse)

Pursuant to authority vested in me, I certify that this account is correct and proper for payment in the amount of:

$ 6012.00

Signature Lawrence L. Wilcox (Authorized Officer)

Date 12/13/55 Vou. No. 40

(See other side)

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. Idm-5579 in accordance with the terms of the contract.

Signature ..... Title Exam. Officer Date 12/13/55

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature ..... Title Exec. Officer Date 12/13/55

MONTHLY REPORT OF OPERATOR

The Operator (Contractor) of an exploration project is required to make a monthly report to the Government through the Regional Executive Officer. This report consists of three parts as follows:

(*a*) *Form MF–104—Operator's Monthly Report and Voucher.*—This form details expenditures and constitutes a voucher for reimbursing the Operator for the Government's share of costs;

(*b*) *Form MF–104A—Operator's Unit Cost and Progress Report.*—This is a statistical report of expenditures which shows costs for the various types of operation; and

(*c*) *Narrative.*—A concise narrative description of progress made, results accomplished, and any unusual difficulties encountered must be furnished as an attachment to this Report and Voucher. Wherever possible, the narrative is to be illustrated with maps or sketches showing formations penetrated and location and assays of samples taken as well as advances in workings. In the case of diamond drilling or churn drilling, the location and inclination of holes is to be shown on a map; logs and assays also are to be submitted.

The Monthly Report of Operator should be prepared in an original and four copies all of which must be sent to the Executive Officer of the Region not later than the 15th of the month following.

Preparation of Form MF–104—Operator's Monthly Report and Voucher.—All the applicable spaces in Form MF–104 should be filled in by the Operator, and the Operator or his agent should sign the certification in the lower left corner of the form.

The items of costs are arranged in the order they appear in Article 6 (a) of Form MF–200 (Revised February 1952), however, this form is readily adaptable for use in reporting activities under other contract forms.

Under Item (1) delete words "Short Form" if the contract is a sub-contract under Form MF–200; and delete word "Independent" if the contract reported is on Form MF–200 (A). Also, report work paid for on a unit basis under contract Form MF–200 as though it were performed under an independent contract.

Under Item (2) include labor, supervision and technical services incurred for the exploratory operations. Do not include labor, supervision and technical services used for work performed under items (5) and (6).

Under Item (3) include the costs of material and supplies used in the project other than that used under items (5) and (6).

Under Item (4) appear the three types of operating equipment expenditures, that is, rental, purchase and depreciation. The expenditures made for renting equipment belonging to a third party will be reported under "Rental". The amount paid or duly obligated for payment for the purchase of equipment will be reported under "Purchase". The amount of expenditures due the Operator to reimburse him for depreciation of equipment owned will be reported under "Depreciation".

Item (5) comprises costs of labor, supervision, technical services, materials, etc., which are used in the initial rehabilitation and repair of existing buildings, installations, fixtures, and equipment. These costs, therefore, should not be reported under items (2) and (3).

Item (6) includes the labor, supervision, technical services, materials, etc., used in the installation or construction of new buildings, fixed improvements, etc., necessary for the project. These costs, therefore, should not be reported under items (2) and (3).

Item (7) covers miscellaneous types of expenditure such as payroll taxes, liability insurance, workmen's compensation insurance, repairs to equipment and sampling and analysis. Only that part of payroll taxes, liability insurance and workmen's compensation which are paid by the operator should be reported under item (7). The share paid by the employee as a payroll deduction is to be included under item (2) as labor costs.

Item (8) includes any unforeseen costs not included in the other seven categories.

The original of Form MF–104 when submitted for reimbursable expenses incurred under contract Form MF–200 must be supported by original documentation or by certified copies of purchase orders, payrolls or transcripts of payrolls, unless such documentation has been waived by the Regional Executive Officer. This certification may be stated thus, "Certified True Copy (or Transcript)", followed by appropriate signature. If the Executive Officer of the Region determines that a contract under Form MF–200 should have an "on-site" audit, that is, a Government auditor should make an audit of the Operator's books and records of account, the Operator need not support his monthly voucher with original or certified documents except in cases of equipment purchases whose individual costs exceed $50.00. In these cases the original or a certified copy of the purchase order or invoice should be attached to the Monthly Voucher. N. B.—Only the *original* of Form MF–104 is required to be documented. The four copies of Form MF–104 are not to be thus supported.

Form MF–104 submitted for reimbursement under fixed price contracts on Form MF–200 (A), however, are not required to be supported by documentation of any kind. The Operator will submit his claim under item (1) of Form MF–104 by deleting as stated above the word "Independent" and by showing the number of feet or other units immediately after the appropriate descriptive word, such as, drilling, bulldozing, crosscutting, drifting, etc., and giving the "Monthly Total" amount due. "Totals Previously Reported", and "Totals to Date" columns should also be filled in.

GPO 83-38476

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151
Approval expires 6-30-53.

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

RECEIVED
FEB 10 1956

OPERATOR'S UNIT COST AND PROGRESS REPORT

PHASE II

Amended

Month of 9/14to10/18 1955 Docket No. DMEA 2931 Contract No. Idm-E579
Operator's Name Albert Leighton Howard Minerals Platinum
Address 16351 Ashworth Ave.Seattle33,Wash Group Metals

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT	
							Units	Unit Costs
Drifting								
Crosscutting								
Raising								
Shafts								
Winzes								
Drilling: Core								
Churn	Foot	$8,016	668	$8,016	668	$12.00	1500	$12.00
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails								
TOTAL DISTRIBUTED COSTS								TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								None
Initial Rehabilitation and Repairs								None
New Buildings, Improvements, etc								None
TOTAL COSTS								$18,000

The undersigned company, and the official executing this certification on its behalf, hereby certify that the information contained in this report is correct and complete to the best of their knowledge and belief.

Date Nov. 8, 1955 Operator A. L. Howard

Per ..... Title .....

NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

REMARKS:

(Instructions on reverse)

(For Government use only)

OK

INSTRUCTIONS

Preparation of Form MF–104A—Operator's Unit Cost and Progress Report.—Applicable places on Form 104A should be filled in by the Operator. The purpose of this form is twofold as follows: (1) to furnish the supervising engineers and other administrators with statistical information necessary to better determine the progress of the project; and (2) to furnish more permanent information on mining costs for future use. The more important phases of operation on which permanent information is desired have been outlined in the form. There are blank lines, however, for those unusual phases which may need to be reported for a particular project. It will be necessary for the Operator to distribute his costs among the applicable phases reported with the exception of three items the costs of which are not to be distributed by the Operator. These three items are: "Operating Equipment Purchased", "Initial Rehabilitation and Repairs", and "New Buildings, Improvements, etc." The reason for not distributing these items on a monthly basis is doubtless clear to the Operator, since such distribution might well overstate the cost for any one month or period short of the entire contract period.

Form MF–104A has been designed to tie in with Form MF–104 for both monthly and cumulative costs. The "Total Costs" on Form MF–104A for each month should equal the monthly "Total Costs" as reported on Form MF–104. This is also true of the "Total Costs To Date".

In preparing Form MF–104A, it will be necessary frequently to distribute certain costs over a number of items. For instance, supervisory and engineering costs may have to be distributed over several phases, such as, drifting, crosscutting, raising, etc., provided that these items were reported active for the month. Such distributions should be made on the basis of time spent on the various phases, on man days of labor charged to such phases, or on some other equitable basis. "Operating Equipment", "Initial Rehabilitation and Repairs", and "New Buildings Improvements, etc.", will be distributed to the several phases of the project by the Washington Office of DMEA at the close of the project if determined necessary. The last two columns headed "Authorized by Contract" will be filled in by the Operator if such information is found in the contract. This information is usually a part of Exhibit "A" of the contract. A space for remarks has been provided for the use of the Operator to call attention to any unusual circumstances causing excessive or disproportionate unit costs.

GPO 83-38475

FEB - 2 1956

Mr. Lawrence J. Wilcox
Certifying Officer
Bureau of Mines
P. O. Box 560
Juneau, Alaska

Re: Albert Leighton Howard
Contract No. Idm-3579
Docket No. DMRA-2931

Dear Mr. Wilcox:

It is noted that payment of a voucher in the amount of $6,012.00 for the above referenced contract is indicated on your December Supporting Schedule for Monthly Report, Strategic and Critical Minerals Exploration Program.

Since the Washington office has no record of the receipt of such voucher it will be appreciated if you will forward the usual two copies at your earliest convenience.

Sincerely yours,

E. D. Talbert, Acting Chief
Contract Administration
and Audit Division

AMAlley/ama
February 2, 1956

Copy to: Docket
Admr. Reading File
Mr. Chambers

Form MF-104 (Rev.)
(April 1952)

Budget Bureau No. 42-R1036.4
Approval expires 6-30-53.

Defense Minerals Administration
RECEIVED
JAN 17 1955

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of October, 1954 Docket No. DMEA 231 Contract No. Idr-579
Operator's Name Albert Leighton Howard Minerals Platinum
Address 16351 Ashworth Ave., Seattle 33, Wash. Group Metals
Contract Amount, $ 12,000.00 Government Participation: 90 % Amount, $ 10,800.00

ITEMS OF COSTS	FOR OPERATOR'S USE			FOR GOVERNMENT USE ONLY		
	Monthly Total	Totals Previously Reported	Totals To Date	Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) ~~Independent~~ Short Form Contracts:						
Drilling 230 ft.	2,760	9,240	12,000	2760.00	9240.00	12,000.00
Bulldozing						
Crosscutting						
Drifting						
(2) Labor and Supervision:						
Labor						
Supervision						
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis						
Payroll Taxes						
Liability Insurance						
(8) Contingencies (specify):						
TOTALS	2,760	9,240	12,000.	~~2760.00~~	~~9240.00~~ 9240	~~12,000.00~~

I certify that the above bill is correct and just and that payment therefor has not been received.

Date Nov. 29 '54 *Payee A. L. Howard

Per _____ Title _____

*When a voucher is signed or receipted in the name of a company or corporation, the name of the person writing the company or corporate name, as well as the capacity in which he signs, must appear. For example: "John Doe Company, per John Smith, Secretary," or "Treasurer," as the case may be.

NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

(Instructions on reverse)

Pursuant to authority vested in me, I certify that this account is correct and proper for payment in the amount of: $2484.00 less 10% holdback $ 1,404.00

Signature Lawrence W. Gilbert (Authorized Signature Officer)

Date 1/13/55 Vou. No. DMEA # 11

(See other side)

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. Idm-E-79 in accordance with the terms of the contract.

Signature ..... Title Examining Engineer Date 1/12/55

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature ..... Title Executive Officer Date 1/12/55

MONTHLY REPORT OF OPERATOR

The Operator (Contractor) of an exploration project is required to make a monthly report to the Government through the Regional Executive Officer. This report consists of three parts as follows:

(*a*) *Form MF–104—Operator's Monthly Report and Voucher.*—This form details expenditures and constitutes a voucher for reimbursing the Operator for the Government's share of costs;

(*b*) *Form MF–104A—Operator's Unit Cost and Progress Report.*—This is a statistical report of expenditures which shows costs for the various types of operation; and

(*c*) *Narrative.*—A concise narrative description of progress made, results accomplished, and any unusual difficulties encountered must be furnished as an attachment to this Report and Voucher. Wherever possible, the narrative is to be illustrated with maps or sketches showing formations penetrated and location and assays of samples taken as well as advances in workings. In the case of diamond drilling or churn drilling, the location and inclination of holes is to be shown on a map; logs and assays also are to be submitted.

The Monthly Report of Operator should be prepared in an original and four copies all of which must be sent to the Executive Officer of the Region not later than the 15th of the month following.

Preparation of Form MF–104—Operator's Monthly Report and Voucher.—All the applicable spaces in Form MF–104 should be filled in by the Operator, and the Operator or his agent should sign the certification in the lower left corner of the form.

The items of costs are arranged in the order they appear in Article 6 (a) of Form MF–200 (Revised February 1952), however, this form is readily adaptable for use in reporting activities under other contract forms.

Under Item (1) delete words "Short Form" if the contract is a sub-contract under Form MF–200; and delete word "Independent" if the contract reported is on Form MF–200 (A). Also, report work paid for on a unit basis under contract Form MF–200 as though it were performed under an independent contract.

Under Item (2) include labor, supervision and technical services incurred for the exploratory operations. Do not include labor, supervision and technical services used for work performed under items (5) and (6).

Under Item (3) include the costs of material and supplies used in the project other than that used under items (5) and (6).

Under Item (4) appear the three types of operating equipment expenditures, that is, rental, purchase and depreciation. The expenditures made for renting equipment belonging to a third party will be reported under "Rental". The amount paid or duly obligated for payment for the purchase of equipment will be reported under "Purchase". The amount of expenditures due the Operator to reimburse him for depreciation of equipment owned will be reported under "Depreciation".

Item (5) comprises costs of labor, supervision, technical services, materials, etc., which are used in the initial rehabilitation and repair of existing buildings, installations, fixtures, and equipment. These costs, therefore, should not be reported under items (2) and (3).

Item (6) includes the labor, supervision, technical services, materials, etc., used in the installation or construction of new buildings, fixed improvements, etc., necessary for the project. These costs, therefore, should not be reported under items (2) and (3).

Item (7) covers miscellaneous types of expenditure such as payroll taxes, liability insurance, workmen's compensation insurance, repairs to equipment and sampling and analysis. Only that part of payroll taxes, liability insurance and workmen's compensation which are paid by the operator should be reported under item (7). The share paid by the employee as a payroll deduction is to be included under item (2) as labor costs.

Item (8) includes any unforeseen costs not included in the other seven categories.

The original of Form MF–104 when submitted for reimbursable expenses incurred under contract Form MF–200 must be supported by original documentation or by certified copies of purchase orders, payrolls or transcripts of payrolls, unless such documentation has been waived by the Regional Executive Officer. This certification may be stated thus, "Certified True Copy (or Transcript)", followed by appropriate signature. If the Executive Officer of the Region determines that a contract under Form MF–200 should have an "on-site" audit, that is, a Government auditor should make an audit of the Operator's books and records of account, the Operator need not support his monthly voucher with original or certified documents except in cases of equipment purchases whose individual costs exceed $50.00. In these cases the original or a certified copy of the purchase order or invoice should be attached to the Monthly Voucher. N. B.—Only the *original* of Form MF–104 is required to be documented. The four copies of Form MF–104 are not to be thus supported.

Form MF–104 submitted for reimbursement under fixed price contracts on Form MF–200 (A), however, are not required to be supported by documentation of any kind. The Operator will submit his claim under item (1) of Form MF–104 by deleting as stated above the word "Independent" and by showing the number of feet or other units immediately after the appropriate descriptive word, such as, drilling, bulldozing, crosscutting, drifting, etc., and giving the "Monthly Total" amount due. "Totals Previously Reported", and "Totals to Date" columns should also be filled in.

GPO 83-38476

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151
Approval expires 6-30-53.

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of October 1954 Docket No. DMEA 2931 Contract No. Idr-[illegible]

Operator's Name Albert Leighton Howard Minerals Platinum

Address 16351 Ashworth Ave., Seattle 33, Wash. Group Metals

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT	
							Units	Unit Costs
Drifting								
Crosscutting								
Raising								
Shafts								
Winzes								
Drilling: Core								
Churn	Foot	2,760	230	12,000.00	1000	12.00	1000	12.00
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails								
TOTAL DISTRIBUTED COSTS								TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								None
Initial Rehabilitation and Repairs								None
New Buildings, Improvements, etc.								None
TOTAL COSTS		2,760		12,000.				12,000.00

The undersigned company, and the official executing this certification on its behalf, hereby certify that the information contained in this report is correct and complete to the best of their knowledge and belief.

Date Nov. 29 '54 Operator [signature]

Per Title

NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

REMARKS:

(Instructions on reverse)

(For Government use only)

INSTRUCTIONS

Preparation of Form MF-104A—Operator's Unit Cost and Progress Report.—Applicable places on Form 104A should be filled in by the Operator. The purpose of this form is twofold as follows: (1) to furnish the supervising engineers and other administrators with statistical information necessary to better determine the progress of the project; and (2) to furnish more permanent information on mining costs for future use. The more important phases of operation on which permanent information is desired have been outlined in the form. There are blank lines, however, for those unusual phases which may need to be reported for a particular project. It will be necessary for the Operator to distribute his costs among the applicable phases reported with the exception of three items the costs of which are not to be distributed by the Operator. These three items are: "Operating Equipment Purchased", "Initial Rehabilitation and Repairs", and "New Buildings, Improvements, etc." The reason for not distributing these items on a monthly basis is doubtless clear to the Operator, since such distribution might well overstate the cost for any one month or period short of the entire contract period.

Form MF-104A has been designed to tie in with Form MF-104 for both monthly and cumulative costs. The "Total Costs" on Form MF-104A for each month should equal the monthly "Total Costs" as reported on Form MF-104. This is also true of the "Total Costs To Date".

In preparing Form MF-104A, it will be necessary frequently to distribute certain costs over a number of items. For instance, supervisory and engineering costs may have to be distributed over several phases, such as, drifting, crosscutting, raising, etc., provided that these items were reported active for the month. Such distributions should be made on the basis of time spent on the various phases, on man days of labor charged to such phases, or on some other equitable basis. "Operating Equipment", "Initial Rehabilitation and Repairs", and "New Buildings Improvements, etc.", will be distributed to the several phases of the project by the Washington Office of DMEA at the close of the project if determined necessary. The last two columns headed "Authorized by Contract" will be filled in by the Operator if such information is found in the contract. This information is usually a part of Exhibit "A" of the contract. A space for remarks has been provided for the use of the Operator to call attention to any unusual circumstances causing excessive or disproportionate unit costs.

GPO 83-38475

January 13, 1955 xxx 560

Mr. Albert Leighton Howard
16351 Ashworth Ave.
Seattle 33, Washington

Dear Sir:

Your voucher for final payment under DMEA Contract No. Idm - 8379 has been cleared for payment.

In accordance with the provisions of the contract (Art. 4) 10% of the Government participation amount, $1,080.00, has been withheld pending final clearance from the DMEA Administrator in Washington, D.C.

Very truly yours,

L. J. Wilcox
Administrative Assistant

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION
~~WASHINGTON 25, D.C.~~

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JAN 17 1955

P. O. Box 560
Juneau, Alaska

January 14, 1955

Memorandum

To: Operating Committee, Defense Minerals Exploration Admin., Department of the Interior, Washington 25, D.C.

From: S. H. Lorain, Executive Officer, Field Team, Alaska District.

Subject: Operator's Report
Docket No. DMEA-2931 (platinum)
A. L. Howard

Enclosed herewith are two copies each of MF-104, MF-104A, operator's narrative report and operator's progress map. These data cover all of the operations performed last season.

It appears that Mr. Howard has discovered a paystreak of undetermined size; he plans to apply for a contract extension which will permit more nearly adequate determination of its size and value.

S. H. Lorain,
Executive Officer,
Field Team, Alaska District.

Encl. (4) - (in dup.)

16351 Ashworth Avenue
Seattle 33, Washington
November 26, 1954

RECEIVED
JAN 7 1955

Mr. S. H. Lorain, Executive Officer
Alaska Field Team, Region 1
D. M. E. A.
P. O. Box 560
Juneau, Alaska

Subject: Churn Drilling
McCann Creek
DMEA 2931. Idm-3579
October, 1954.

Dear Mr. Lorain:

In compliance with Amendment No. 1 of the above contract, 240 feet of six inch churn drill holes were driven between October 8th and October 20th.

The holes, six in number, disclosed a platinum metals paystreak on bedrock not less than 100 feet in width with an average thickness of 4.33 feet and an average weighted value of $4.00 a cubic yard.

In detail the results of drilling were:

LINE 1	Hole Number	Depth Feet	Milligrams Crude Pt.	Thickness Paystreak Ft.	Values Cu. Yd.
	4	23	Hole abandoned.	Bent Pipe.	Boulder.
Redrill	4'	41	91	5	$ 3.36
	5	39	183	6	5.64
	6	43	24	2	2.21
	7	48	4	0 (7)	.10
	8	46	Trace	0 (34)	Trace
Totals	6	240	302	Weighted Av.	$ 4.00

(7) Indicates thickness through which very fine colors occur.

(34) Same as above. Assigned pt. value 0.21¢ a mg.

Holes 1,2,3,9,10,11 and 12 not drilled, but locations shown for map profile.

The paystreak width has not been delimited to the northwest, that is toward Red Mountain, thought to be the source of all platinum in the district.

Formula for deriving values:

6 in. casing. 7⅝ in. drive shoe

$$V\ (¢\ \text{a cubic yd.}) \text{ equals } \frac{\text{Mg.Pt.} \times 0.21¢ \times 27}{\text{Depth (ft.)} \times 0.3068\ \text{(sq. ft.)}}$$

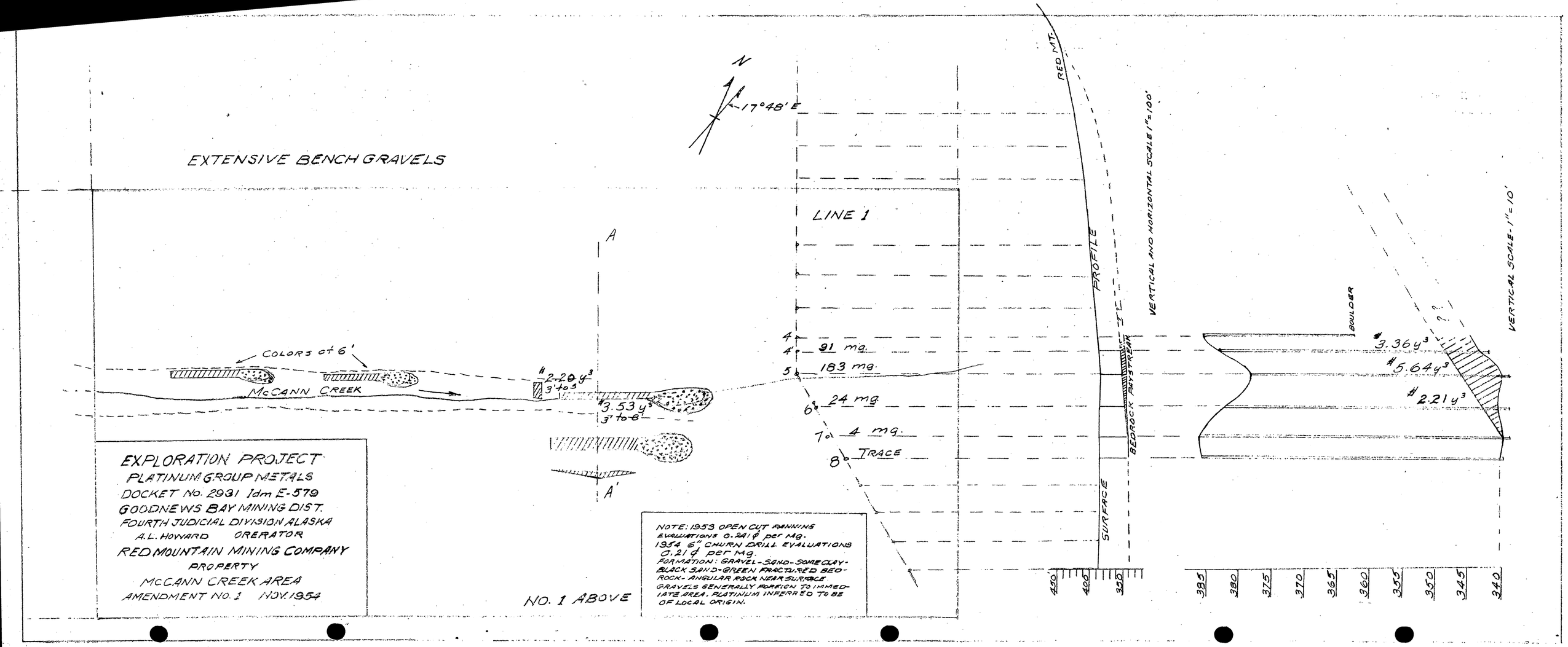
Results of drilling indicate a possible older undisturbed concentration of crude platinum on bedrock covered by a blanket of gravels derived from without the immediate area by later stream action.

The extent of the concentration of placer platinum has not been determined.

Sincerely yours,

A. L. Howard

A. L. Howard, Operator.


EXTENSIVE BENCH GRAVELS
N
17°48' E
LINE 1
A
A'
COLORS at 6'
McCANN CREEK
#2.20 y³
3' to 5'
#3.53 y³
3' to 8'
4
4+
91 mg.
5
183 mg.
6
24 mg.
7
4 mg.
8
TRACE
NO. 1 ABOVE
RED MT.
PROFILE
VERTICAL AND HORIZONTAL SCALE 1" = 100'
BEDROCK PAYSTREAK
SURFACE
450
400
350
BOULDER
#3.36 y³
#5.64 y³
#2.21 y³
VERTICAL SCALE - 1" = 10'
385
380
375
370
365
360
355
350
345
340
EXPLORATION PROJECT
PLATINUM GROUP METALS
DOCKET No. 2931 Idm E-579
GOODNEWS BAY MINING DIST.
FOURTH JUDICIAL DIVISION ALASKA
A.L. HOWARD OPERATOR
RED MOUNTAIN MINING COMPANY
PROPERTY
McCANN CREEK AREA
AMENDMENT No. 1 NOV. 1954
NOTE: 1953 OPEN CUT PANNING
EVALUATIONS 0.241¢ per MG.
1954 6" CHURN DRILL EVALUATIONS
0.21¢ per MG.
FORMATION: GRAVEL-SAND-SOME CLAY-
BLACK SAND-GREEN FRACTURED BED-
ROCK-ANGULAR ROCK NEAR SURFACE
GRAVELS GENERALLY FOREIGN TO IMMEDI-
ATE AREA. PLATINUM INFERRED TO BE
OF LOCAL ORIGIN.

Form MF-10 (Rev.)
(April 1952)

Budget Bureau No. 42-R1036.3.
Approval expires 6-30-53.

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of September, 1953 Docket No. DMEA 2931 Contract No. Ida -2579
Operator's Name Albert Leighton Howard Minerals Platinum Group Metals.
Address 16351 Ashworth Ave., Seattle 33, Washington.
Contract Amount, $ 12,000.00 Government Participation: 90 % Amount, $10,800.00

ITEMS OF COSTS	FOR OPERATOR'S USE			FOR GOVERNMENT USE ONLY		
	Monthly Total	Totals Previously Reported	Totals To Date	Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) ~~Independent~~ Short Form Contracts:						
Drilling	$9,240	None	$9,240	9,240	None	9,240
Bulldozing						
Crosscutting						
Drifting						
(2) Labor and Supervision:						
Labor						
Supervision						
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis						
Payroll Taxes						
Liability Insurance						
(8) Contingencies (specify):						
TOTALS	$9,240.	None	$9,240	9,240	None	9,240

I certify that the above bill is correct and just and that payment therefor has not been received.
Date October 27'53 *Payee A. L. Howard

Per _____ Title _____

*When a voucher is signed or receipted in the name of a company or corporation, the name of the person writing the company or corporate name, as well as the capacity in which he signs, must appear. For example: "John Doe Company, per John Smith, Secretary," or "Treasurer," as the case may be.

NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

(Instructions on reverse)

Pursuant to authority vested in me, I certify that this account is correct and proper for payment in the amount of:

$ 8,316.00

Signature Lucien J. Sheer
L. J. Sheer (Certifying Officer)
Date 10/29/53 Vou. No. DMEA #21

(See other side)

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. ..... in accordance with the terms of the contract.

Signature ..... Title ..... Date .....

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE: Executive Officer Alaska Field Team Region I

Signature ..... Title ..... Date 10/29/53

MONTHLY REPORT OF OPERATOR

The Operator (Contractor) of an exploration project is required to make a monthly report to the Government through the Regional Executive Officer. This report consists of three parts as follows:

(*a*) *Form MF–104—Operator's Monthly Report and Voucher.*—This form details expenditures and constitutes a voucher for reimbursing the Operator for the Government's share of costs;

(*b*) *Form MF–104A—Operator's Unit Cost and Progress Report.*—This is a statistical report of expenditures which shows costs for the various types of operation; and

(*c*) *Narrative.*—A concise narrative description of progress made, results accomplished, and any unusual difficulties encountered must be furnished as an attachment to this Report and Voucher. Wherever possible, the narrative is to be illustrated with maps or sketches showing formations penetrated and location and assays of samples taken as well as advances in workings. In the case of diamond drilling or churn drilling, the location and inclination of holes is to be shown on a map; logs and assays also are to be submitted.

The Monthly Report of Operator should be prepared in an original and four copies all of which must be sent to the Executive Officer of the Region not later than the 15th of the month following.

Preparation of Form MF–104—Operator's Monthly Report and Voucher.—All the applicable spaces in Form MF–104 should be filled in by the Operator, and the Operator or his agent should sign the certification in the lower left corner of the form.

The items of costs are arranged in the order they appear in Article 6 (a) of Form MF–200 (Revised February 1952), however, this form is readily adaptable for use in reporting activities under other contract forms.

Under Item (1) delete words "Short Form" if the contract is a sub-contract under Form MF–200; and delete word "Independent" if the contract reported is on Form MF–200 (A). Also, report work paid for on a unit basis under contract Form MF–200 as though it were performed under an independent contract.

Under Item (2) include labor, supervision and technical services incurred for the exploratory operations. Do not include labor, supervision and technical services used for work performed under items (5) and (6).

Under Item (3) include the costs of material and supplies used in the project other than that used under items (5) and (6).

Under Item (4) appear the three types of operating equipment expenditures, that is, rental, purchase and depreciation. The expenditures made for renting equipment belonging to a third party will be reported under "Rental". The amount paid or duly obligated for payment for the purchase of equipment will be reported under "Purchase". The amount of expenditures due the Operator to reimburse him for depreciation of equipment owned will be reported under "Depreciation".

Item (5) comprises costs of labor, supervision, technical services, materials, etc., which are used in the initial rehabilitation and repair of existing buildings, installations, fixtures, and equipment. These costs, therefore, should not be reported under items (2) and (3).

Item (6) includes the labor, supervision, technical services, materials, etc., used in the installation or construction of new buildings, fixed improvements, etc., necessary for the project. These costs, therefore, should not be reported under items (2) and (3).

Item (7) covers miscellaneous types of expenditure such as payroll taxes, liability insurance, workmen's compensation insurance, repairs to equipment and sampling and analysis. Only that part of payroll taxes, liability insurance and workmen's compensation which are paid by the operator should be reported under item (7). The share paid by the employee as a payroll deduction is to be included under item (2) as labor costs.

Item (8) includes any unforeseen costs not included in the other seven categories.

The original of Form MF–104 when submitted for reimbursable expenses incurred under contract Form MF–200 must be supported by original documentation or by certified copies of purchase orders, payrolls or transcripts of payrolls, unless such documentation has been waived by the Regional Executive Officer. This certification may be stated thus, "Certified True Copy (or Transcript)", followed by appropriate signature. If the Executive Officer of the Region determines that a contract under Form MF–200 should have an "on-site" audit, that is, a Government auditor should make an audit of the Operator's books and records of account, the Operator need not support his monthly voucher with original or certified documents except in cases of equipment purchases whose individual costs exceed $50.00. In these cases the original or a certified copy of the purchase order or invoice should be attached to the Monthly Voucher. N. B.—Only the *original* of Form MF–104 is required to be documented. The four copies of Form MF–104 are not to be thus supported.

Form MF–104 submitted for reimbursement under fixed price contracts on Form MF–200 (A), however, are not required to be supported by documentation of any kind. The Operator will submit his claim under item (1) of Form MF–104 by deleting as stated above the word "Independent" and by showing the number of feet or other units immediately after the appropriate descriptive word, such as, drilling, bulldozing, crosscutting, drifting, etc., and giving the "Monthly Total" amount due. "Totals Previously Reported", and "Totals to Date" columns should also be filled in.

GPO 83-38476

Form MF-194A
(April 1952)

Budget Bureau No. 42-R1151
Approval expires 6-30-53.

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

DEPARTMENT OF THE INTERIOR
Defense Minerals Exploration
RECEIVED
NOV 2 1953

Month of September 1953 Docket No. DMEA 2931 Contract No. Idm-5379
Operator's Name Albert Leighton Howard Minerals Platinum Group
Address 16352 Ashworth Ave., Seattle 33, Washington Rate: 2a

OPERATION	Unit	Costs This Month	Units This Month	Costs to Date	Units to Date	Unit Costs to Date	Authorized by Contract: Units	Authorized by Contract: Unit Costs
Drifting								
Crosscutting								
Raising								
Shafts								
Winzes								
Drilling: Core								
Churn	cat	$9,240	770	$9,240.	770	$12.00	1000	$12.00
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails								
Total Distributed Costs								Total Costs Authorized by Contract
Operating Equipment Purchased								None
Initial Rehabilitation and Repairs								None
New Buildings, Improvements, etc.								None
Total Costs								$12,000.00

The undersigned company, and the official executing this certification on its behalf, hereby certify that the information contained in this report is correct and complete to the best of their knowledge and belief.

Date Oct. 27, 1953 Operator A. L. Howard

Per Title

NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

Remarks:

(Instructions on reverse)

(For Government use only)

INSTRUCTIONS

Preparation of Form MF–104A—Operator's Unit Cost and Progress Report.—Applicable places on Form 104A should be filled in by the Operator. The purpose of this form is twofold as follows: (1) to furnish the supervising engineers and other administrators with statistical information necessary to better determine the progress of the project; and (2) to furnish more permanent information on mining costs for future use. The more important phases of operation on which permanent information is desired have been outlined in the form. There are blank lines, however, for those unusual phases which may need to be reported for a particular project. It will be necessary for the Operator to distribute his costs among the applicable phases reported with the exception of three items the costs of which are not to be distributed by the Operator. These three items are: "Operating Equipment Purchased", "Initial Rehabilitation and Repairs", and "New Buildings, Improvements, etc." The reason for not distributing these items on a monthly basis is doubtless clear to the Operator, since such distribution might well overstate the cost for any one month or period short of the entire contract period.

Form MF–104A has been designed to tie in with Form MF–104 for both monthly and cumulative costs. The "Total Costs" on Form MF–104A for each month should equal the monthly "Total Costs" as reported on Form MF–104. This is also true of the "Total Costs To Date".

In preparing Form MF–104A, it will be necessary frequently to distribute certain costs over a number of items. For instance, supervisory and engineering costs may have to be distributed over several phases, such as, drifting, crosscutting, raising, etc., provided that these items were reported active for the month. Such distributions should be made on the basis of time spent on the various phases, on man days of labor charged to such phases, or on some other equitable basis. "Operating Equipment", "Initial Rehabilitation and Repairs", and "New Buildings Improvements, etc.", will be distributed to the several phases of the project by the Washington Office of DMEA at the close of the project if determined necessary. The last two columns headed "Authorized by Contract" will be filled in by the Operator if such information is found in the contract. This information is usually a part of Exhibit "A" of the contract. A space for remarks has been provided for the use of the Operator to call attention to any unusual circumstances causing excessive or disproportionate unit costs.

GPO 83-38475

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
OCT 20 1958

Mr. S. H. Lorain, Executive Director,
Alaska Field Team,
Region I, Juneau, Alaska.

To Accompany MV-104
Docket No. DMA 2931
Idm-579

Dear Mr. Lorain:

A program of Platinum group metals exploration in the Goodnews Bay Mining District was initiated under DMA authorization, on the claims of the Red Mountain Mining Company, situated on the eastern slopes of Red Mountain.

Operations commenced on August 28 and ceased October 2. 69 cased holes, all in thawed ground were driven. The total footage amounted to 770 with an average depth of 11.16 feet per hole. The inside diameter of the casing was 6 inches and the outside diameter of the drive shoe was 7½ inches.

A grid pattern of drilling was adhered to with modifications suggested by topographic features. The spacing between the lines of holes was generally 600 feet with holes spaced at 100 feet intervals. As drilling progressed hole intervals were in some cases increased and in one case, on line A, decreased to 50 feet.

The line A series of holes was drilled parallel to the south end of Portland Bench Claim at a distance of 230 feet from the end line. Prospects had been previously found in an open cut immediately contiguous to the road leading to Platinum. Hole No. 6 above the road yielded 10 milligrams of crude placer platinum. The calculated value a cubic yard in gravels 12 feet in depth, was 18¢. A slight depression of bench is indicated here.

A concentration of platinum was found along line B approximately paralleling the right(south) limit of Boulder Creek at an average distance of 100 feet from the present stream. The average content per hole was 6 mg. commencing with hole 8 to 15 inclusive, 800 feet to 1500 feet westward from the intersection of line B with the east side line of Portland Bench Claim. The calculated average value a cubic yard of gravel is 25¢ for a depth of 6.5 feet and a net platinum group metals vaulation of 0.24113¢ a milligram. Values are concentrated in the three feet of gravels immediately above bed rock. No coarse colors were recovered though fairly common in the immediate creek viwinity.

Evidence of deeper ground was found in hole No. 1, line C, 600 feet north from and parallel to line B. This hole immediately west from the side line on First Tier 7 Above Claim, penetrated bedrock at a depth of 50 feet. Three feet immediately above bedrock yielded 7 mg. of platinum with a negligible value of 1.69¢. This area was undoubtedly occupied in recent time by the present Salmon River now having its bed a few hundred feet to the east.

No evidence was found of the southward continuance of the older channel inferred as having crossed Clara Creek some distance to the north. It is thought that this channel may have an extension upstream paralleling mined out Clara Creek on the latter's right (south) limit and a possible down stream extension into the Annie Gulch area.

LMEA. Idm-579.
Docket No. 2931
To Accompany MF-104.

The searched for channel may have crossed the present Salmon stream bed section before the latter was established and been an upstream extension into Clara Creek valley of the ancient East channel which disappears at a point opposite the mouth of Annie Gulch.

A few shallow holes between Clara Creek and Dowry Creek prove that the channel does not extend south of Annie Gulch on the West side of Salmon River. Nor is it apparently a part of a postulated former Dowry Creek drainage.

Seasonal drilling ceased on October 1 with 230 feet remaining in the present contract authorization.

Respectfully submitted,

A. L. Howard

A. L. Howard, Operator

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
~~WASHINGTON 25, D.C.~~

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
NOV 13 1953

P. O. Box 560
Juneau, Alaska
November 6, 1953

MEMORANDUM

To: Operating Committee
Defense Minerals Exploration Administration
Washington 25, D.C.

From: S. H. Lorain

Subject: Operator's monthly report, Docket No. DMEA-2931
Albert Leighton Howard

Enclosed herewith are two copies each of form MF-104, form MF-104A, operator's narrative report and profile sketches for the month of September 1953.

The operator completed his exploration of the "Portland Bench area" without making a discovery of importance. Approximately $1,600 of the authorized contract amount was unexpended. The operator is preparing a final report and a request for an amended contract to permit work in the McCann Creek area.

S. H. Lorain, Executive Officer
Alaska Field Team, Region I

Enclosures 4

cc: C.L.Sainsbury

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

APR 23 1956

Mr. Albert Leighton Bennett
[illegible] Ashworth Avenue
Seattle 33, Washington

Re: Contract No. [illegible] (Platinum)
Contract No. [illegible] (Amended)
Red Mountain [illegible]
Goodnews Bay Mining District, Alaska

Dear Mr. Bennett:

Reference is made to your exploration contract with the Government.

We sincerely regret that the work performed did not result in a certification of discovery or development under the provisions of the contract. In the absence of such certification, the Government retains no claim or lien against the property subject to the contract or any future production therefrom. We, therefore, are closing our books and records on this project. Your attention, however, is called to the provisions of the contract which require the operator to keep and preserve certain records for the period indicated.

Your interest in the DMEA exploration program and participation therein are fully appreciated.

Sincerely yours,

C. O. Mittendorf

Administrator

Copy to:
Red Mountain Mining Company, Inc.
R. L. Bissell, President
Christian Lebrecht, Treasurer
[illegible] Federal Arts Building
Seattle, Washington

cc: Admr.'s Reading File
Docket
James E. Hall, No. [illegible]
T. H. Killegaard, No. [illegible]
Contract Adm. & Audit Division
DMEA Field Team, Region I, Alaska District (R)
Code 700
Mr. Murphy
Mr. Johnson

700

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

APR 23 1956

Mr. N. L. Bissell, President
Red Mountain Mining Company, Inc.
338 Medical Arts Building
Seattle, Washington

Re: Docket No. 1954-0931 (Platinum)
Contract No. DMe-2579 (Amended)
Albert Leighton Howard
Red Mountain Mining
Goodnews Bay Mining District, Alaska

Dear Mr. Bissell:

With respect to the captioned contract and the Owner's Consent to Lien, dated July 27, 1953, which was signed by officers of your Company, we are enclosing a copy of a letter to Mr. Albert Leighton Howard, for your information.

Sincerely yours,

C. O. Mittendorf

Administrator

FTMurphy/gla
4-23-56

cc to: Admr.'s Reading File
Mr. Johnston
Docket
James E. Ball, Rm. 3608
T. H. Killingsord, Rm. 5224
Contract Adm. & Audit Division
DMEA Field Team, Region I, Alaska District (2)
Code 700
Mr. Murphy

Docket No. 2931

Commodity Platinum Group Metals

DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

STRATEGIC AND CRITICAL MINERALS EXPLORATION PROGRAM

TO: Chief, Finance Section, Budget and Finance Branch, Bureau of Mines

Please enter on the records of the Defense Minerals Exploration Administration under the Strategic and Critical Minerals Exploration Program, the following contract, or amendment to contract.

Contract No. Idm-E 579

Date of Contract ~~or Amendment~~: August 10, 1953

Name and Address of Operator:

Albert Leighton Howard
16351 Ashworth Ave.,
Seattle 33, Washington

Amount of Government participation _____ $24,300.00

Percent of Government participation 75 %

Region: I NW State: Alaska

Note: Please release $7,488.00. Contract terminated.

E. L. Talbert
(Name)
for L. Chambers, Chief
Contract Administration and
Audit Division
(Title)

Date Delivered to Bureau of Mines, Washington. 3/25/56

54458

Docket No. DMEA - 2931

Commodity Platinum Group Metals

DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

STRATEGIC AND CRITICAL MINERALS EXPLORATION PROGRAM

TO: Chief, Finance Section, Budget and Finance Branch, Bureau of Mines

Please enter on the records of the Defense Minerals Exploration Administration under the Strategic and Critical Minerals Exploration Program, the following contract, or amendment to contract.

Contract No. Idm-E 579

Date of [redacted] Amendment: May 1,1955

Name and Address of Operator:
Albert Leighton Howard
16351 Ashworth Ave.,
Seattle 33, Washington

Amount of Government participation _____ $ 24,300.00

Percent of Government participation 75 %

Region: 1 State: Alaska

Note: This document cancels the previous obligation $10,800.00 and establishes the above amount.

(Name)
J. L. Chambers
Chief, Contract Administration and Audit Division

(Title)

Date Delivered to Bureau of Mines, Washington. 5/10/55

54458

Government's RECEIVED

SEP 26 1955

MF-200A
(Revised June 1954)

Docket No. DMEA - 2931
Platinum Group
Commodity Metals

Contract No. Idm-E 579

UNITED STATES OF AMERICA
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
AMENDED EXPLORATION PROJECT CONTRACT[1]
(Short Form)

It is agreed ~~this~~ as of the first day of May, 1955, between the United States of America, acting through the Department of the Interior, Defense Minerals Exploration Administration, hereinafter called the "Government," and [2] Albert Leighton Howard, whose mailing address is 16351 Ashworth Avenue, Seattle 33, Washington, hereinafter called the "Operator," as follows:

ARTICLE 1. *This contract* is entered into under the authority of the Defense Production Act of 1950, as amended. It consists of this form (MF-200A), the attached Exhibit "A," Annex I, and Annex II.

The Operator shall not transfer or assign this contract or any right thereunder without the written consent of the Government.

ARTICLE 2. *Operator's property rights.*—(a) The land which is the subject of this contract (hereinafter called "the land") is in the ~~State of~~ Territory of Alaska, ~~County of~~ Goodnews Bay Fourth Judicial Division, and is described in Annex I.[3]

(b) The Operator represents and undertakes that:

(1) The Operator is the [4] lessee of [5] the mineral rights in the land, in possession and entitled to possession for all of the purposes of this contract, under and by virtue of a [6] lease, [7] un recorded in Book --, page --, official records of said County; and

(2) The Operator's right, title, or interest (whether as owner, lessee, or otherwise) is subject only to the following claims, liens, or encumbrances: none

(c) The Subordination Agreement of the holder of any claim, lien, or encumbrance listed above, and (if the Operator does not hold the legal title) the Consent to Lien of any holder of the legal title of the land (lessor, seller, optionor, etc.), are attached, as follows: Consent to Lien of lessor.

[1] If sufficient space is not provided in any blank, use an extra sheet of paper and refer to it in the blank.
[2] Insert name, and if an organization, its nature (corporation and place of incorporation, partnership with names of partners, etc.).
[3] State on a separate sheet marked "Annex I" the legal description or enough to identify the property, particularly excluding any areas from which the production is not to be subject to the Government's percentage royalty.
[4] Insert "owner," "lessee," "contract purchaser," "locator," etc.
[5] Insert "the entire interest," "the mineral rights," "an undivided one-third," etc.
[6] Insert "deed," "lease," "contract," "location notice," "patent," etc.
[7] If not recorded, so indicate by inserting "un."

(d) The Operator shall preserve and maintain his right, title, and interest in the land and his right to the possession thereof for the purposes of this contract, and shall devote the land and all existing improvements, facilities, buildings, installations, and appurtenances to the purposes of this contract. Until the lapse of the time within which the Government may make a certification of discovery or development without any such certification having been made, and after any such certification has been made, the Operator shall neither transfer, convey, nor surrender the land nor any right, title, or interest therein, nor permit nor suffer any claim, lien, or encumbrance thereon, without expressly referring to and providing in the instrument of conveyance, lien, or encumbrance for the preservation of the Government's right to a percentage royalty on production and lien for the payment thereof. If the Government makes no certification of discovery or development within the time limited in Article 7, it shall thereafter have no claim against the land or any production therefrom except for any production referred to in Article 7(b)(1).

ARTICLE 3. *The exploration project.*—The project is a search for indicated or undeveloped deposits of platinum group metals. The work to be performed is described in Exhibit "A." The Operator on or before Sept. 15, 1955 shall commence the work, and on or before November 1, 1955 (unless the Operator's obligation to complete the work is terminated—see Article 8) shall complete the work.

ARTICLE 4. *Performance of the work.*—(a) *Operator's responsibility.*—The work shall be performed with reasonable diligence, efficiently, expertly, in a workmanlike manner, in accordance with good mining standards and State regulations for health and safety and for liability insurance covering employment; and with suitable and adequate equipment, facilities, materials, supplies, and labor, to bring it to completion within the time fixed.

(b) *Government may inspect.*—The Operator shall consult with and inform the Government on all phases of the work as it progresses. The Government may enter at all reasonable times to inspect the work under the contract, and also after a certification of discovery or development to inspect production operations and underground workings. The operator shall provide the Government with all reasonable means of access for such inspections.

ARTICLE 5. *Contribution by the Government.*—A fixed cost for each unit of work to be performed (per foot of drifting, per foot of drilling, per hour of operations, etc.) is hereby agreed upon, and is set forth in Exhibit "A" in connection with the estimated total cost of the project in the sum of $30,000.00. The Government will contribute 75 percent of the fixed unit costs as work is performed, in a total sum not in excess of $ See Exhibit "A": *Provided,* That until the Operator has rendered to the Government his final report, and any final auditing required by the Government has been made, and a final settlement of the contract has been made, the Government may withhold from the last voucher or vouchers such sums as it sees fit not in excess of 10 percent of the estimated total cost of the work. The Government will make its contribution on the basis of the monthly vouchers referred to in Article 6(b), but all payments by the Government are provisional only, subject to audit, until the account between the Operator and the Government is finally audited and settled. To the extent that excesses over fixed unit costs or any excess over the estimated total cost may be necessary for the performance of the work, the Operator shall incur and pay such excesses for his own account without contribution by the Government. The Government may make payments directly to independent contractors and suppliers for the account of the Operator rather than to the Operator.

ARTICLE 6. *Reports, accounts, audits.*—(a) *Operator's records.*—The Operator shall keep suitable records and accounts of the units of work performed and of any production in which the Government may have an interest; and shall preserve those with respect to work performed for at least three years after final payment by the Government, and those with respect to production for at least three years after any obligation to pay royalties to the Government has terminated. The Government may inspect and audit said records and accounts at any time, either by itself or by a certified public accountant. The Comptroller General of the United States or his representative, until the expiration of said three-year periods, shall have access to and the right to examine any pertinent books, documents, papers, and records of the Operator. All of the Operator's vouchers and records and accounts relating thereto and the Government's payments thereof remain subject to adjustment until final audit by the Government.

(b) *Progress reports and vouchers.*—The Operator shall provide the Government with five copies of monthly progress reports in three sections as follows: (1) Operator's Monthly Report and Voucher showing a detailed statement of units of work performed during the reporting period; (2) Operator's Unit Cost and Progress Report showing the various types of work performed during the reporting period and the fixed unit costs incurred for each type of work; and (3) a Narrative Report of the work

performed during the reporting period including adequate engineering-geological maps or sketches, drill hole logs and locations, and assay reports on samples taken concurrently with advance in mineralized ground. (Forms for reporting under (1) and (2) above will be provided by the Government.)

(c) *Final report.*—Upon completion of the work or termination of the Government's obligation to contribute to costs, the Operator shall furnish the Government with five copies of a final report (in addition to the final progress report and voucher). This final report shall include a geological and engineering evaluation of the results of the work performed under the contract with an estimate of the ore reserves resulting from such work, complete assay data, adequate geological and engineering maps or sketches, and a summary of the work performed and the unit costs thereof.

(d) *Report of sales.*—The Operator shall provide the Government with suitable accounting and documentary evidence covering all production to which the Government's percentage royalty relates, such as copies of smelter or concentrator settlement sheets, and certified accounts of production and sale or other disposition of production.

(e) *Compliance with requirements.*—If in the opinion of the Government any of the Operator's reports, records, or accounts are insufficient or incomplete, or if the Operator fails to make them, the Government may procure the making or completion of such with suitable attachments as an expense of the work to which the Operator shall contribute. The Government may withhold approval and payment of any vouchers relating to insufficient or incomplete reports, records or accounts.

ARTICLE 7. *Repayment by Operator.*—(a) *Certification.*—If the Government considers that a discovery or development from which production may be made has resulted from the work, the Government, at any time not later than six months after a sufficient final report and final account (see Article 6) has been rendered, may so certify in writing to the Operator. Such certification shall describe broadly or indicate the nature of the discovery or development.

(b) *Royalty on production.*—The Operator, as principal if the Operator is the producer, or as surety if the Operator is not the producer, shall pay to the Government a royalty on all minerals mined or produced from the land, as follows: (1) regardless of any certification of discovery or development, from the date of the contract until the lapse of the time within which the Government may make such certification, or until the total net amount contributed by the Government without interest is fully repaid, whichever occurs first; or (2) if the Government makes a certification of discovery or development, within a period of ten years from the date of the contract, or until the total net amount contributed by the Government without interest is fully repaid, whichever occurs first. See Article 11.

(c) *Basis for computation.*—The Government's royalty shall be a percentage of the gross proceeds (including any bonuses, premiums, allowances, or other benefits) from the production sold, in the form sold (ore, concentrates, metal, or equivalent), at the point of delivery (the f. o. b. point); *except,* that charges of *the buyer* arising in the regular course of business, and shown as deductions on the buyer's settlement sheets, on account of the cost of treatment processes performed by *the buyer,* sampling and assaying to determine the value of the production sold, and freight paid by *the buyer* to a carrier (not the Operator), shall be allowed as deductions in arriving at the "gross proceeds" as that term is used herein. Any costs of treatment processes, sampling or assaying, or transportation, performed or paid by the Operator or by anyone other than the buyer, are not deductible in arriving at the "gross proceeds" as that term is here used. The term "treatment processes," as here used, means those processes (such as milling, concentrating, smelting, refining, or equivalent) applied to the crude ore or other production after it is extracted from the ground, to put it into a commercially marketable form; excluding fabricating or manufacturing.

(d) *Unsold production.*—If any production (ore, concentrates, metal, or equivalent), after the lapse of six months from the date the ore was extracted from the ground, remains neither sold nor used by the Operator in integrated manufacturing or fabricating operations (for instance, if it is stockpiled), the Government, at its option, as long as it so remains, may require the computation and payment of its royalty on the value of such production in the form (ore, concentrates, metal, or equivalent) it is in when the Government elects to require computation and payment. If any production is used by the Operator in integrated manufacturing or fabricating operations before the Government makes its election, the Government's royalty on such production shall be computed on the value thereof in the form in which and at the time when it is so used. "Value" as here used means what is or would be gross income from mining operations for percentage depletion purposes in Federal income tax determination, or the market value, whichever is greater.

(e) *Percentages of royalty.*—The percentages of the Government's royalty shall be as follows:

One and one-half (1½) percent of amounts ("gross proceeds" or "value") not in excess of eight dollars ($8.00) per ton of production in the form in which sold, held, or used, plus one-half (½) percent for each additional full fifty cents ($0.50) by which such amounts exceed eight dollars ($8.00) per ton, but not in excess of five (5) percent of such amounts.

(For instance: the royalty on an amount of five dollars ($5.00) per ton would be one and one-half (1½) percent; on an amount of ten dollars ($10.00) per ton, three and one-half (3½) percent.)

(f) *Time for computation and payment.*—The Government's royalty shall be computed and paid currently upon each lot sold, held, or used in integrated operations, as the case may be, as above provided in this article.

(g) *Lien for payment.*—To secure the payment of its percentage royalty, there is hereby granted to the Government a lien upon the land or the Operator's interest in the land and upon any production of minerals therefrom, until the royalty claim is extinguished by lapse of time or is fully paid.

(h) *Notice to purchasers.*—The Operator shall give notice of the Government's claim for royalty to any purchaser of the production, and shall authorize and direct such purchaser to pay the royalty directly to the Government and to furnish the Government with copies of the settlement sheets. If the records of any production and sales or other disposition of production, whether the production is by the Operator or by others, are not made available to the Government, the amount of the royalty may be estimated by the Administrator, Defense Minerals Exploration Administration, or his successor, and his estimate thereof shall be final and binding upon the Operator.

(i) *No obligation to produce.*—Nothing in this contract is to be construed as imposing any obligation on the Operator or the Operator's successor in interest to engage in any production operations.

(j) *Government not obligated to buy.*—Nothing in this contract shall be construed as imposing any obligation on the Government to purchase any minerals mined or produced from the land.

ARTICLE 8. *Termination of the Government's obligations.*—(a) If in the opinion of the Government operations at any time have failed to achieve anticipated results that indicate the probability of making a worthwhile discovery, and in the opinion of the Government further operations are not justified, the Government may give the Operator written notice thereof, and thereupon the Government shall be free of all obligation to pay on account of units of work not then performed, and the Operator shall be free of all further obligation to prosecute the work other than such as may be necessary and incidental to winding up, reporting, and accounting.

(b) If in the opinion of the Government the Operator is in any manner in default under the terms of the contract, the Government may give the Operator written notice of such default with a specification of reasonable time within which the default must be cured; and if the Operator fails to cure such default as required, thereupon the Government shall be relieved of all obligation to pay on account of units of work not performed when the notice was given, and the Operator shall be free of all obligation to prosecute the work other than such as may be necessary and incidental to winding up, reporting, and accounting. The remedy provided for the Government in this paragraph "(b)" is in addition to any other remedy provided in this contract, and in addition to any other remedy the law may provide for breach of contract.

(c) The giving of any notice by the Government under the provisions of this Article 8 shall not affect the Government's rights as provided for in the contract with respect to a percentage royalty, and such rights shall be fully preserved.

ARTICLE 9. *Notices to be given by the Government* may be delivered to the Operator, or may be sent by registered mail addressed to the Operator at his mailing address stated in this contract. If mailed, notices are deemed to have been delivered five days after the date of mailing.

ARTICLE 10. *Officials not to benefit.*—No member of or delegate to Congress or resident commissioner shall be admitted to any share or part of this contract or to any benefit that may arise therefrom; but this provision shall not be construed to extend to this contract if made with a corporation for its general benefit.

ARTICLE 11. *Changes and added provisions.*—
In Article 7(b)(2) the period "eleven years" is substituted for the period "ten years."

Executed in sextuplicate ~~the day and year first above written~~ this 7th day of September, 1955.

THE UNITED STATES OF AMERICA

ALBERT LEIGHTON HOWARD
(Operator)

By Frank E. Johnson
ACTING Administrator, Defense Minerals Exploration Administration

By Albert Leighton Howard
16351 Ashworth Ave.
Seattle 33, Wash.

I, ..., certify that I am the ..... secretary of the corporation named as Operator herein; that ..... who signed this contract on behalf of the Operator, was then ..... of said corporation; that said contract was duly signed for and in behalf of said corporation by authority of its governing body, and is within the scope of its corporate powers.

.....

[CORPORATE SEAL]

U. S. GOVERNMENT PRINTING OFFICE 16—70618-1

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AMENDED EXPLORATION PROJECT CONTRACT
ALBERT LEIGHTON HOWARD
DOCKET NO. DMEA-2931

ANNEX I

The land referred to in Article 2 of the contract was leased by Red Mountain Mining Company to the Operator in an instrument dated June 27, 1952, for a period of 25 years. It consists of 30 unpatented placer mining claims, which are recorded in the Bethel Recording District ~~of Bethel~~, Fourth Judicial Division of the Territory of Alaska, as follows:

Claim	Volume	Page
Portland Bench	2	317
Three Star Bench	3	241
Discovery (Boulder Creek)	3	21
Brooklyn Bench	3	303
Hardluck Bench	2	230
First Tier - Seven above Bench	2	305
Oakland Bench	3	302
Osmiridium Bench	3	236
Frisco Bench	3	303
Benny Bench	2	95
Jenny Bench	3	235
Sugar Bench	2	73
Honey Bench	2	61
Surprise Bench	1	116
New York Bench	3	303
Boston Bench	3	304
Chicago Bench	3	305
Bessie Bench	3	305
Moonlight Bench	3	305
Northern Light Bench	3	241
Summit Bench	2	85
Zero Bench	3	242
No. 1 Above (McCann Creek)	3	236
Punch Bowl	3	21
Minnie Gulch	2	85
Discovery (McCann Creek)	2	274
No. 1 Below	2	275
No. 2 Below (McCann Creek)	3	237
M & C Fraction	2	73
Basin Claim		

Any property or interests in property which are contigious to or in the vicinity of the property referred

to in Article 2 of this Amended Contract or in this Annex I, owned or held by the Operator as of August 10, 1953, or acquired thereafter so long as royalty is due the Government, shall be considered as included in the land referred to in Article 2, and the Operator shall notify the Government in writing of any such property or interests in property acquired.

Some of the land is shown on the attached map, Figure 4.

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SEP 26 1955

AMENDED EXPLORATION PROJECT CONTRACT
ALBERT LEIGHTON HOWARD
DOCKET NO. DMEA-2931

ANNEX II

The parties to this Amended Contract are also parties to Contract Idm-E579 (Docket No. DMEA-2931), dated August 10, 1953, executed on Form MF-200A (February 1952), as amended, hereinafter called the "Prior Contract." The work described in the Prior Contract is completed and the parties desire to increase the scope of the project, to increase the estimated total cost of the project, and to restate their agreement on Form MF-200A (Revised June 1954).

NOW THEREFORE, it is agreed that:

1. Effective May 1, 1955, the Prior Contract is superseded by this Amended Contract, which shall govern the Government's claim and lien for percentage royalty, and in which all the rights and obligations of the parties are fully merged, except that vouchers and claims for the Government's contribution to the work performed under the Prior Contract shall be made as provided therein.

2. The total amount of money contributed by the Government under the Prior Contract is repayable under the royalty provisions of this Amended Contract.

3. The Operator hereby releases and agrees to save the Government harmless from all claims and demands arising out of the Prior Contract, except as herein otherwise provided.

AMENDED EXPLORATION PROJECT CONTRACT
ALBERT LEIGHTON HOWARD
DOCKET NO. DMEA-2931

EXHIBIT "A"

Description of the Work

The project work is divided into two phases.

Phase I consists of the work completed under the Prior Contract.

Phase II consists of churn drilling six lines of placer churn drill holes, normal to the flow of McCann Creek, on lines marked "A" to "F" on the map entitled "Figure 4, Exploration Project, Platinum Group Metals, Docket No. 2931, Idm-E579, etc.," which is attached hereto and made a part hereof.

The drilling under this Phase II is divided into two stages. The Operator shall complete Stage 1 and shall perform so much of the second stage as is approved in advance by the Government.

Stage 1

Drill the required number of holes to complete lines "C," "B," and "D," in that order. The holes shall be drilled at 50-foot intervals on each line; however, at the indicated or inferred center of the channel, two (2) offset holes also may be drilled, not less than 25 feet from any other hole. The spacing of drill holes in Stage 1 also applies to the spacing of drill holes in Stage 2.

Not in excess of 750 feet of churn drilling shall be performed under Stage 1.

Stage 2

Drill on lines "A," "E," and "F," in that order, not in excess of 750 feet.

The specifications set forth in the last four paragraphs of the Exhibit "A" attached to the Prior Contract shall apply to all Phase II work.

No hole shall be started under either stage that cannot be completed within the maximum footage established for said stage.

Fixed Unit Costs - Phase II

Stage 1

750 feet of churn drilling @ $12.00/ft.	$ 9,000.00	

Stage 2

750 feet churn drilling @ $12.00/ft.	9,000.00	
Estimated Total Fixed Unit Costs, Phase II		$18,000.00

S U M M A R Y

Phase I

Total Agreed Unit Costs	$12,000.00	
Government Participation @ 90%		$10,800.00

Phase II

Estimated total Fixed Unit Costs	18,000.00	
Government Participation @ 75%		$13,500.00
Estimated Total Cost of the Project	$30,000.00	
Government Participation		$24,300.00

MF-203
Revised March 24, 1955

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For Government's Use Only
EXPLORATION PROJECT CONTRACT
Operator
Docket No. DMEA-
Contract No. Idm-E
Contract Date

CONSENT TO LIEN

To the United States of America:

Referring to that certain land in the ~~County of~~ Territory, ~~State~~ of Alaska, described as follows:1/

Goodnews Bay, Fourth Judicial Division: Thirty (30) unpatented placer mining claims situated on the eastern slopes of Red Mountain near Platinum, Goodnews Bay Mining District, Alaska, more fully described in the attachment to Owner's Consent to Lien and in Annex II, both attached hereto and made a part hereof.

which is the subject of a proposed exploration project contract, hereinafter called the "contract," with the United States of America, hereinafter called the "Government;" in consideration of the contract and as an inducement to the Government to enter into it, the undersigned hereby--

1. Undertakes and agrees that property in which the Government may acquire an interest or equity under the contract may be dismantled, severed from the land, and removed, as may be provided in the contract; and the Government's interest and equity in such property shall be prior and superior to any adverse right or claim of the undersigned;

2. Grants to the Government a lien upon all of the undersigned's right, title, and interest in the land and upon any production of minerals therefrom to secure the payment to the Government of a percentage royalty on production as may be provided for by the contract;2/ and represents and undertakes that there are no claims, liens, or encumbrances upon the undersigned's right, title, or interest in the land prior to that hereby granted to the Government other than the following:3/

None

3. Undertakes and agrees neither to commit any act nor assert any claim in conflict with the provisions of this Consent to Lien; and to give advance notice of the Government's rights under this Consent to Lien to any subsequent transferee, mortgagee, encumbrancer, or lessee of any of the undersigned's right, title, or interest in the land; and

1/ Either (a) insert the legal description of the land, or (b) strike out the words "as follows" and insert "in a lease [or contract, deed, or other document] dated _____, and recorded in book _____ page _____ official records of said county." If (b) is used, the book and page of recordation cannot be dispensed with. If the space provided is insufficient, use an Annex, and refer to the Annex in the space.

2/ Mining or production from the land is not required, and in the absence of production there is no obligation to repay the Government.

3/ Write "none" if that is the case. Do not leave lines blank.

4. Consents to all amendments and assignments of the contract without notice thereof, and agrees that this Consent to Lien shall extend and apply thereto.

5. Added provision: None

Dated this 7 day of SEPT, 1955

M. L. Russell Pres [Seal]

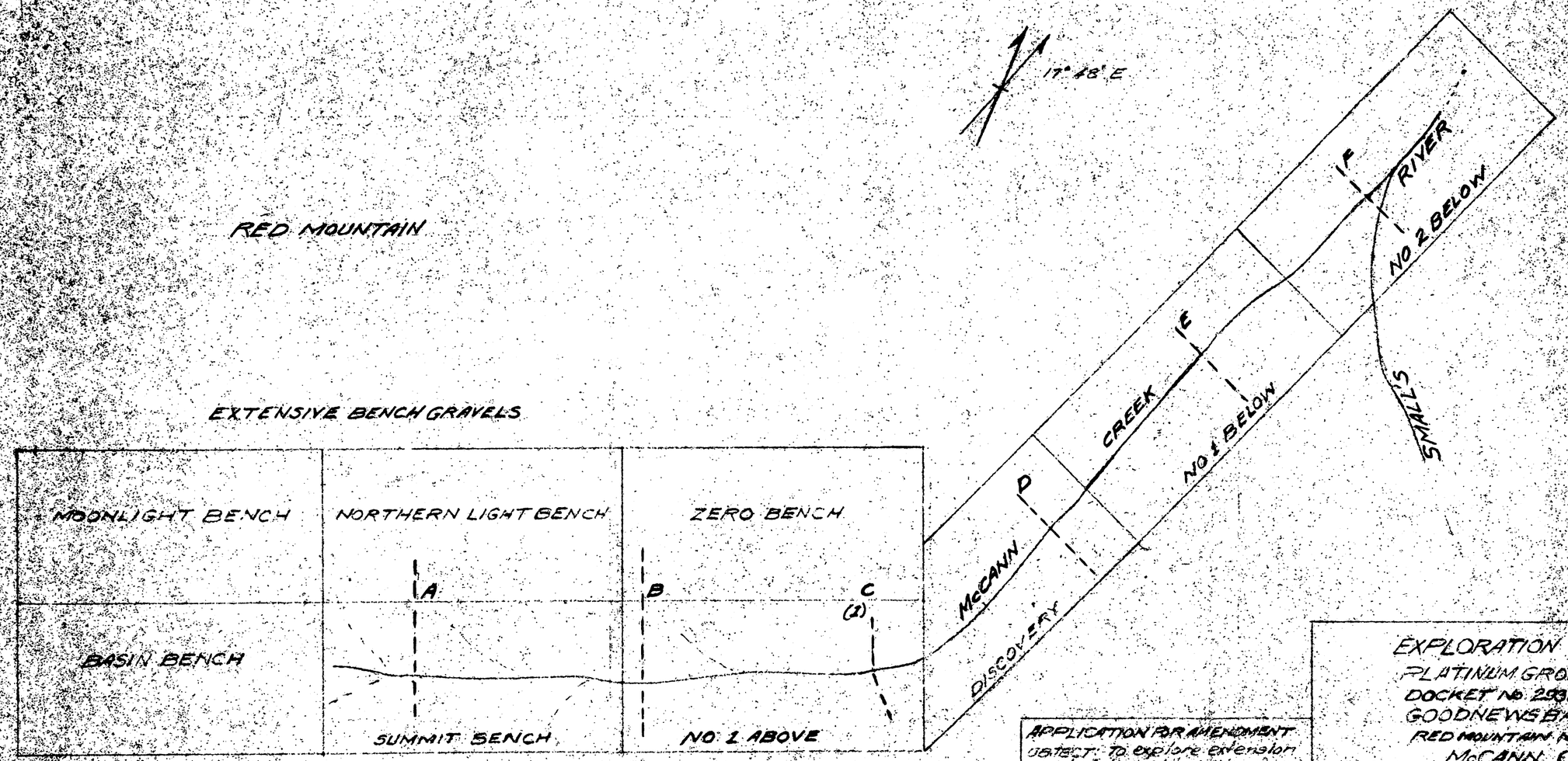
Chris Lewistad Treasurer [Seal]

[Seal]

I, Chris Lewistad certify that I am the Treasurer (Secretary, etc.) of the corporation named herein; that M. L. BISSELL who signed this agreement was then President (President or Vice-President, etc.) of said corporation; that said agreement was duly signed for and in behalf of said corporation by authority of its governing body, and was within the scope of its corporate powers.

Chris Lewistad

[Corporate Seal]



APPLICATION FOR AMENDMENT
subject: To explore extension and delimit width of pay-rock discovered on line 1 October 1954
Additional footage requested 1500

EXPLORATION PROJECT
PLATINUM GROUP METALS
DOCKET No. 2591 Idm-2319
GOODNEWS BAY MINING DIST.
RED MOUNTAIN MINING COMPANY
McCANN CREEK
SCALE 1" = 400' FEBRUARY 1955
F.L. HOWARD OPERATOR

FIGURE - 4

Government Copy

EXPLORATION PROJECT CONTRACT
A. L. HOWARD
DOCKET NO. DMEA-2931
CONTRACT NO. Idm-E579

AMENDMENT NO. 1

It is agreed this 24 day of April 1954, between the United States of America, acting through the Department of the Interior, Defense Minerals Exploration Administration, and A. L. Howard, each acting in consideration of the agreement of the other to the terms hereinafter set forth, that Exploration Project Contract Idm-E579, Docket No. DMEA-2931, dated August 10, 1953, between the parties hereto, be modified and amended as follows:

1. This amendment shall be effective November 1, 1953.

2. During the period from November 1, 1953 to May 1, 1954:
   (a) The project work shall be recessed;
   (b) The Government shall not contribute to any costs incurred by the Operator.

3. "Description of the Work" under "EXHIBIT A" shall be modified to permit the drilling of not to exceed 230 linear feet of churn drill hole on claim "No. 1 Above (McCann Creek)". The churn drilling shall be on McCann Creek above its confluence with Minnie Creek but below the prospect trenches on claim No. 1 Above; for the purpose of determining the existence of a pay channel on McCann Creek. The exact location of the holes shall be at the discretion of the Operator.

This amendment shall not be construed to increase the estimated total cost of the project, the aggregate total amount which the Government may be required to contribute, nor the "Agreed Unit Cost" as set forth in "EXHIBIT A" of the contract.

THE UNITED STATES OF AMERICA

A. L. HOWARD

By O M Stendorf
Administrator, Defense Minerals Exploration Administration

A. L. Howard

Docket No. DMEA-2931

Commodity Platinum Group Metals

DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

STRATEGIC AND CRITICAL MINERALS EXPLORATION PROGRAM

TO: Chief, Finance Section, Budget and Finance Branch, Bureau of Mines

Please enter on the records of the Defense Minerals Exploration Administration, under the Strategic and Critical Minerals Exploration Program, the following contract, or amendment to contract.

Contract No. Idm-E 579

Date of Contract or Amendment: August 10, 1953

Name and Address of Operator: Albert Leighton Howard
16351 Ashworth Avenue
Seattle 33, Washington

Amount of Government participation $ 10,800.00

Percent of Government participation 90 %

Region: I State: Alaska

Jay L. Chambers
(Name)

Chief, Contract Administration and Audit Division
(Title)

Date Delivered to Bureau of Mines, Washington. August 10, 1953

13908

MF-200 (A)
(February 1952)

DOCKET NO. DMEA 2931

COMMODITY Platinum Group Metals

Government's Copy

UNITED STATES OF AMERICA
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

Idm-E579

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
AUG 2 1953

EXPLORATION PROJECT CONTRACT[1]

(Short Form)

IT IS AGREED this 10th day of August, 1953, between the United States of America, acting through the Department of the Interior, Defense Minerals Exploration Administration, hereinafter called the "Government," and[2] Albert Leighton Howard
16351 Ashworth Avenue
Seattle 33, Washington

hereinafter called the "Operator," as follows: as set forth in Annex I

ARTICLE 1. *Authority for contract.*—This agreement is entered into under the authority of the Defense Production Act of 1950, as amended, pursuant to DMEA Order 1 entitled "Government Aid in Defense Exploration Projects."

ARTICLE 2. *Operator's property rights.*—With respect to that certain land situated in the ~~State~~ Territory of Alaska Goodnews Bay, ~~County~~ Fourth Judicial Division, described as follows:[3] Twenty-nine (29) unpatented placer mining claims situated on the eastern slopes of Red Mountain near Platinum, Goodnews Bay Mining District, Alaska, more fully described in the attachment to Owner's Consent to Lien and in Annex II, both attached hereto and made a part hereof

the Operator represents and undertakes:[4]

(*a*) ~~That the Operator is a lessee, in possession and entitled to possession, under the following claims or encumbrances, a copy of which the subordination agreement of the holder is attached:~~

(*b*) That the Operator is a lessee, in possession and entitled to possession, ~~under the following claims or encumbrances, a copy of which the subordination agreement of the holder is attached~~.

The Operator shall devote the land and all existing improvements, facilities, buildings, installations, and appurtenances to the purposes of the exploration project without any allowance for the use, rental value, depreciation, depletion, or other cost of acquiring, owning, or holding possession thereof.

ARTICLE 3. *Exploration project.*—The Operator, within 30 days from the date of this contract shall commence work on a project of exploration for[5] Platinum and Associated Platinum Group Metals (Placer)

in or upon the described land; and shall bring the project to completion within a period of 18 months from the date of this contract. The work to be performed is more fully described in Exhibit "A" attached hereto, which, with any maps or drawings thereto attached, are made a part of this contract. The Government will contribute to the cost of this work as hereafter provided. The work shall be performed by the Operator or by independent contractor or contractors efficiently, expertly, in a workmanlike manner, in accordance with good mining standards and State regulations for health and safety and for workmen's compensation and employers' liability insurance, with suitable and adequate equipment, materials, and labor, to bring the project to completion within the time fixed. The Government shall have the right to enter and observe and inspect the work at all reasonable times, and the Operator shall provide the Government with all available means for doing so. The Government may consult with and advise the Operator on all phases of the work.

ARTICLE 4. *Costs of the project.*—The agreed, estimated costs of performing the work, expressed in terms of units of work to be performed (per foot of drifting, per foot of drilling, per cubic yard of material to be moved, etc.) are set forth in Exhibit "A," attached hereto. The Government will pay 90 percent of these agreed, estimated costs, as they accrue, for units of work actually performed that conform with the description or specifications for the work set forth in this contract, in an aggregate total amount not in excess of $10,800.00, which is 90 percent of $12,000.00 the agreed, estimated total cost of the project in which the Government will participate: *Provided,* That until the Operator's final report and final accounting have been rendered to the Government and any final check or auditing required by the Government has been made, and a final settlement of the contract has been made, the Government may withhold from the last voucher or vouchers such sums as it sees fit not in excess of ten (10) percent of the maximum total which the Government might have been called upon to pay under the terms of the contract. The Government may, as it sees fit, make payments direct to the Operator's independent contractors, if any, for the account of the Operator, rather than to the Operator.

ARTICLE 5. *Reports, accounts, audits.*—(*a*) *Progress reports.* The Operator shall provide the Government with monthly reports of units of work performed under the contract, in quintuplicate (five copies), upon forms provided by the Government. These progress reports shall be certified by the Operator, and shall constitute both the Operator's invoice of units of work performed on the project during the period covered by the report and his voucher for repayment by the Government, unless the Government requires the use of a standard voucher form with invoice attached. Progress reports shall include surface and/or underground engineering-geological maps or sketches showing the progress of the exploration, with assay-reports on samples taken concurrently with the advance in mineralized ground.

[1] If sufficient space is not provided in any blank, use an extra sheet of paper and refer to it in the blank.
[2] State name, address, and nature of organization if any.
[3] Give legal description or enough to identify the property, particularly excluding any land or interest therein to which the Government's lien is not to attach or the production from which is not to be subject to the Government's percentage royalty.
[4] Strike out the provision not applicable.
[5] Name of mineral or minerals.

(*b*) *Final report.*—Upon completion of the exploration work or termination of the contract the Operator shall provide the Government with an adequate geological and engineering report, in quintuplicate (five copies), including an estimate of ore reserves resulting from the exploration work.

(*c*) *Compliance with requirements.*—If, in the opinion of the Government, any of the Operator's reports are insufficient or incomplete, the Government may procure the making or completion of such reports and attachments as an expense of the exploration work; and the Government may withhold approval and payment of any vouchers depending upon insufficient or incomplete reports.

(*d*) *Accounts and audits.*—The Operator shall keep suitable records and accounts of the units of work performed, which the Government may inspect and audit at any time. The Government may at any time require a check of the work performed and an audit of the Operator's records and accounts, by a certified public accountant or otherwise, the cost thereof to be treated as a cost of the project. The Operator shall keep and preserve said records and accounts for at least 3 years after the completion of the project or the termination of this contract. Upon the completion of the project or termination of the contract the Operator shall render a final account and statement of work performed to accompany his final report.

ARTICLE 6. *Repayment by Operator.*—(*a*) If, at any time, the Government considers that a discovery or a development from which production may be made has resulted from the exploration work, the Government, at any time not later than 6 months after the Operator has rendered the required final report and final account, may so certify in writing to the Operator. The certification shall describe broadly or indicate the nature of the discovery or development. In the event of such certification, any minerals mined or produced from the land described in Article 2 within 10 years from the date of this contract, including any mined or produced before the certification, shall be subject to a percentage royalty which the Operator or his successor in interest shall pay to the Government, upon the net smelter returns, the net concentrator returns, or other net amounts realized from the sale or other disposition of any such production, in whatever form disposed of, including ore, concentrates, or metal, until the total amount contributed by the Government, without interest, is fully repaid, or said 10 years have elapsed, whichever occurs first, as follows: See Annex I, substituted for that part of 6(a) preceding the colon.

(1) One and one-half (1½) percent of any such net amounts not in excess of eight dollars ($8.00) per ton.

(2) One and one-half (1½) percent of any such net amounts, plus one-half (½) percent of such net amounts for each additional full fifty cents ($0.50) by which such net amounts exceed eight dollars ($8.00) per ton, but not in excess of five (5) percent of such net amounts.

(For instance: The percentage royalty on a net amount of five dollars ($5.00) per ton, would be one and one-half (1½) percent; on a net amount of ten dollars ($10.00) per ton, three and one-half (3½) percent.)

(*b*) As here used, "net smelter returns," "net concentrator returns," and "other net amounts realized from the sale or other disposition," mean gross revenue from sales, or if not sold, the market value of the material after it is mined in the form in which and the place where it is held. In the case of integrated operations in which the material is not disposed of as such, these terms mean what is or would be the gross income from mining operations for percentage depletion purposes in income-tax determination.

(*c*) To secure the payment of its percentage royalty, the Government shall have and is hereby granted a lien upon the land described in Article 2 and upon any production of minerals therefrom, until the royalty claim is extinguished by lapse of time or is fully paid.

(*d*) This article is not to be construed as imposing any obligation on the Operator or the Operator's successor in interest to engage in any mining or production operations.

ARTICLE 7. *Assignment, transfer, or loss of Operator's interest.*—Without the written consent of the Government, the Operator shall not assign or otherwise transfer or hypothecate this contract or any rights thereunder. The Operator shall not make any voluntary nor permit any involuntary transfer or conveyance of the Operator's rights in the land described in Article 2, without making suitable provision for the preservation of the Government's right to a percentage royalty on production and lien for the payment thereof; *Provided*, that mere failure by the Operator to maintain the Operator's rights in the land, without any consideration running to the Operator other than relief from the cost of maintaining such rights (as by surrender of a leasehold, failure to perform assessment work, or failure to exercise an option), coupled with complete abandonment by the Operator of all interest in or operations on the land for a period of 10 years from the date of this contract, shall not constitute such a transfer or conveyance. Should the Operator make or permit any transfer or conveyance in violation of this provision, the Operator shall be and remain liable for payment to the Government of the same amounts, at the same times, as would have been paid under the terms of the percentage royalty on production. If for any reason the net smelter returns, net concentrator returns, or other net amounts realized from the sale or other disposition of such production are not available as a means of measuring the amount of the Operator's liability, the amount thereof shall be estimated as well as may be, and in the event of dispute as to such estimates, the determination thereof by the Administrator of Defense Minerals Exploration Administration or by his successor shall be final and binding upon the Operator.

ARTICLE 8. *Termination and completion.*—The Government may, at any time, by written notice to the Operator, terminate this contract: (*a*) If the Operator fails to provide his share of the money necessary to prosecute operations pursuant to the terms of the contract; (*b*) if the Operator, in the opinion of the Government, fails to prosecute operations pursuant to the terms of the contract; or (*c*) if, in the opinion of the Government, operations up to the time of the notice have not indicated the probability of making any worth while discovery and in the opinion of the Government further operations are not justified.

ARTICLE 9. *Changes and added provisions* Any property or interests in property which are contiguous to or in the vicinity of the property referred to in Article 2 of this Contract, owned or held by the Operator at the date of this Contract or acquired thereafter during the term of this Contract, shall be considered to be added to and included with the property referred to in said Article 2; and the Operator shall notify the Government in writing of any such property or interests in property.

Executed in sextuplicate the day and year first above written.

THE UNITED STATES OF AMERICA

By O. Mitchell Dry
Administrator, Defense Minerals Exploration Administration

~~XXXXXX~~

By Albert Leighton Howard
Albert Leighton Howard - Operator

I, , certify that I am the secretary of the corporation named as Operator herein; that , who signed this contract on behalf of the Operator, was then of said corporation; that said contract was duly signed for and in behalf of said corporation by authority of its governing body, and is within the scope of its corporate powers.

[CORPORATE SEAL]

U. S. GOVERNMENT PRINTING OFFICE 16—66329-1

EXPLORATION PROJECT CONTRACT
ALBERT LEIGHTON HOWARD
DOCKET NO. DMEA-2931

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
Received
FEB 2 1953

ANNEX I

The following provisions are in lieu of all of paragraph (a) of Article 6 which precedes the colon:

If the Government considers that a discovery or development from which production may be made has resulted from the exploration work, the Government, at any time not later than six months after a sufficient, complete, final report and final account referred to in the contract has been rendered, may so certify in writing to the Operator. Such certification shall describe broadly or indicate the nature of the discovery or development, The Operator, or his successor in interest, shall pay to the Government a royalty on all minerals mined or produced from the land described in Article 2, as follows: (1) Regardless of any certification of discovery or development, from the date of the contract until the lapse of the time within which the Government may make such certification of discovery or development, or until the total net amount contributed by the Government, without interest, is fully repaid, whichever occurs first, unless the Government waives its right to a royalty; or (2) if the Government makes a certification of discovery or development, for a period of ten years from the date of the contract, or until the total net amount contributed by the Government, without interest, is fully repaid, whichever occurs first. Said royalty shall be a percentage of the net smelter returns, the net concentrator returns, or other net amounts realized from the sale or other disposition of any such production (including any bonuses), in whatever form disposed of, including ore, concentrates, or metal, as follows:

EXPLORATION PROJECT CONTRACT
ALBERT LEIGHTON HOWARD
DOCKET NO. DMEA-2931

ANNEX II

NAMES OF CLAIMS AND KEY NUMBERS

1. Portland Bench
2. Three Star Bench
3. Discovery (Boulder Creek)
4. Brooklyn Bench
5. Hardluck Bench
6. First Tier - Seven above Bench
7. Oakland Bench
8. Osmiridium Bench
9. Frisco Bench
10. Benny Bench
11. Jenny Bench
12. Sugar Bench
13. Honey Bench
14. Surprise Bench
15. New York Bench
16. Boston Bench
17. Chicago Bench
18. Bessie Bench
19. Moonlight Bench
20. Basin Claim
21. Northern Light Bench
22. Summit Bench
23. Zero Bench
24. No. 1 Above (McCann Creek)
25. Punch Bowl
26. Minnie Gulch
27. Discovery (McCann Creek)
28. No. 1 Below
29. No. 2 Below (McCann Creek)

EXPLORATION PROJECT CONTRACT
ALBERT LEIGHTON HOWARD
DOCKET NO. DMEA-2931

EXHIBIT "A"

Description of the Work

The work will consist of churn drilling in the Portland Bench area and all the auxiliary operations necessary to explore and indicate the value of placer deposits of platinum group metals existing within the boundaries of the property more fully described in Article 2 of this contract and shown on the map attached hereto, made a part hereof, and entitled "Placer Platinum Claims - Red Mountain Mining Co. - Goodnews Bay District, Southwestern Alaska".

The work shall consist of a grid pattern of drill holes totaling 1,000 feet, with a minimum spacing of 50 feet, that will explore the bench gravel and also ascertain whether there is an older channel west of the Salmon River as shown on the aforesaid map.

In general, the churn drilling shall be done on lines located to cross the direction of flow of such present and/or ancient pay channels as may be indicated by surface topography or geological evidence.

Drilling shall be done with a standard type placer churn drill and tools capable of drilling holes not less than 4½ inches in diameter (uncased), and to a depth of not less than 100 feet. The drilling shall be done by experienced and reliable operators according to the best accepted practice for drilling either thawed or frozen ground, whichever may be encountered. All holes shall be drilled at least one (1) foot into bedrock or more if the bedrock horizon is uncertain.

The drillers shall keep accurate logs of a standard type for placer drilling, the logs to include such additional information as may be required by the Government. Four (4) copies of the log of each hole shall be forwarded to the DMEA Field Team, Region I, as soon as possible after the completion of each hole.

The indicated mining section of each hole shall be concentrated by capable panners and the platinum-group metals separated from the concentrate. Necessary samples shall be taken, and both the metal and the concentrate reject samples shall be properly dried, weighed, marked, and preserved. The samples shall be shipped for analyses and/or such further testing and checking to such laboratories and by such methods as shall be determined by mutual agreement between the Operator and the Field Team. Necessary assays shall be made but all assays shall be by ordinary accepted methods for determining combined platinum group metals except that one composite sample shall be separated into individual metals of the platinum group.

Surveys and engineering services shall be performed which are necessary to establish property lines, accurate controls for drilling and to permit full interpretation of the drilling results in terms of values and volume. These data shall be incorporated into the required comprehensive final report.

Agreed Unit Costs

1,000 feet churn drilling @ $12.00/ft. 1/	$12,000.00	
Total Agreed Unit Costs		$12,000.00
Government Participation @ 90%		$10,800.00

1/ This covers all costs of the project including equipment, repairs, supplies, and personnel (including freight and transportation) and all freight and assaying charges on such samples as may be necessary to establish the total value of heavy mineral concentrate.

MF-203
(Revised July 1, 1953)

OWNER'S CONSENT TO LIEN

DEPARTMENT OF THE INTERIOR
Bureau of Mines Administration
RECEIVED
JUL 28 1953

WHEREAS, the undersigned, as owner, co-owner, lessor, or seller has an interest in certain property in the ~~xxxxxxx~~ Territory of Alaska, ~~xxxxxxxxxxxxxxxxxxxx~~, described as follows:1/

Fourth Judicial Division
Bethel Recording District

Twenty Nine (29) unpatented placer mining claims situated on the eastern slopes of Red Mountain, near Platinum, Goodnews Bay Mining District, more fully described in attached sheets

which is the subject of a proposed exploration project contract, hereinafter called the "contract", between the United States of America, hereinafter called the "Government", and

2/ Albert Leighton Howard (Lessee)
16351 Ashworth Avenue
Seattle 33, Washington

hereinafter called the "Operator"; and

WHEREAS, under the provisions of said contract the Government is entitled to a percentage royalty on production (as set forth on the reverse side hereof) and to other rights and equities which do or may conflict with or be adverse to the rights of the undersigned:

NOW THEREFORE, the undersigned, in consideration of said contract and as an inducement to the Government to enter into same, undertakes and agrees as follows:

1. The Government's equity in and right to dismantle, sever, take possession of, and remove and dispose of facilities, buildings, fixtures, equipment, or other items as provided in the contract, or any amendment thereof, shall prevail over and be prior and superior to any conflicting or adverse rights of the undersigned, and the Government is authorized to enter upon the land for such purposes.

2. To secure the payment to the Government of the percentage royalty on production3/ provided for under the terms of said exploration project contract, or any amendment thereof, there is hereby granted to the Government a lien upon the land above referred to and upon any production of minerals therefrom, until said royalty is fully paid or ten years have elapsed from the date of the contract, whichever occurs first.

3. The undersigned shall commit no act nor assert any claim that may contravene or conflict with the lien, claim, or rights of the Government under the provisions of said contract. This agreement shall be binding upon the heirs, executors, administrators, successors, and assigns of the undersigned.

4. Changes and added provisions

Dated this 27 day of July, 1953, 195__.

M.L. Bissell, President RED MOUNTAIN MINING CO. INC.
by Fred H Bradt Acting President [Seal]
Fred H Bradt Sec. [Seal]
Christian Leinestad Treas. [Seal]

1/ Either (a) insert the legal description of the land, or (b) strike out the words "as follows" and insert "in a lease [or contract, deed, or other document] dated _____, and recorded in book _____ page _____ official records of said county." If (b) is used, the book and page of recordation cannot be dispensed with. If the space provided is insufficient, use an Annex, and refer to the Annex in the space.

2/ Insert the name of the Operator as it will appear in the exploration project contract.

3/ Mining or production from the land is not required, and in the absence of production there is no obligation to repay the Government.

RELEVANT CONTRACT PROVISIONS

Repayment by Operator.--a. Certification.--If at any time the Government considers that a discovery or development from which production may be made has resulted from the exploration work, the Government, at any time not later than six months after the Operator has rendered the final report and final account, may so certify in writing to the Operator. Such certification shall describe broadly or indicate the nature of the discovery or development.

b. Percentage royalty.--The Operator, or his successor in interest, shall pay to the Government a royalty on all minerals mined or produced from the land described in Article 2,--(1) regardless of any certification of discovery or development, from the date of the contract until the lapse of the time within which the Government may make such certification of discovery or development, or until the total net amount contributed by the Government, without interest, is fully repaid, whichever occurs first, unless the Government waives its right to a royalty; or (2) if the Government makes a certification of discovery or development, for a period of ten years (or other period fixed by the contract) from the date of the contract, or until the total net amount contributed by the Government, without interest, is fully repaid, whichever occurs first. Said royalty shall be a percentage of the net smelter returns, the net concentrator returns, or other net amounts realized from the sale or other disposition of any such production, in whatever form disposed of, including ore, concentrates, or metal; as follows:

(a) One and one-half ($1\frac{1}{2}$) per cent of any such net amounts not in excess of eight dollars ($8.00) per ton.

(b) One and one-half ($1\frac{1}{2}$) per cent of any such net amounts, plus one-half ($\frac{1}{2}$) per cent of such net amounts for each additional full fifty cents ($0.50) by which such net amounts exceed eight dollars ($8.00) per ton, but not in excess of five (5) per cent of such net amounts.

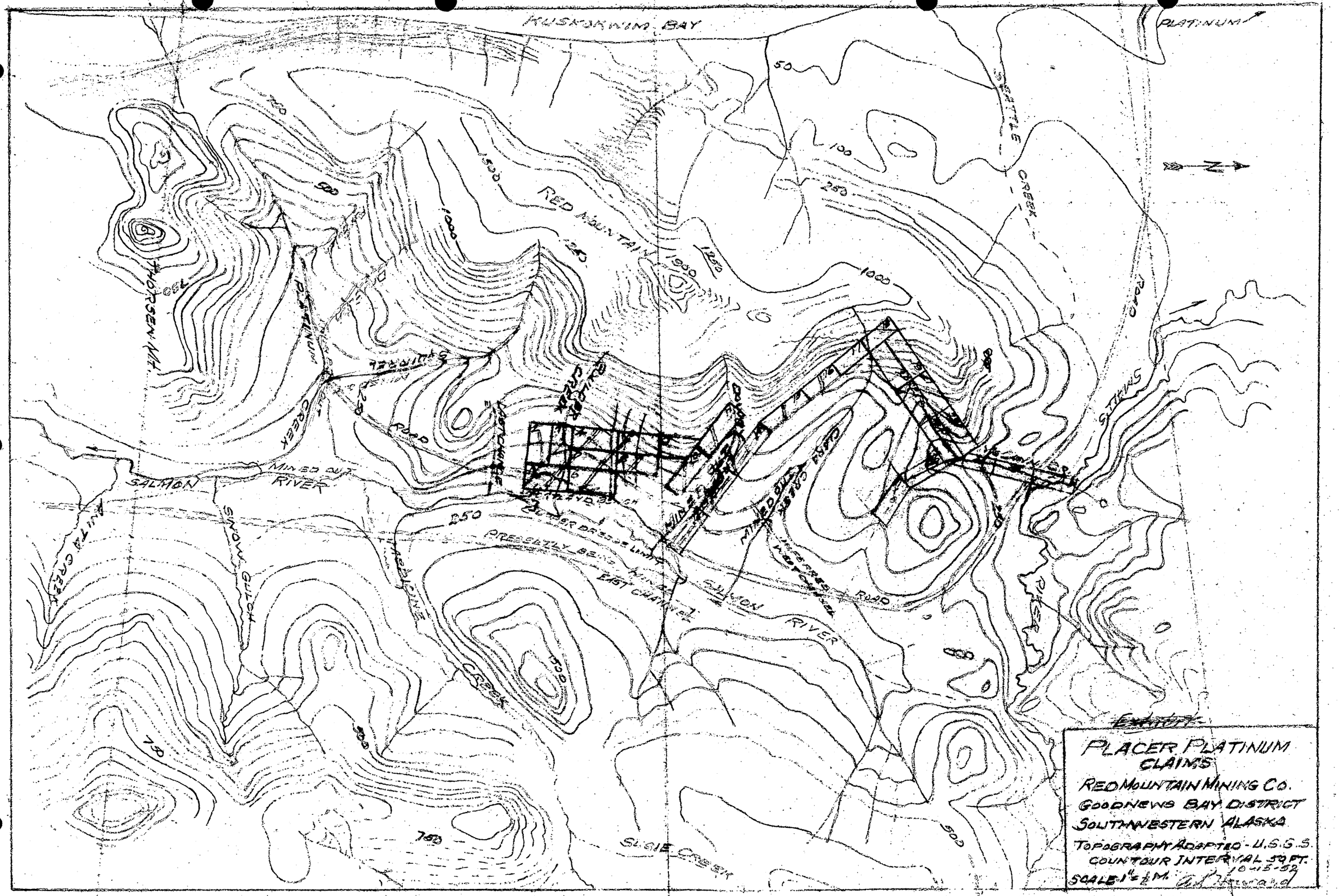
(For instance: the percentage royalty on a net amount of five dollars ($5.00) per ton, would be one and one-half ($1\frac{1}{2}$) per cent; on a net amount of ten dollars ($10.00) per ton, three and one-half ($3\frac{1}{2}$) per cent.)

c. Definitions.--As here used, "net smelter returns", "net concentrator returns", and "other net amounts realized from the sale or other disposition", mean gross revenue from sales; or if not sold, the market value of the material after it is mined in the form in which and the place where it is held. In the case of integrated operations in which the material is not disposed of as such, these terms mean what is or would be gross income from mining operations for percentage depletion purposes in income tax determination.

d. Lien for Payment.--To secure the payment of its percentage royalty, the Government shall have and is hereby granted a lien upon the land described in Article 2 and upon any production of minerals therefrom, until the royalty claim is extinguished by lapse of time or is fully paid.

e. Notice to Purchasers.--The Operator shall notify any purchaser of the production of the Government's royalty interest, and shall authorize and direct the purchaser to pay the royalty directly to the Government and to furnish the Government with copies of the settlement sheets; but failure or refusal by the purchaser to comply shall not relieve the Operator of liability to pay any royalty falling due.

f. No Obligation to Produce.--This article is not to be construed as imposing any obligation on the Operator or the Operator's successor in interest to engage in any mining or production operations.


KUSKOKWIM BAY
PLATINUM
SEATTLE
CREEK
RED MOUNTAIN
SALMON
RIVER
MINED OUT
SNOW
GULCH
SUSIE CREEK
PRESENTLY BEING MINED
EAST CHANNEL
SALMON
RIVER
MINED OUT
CREEK
ROAD
PLACER PLATINUM
CLAIMS
RED MOUNTAIN MINING CO.
GOODNEWS BAY DISTRICT
SOUTHWESTERN ALASKA
TOPOGRAPHY ADAPTED - U.S.G.S.
COUNTOUR INTERVAL 50 FT.
SCALE 1" = ¼ M.
10-15-52

dmea 2931