OFFICE OF MINERALS EXPLORATION
CONTRACT ADMINISTRATION AND AUDIT DIVISION

REPORT OF ROYALTY REVIEW

I have reviewed the files of the Washington office pertaining to Contract Idm-8457, Docket DMEA-2512 (corundum-andalusite), dated December 5, 1952, with

Coranda Corporation
386 Race Street
San Jose, California

for the purpose of determining the amount of royalty payable to the U. S. Government on sales of minerals from property referred to as the Green Talc and Bismark Mines located in Mineral County, Nevada, during the period January 1, 1959, through June 1, 1962.

A certification of discovery or development was issued on April 23, 1954, and, in accordance with Article 6 of the contract, royalty is payable on all minerals produced from the land described in Article 2 of the contract for a period of 10 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. A Report of Review dated November 18, 1955, indicated accepted costs under the exploration contract amounting to $36,000.00 with the Government's contribution on a 90 percent basis being $32,400.00.

The status of the project, the scope of review, and the reasons therefor are stated on page 2.

This review established no sales subject to the Government's royalty subsequent to the period covered by a prior Report of Royalty Review which also found no sales subject to the Government's royalty through December 31, 1958. The royalty account as of December 31, 1958, was:

Total Royalty Payable	$ -0-
Total Royalty Paid	-0-
Balance of Royalty Due	$ -0-

As of June 1, 1962, the royalty account of this project was found to be:

Total Royalty Payable	$ -0-
Total Royalty Paid	-0-
Balance of Royalty Due	$ -0-

E. D. Talbert

E. D. Talbert, OMS Auditor

June 13, 1962

STATUS OF PROJECT, SCOPE OF REVIEW
AND REASONS THEREFOR

This contract provides that the Operator or his successor in interest shall pay to the Government a percentage royalty on any mineral production from the land thereunder. At the time this contract was executed the Operator was in possession by virtue of an April 28, 1952, operating agreement with six lessees of the property, all of whom were officers or directors of the Operator.

The property consists of two groups of unpatented lode mining claims in the Gillis Range Mining District. The Green Talc Group of 7 claims, located in secs. 22,23, 26, and 27, T. 9 N., R. 31 E., M.D.B. & M., was owned by Esther Rea and John Vuich. The Bismark Group of 2 claims, located in secs. 31 and 32, T. 9 N., R. 32 E., M.D.B. & M., was owned by Esther Rea, Joe Malatesta, Eugene Ferretti, and John Vuich. The landowners on April 24, 1952, executed Owner's Consents to Lien, which grant to the Government liens on the mineral deposits and production therefrom "upon the terms and conditions set forth in said Contract". The contract contains the so-called "abandonment" provision.

Work under the contract was started in January 1953 and completed during October 1953. No minerals were produced during the exploration period. Subsequent examinations of the property and inquiries by field representatives disclosed no activity through December 31, 1957.

A letter dated July 19, 1956, from one of the landowners, Esther Rea, includes the advice that the Coranda Corporation defaulted under their lease of January 1, 1952, and the property had reverted to the owners. In a June 1, 1962, reply to a MME Form 63 inquiry, J. H. Rodda, 347 South Bascom, San Jose, California, stated that "as far as I know" the property is in the lands of the owners and there has been no production since December 31, 1957. Mr. Rodda was the Operator's president at the time the exploration project contract was executed.

This review was made in lieu of an on-site audit of the Operator's accounts and records for the following reasons:

(1) The files contain no evidence of any production from the property under the contract during the period covered by this review; and
(2) The administrative cost to the Government of an on-site royalty audit at this time would be excessive in relation to the amount of possible royalty which might be disclosed.

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION
555 Battery Street
San Francisco 11, California

June 18, 1962

DATE	INITIALS

Memorandum

To: Fiscal Section, Division of Administrative Services, Office of the Secretary, Department of the Interior, Washington, D. C.

From: Acting Field Officer, OME, Region II

Subject: DMEA-2512 (Corundum-Andalusite)
Coranda Corporation
Green Talc and Bismark Mines
Mineral County, Nevada
Contract Idm-E 457

Enclosed is the original of a Report of Royalty Review covering the subject contract.

This office concurs in the facts as stated in the Report of Royalty Review.

PAUL V. FILLO

Paul V. Fillo

Enclosure

cc:
Chief, Division of Field Operations, OME, Washington, D. C.
Contract Administration & Audit Div., Washington, D. C.
PVFillo:kmb 6-18-62

JUN 13 1962

Memorandum

To: Acting Field Officer, Region II

From: E. D. Talbert, Acting Chief (Signed) E. D. Talbert
Contract Administration and Audit Division

Subject: DMEA-2512 (Corundum-Andalusite)
Coranda Corporation
Green Talc and Bismark Mines
Mineral County, Nevada
Contract Ida-2437

The original and one copy of a Report of Royalty Review covering the subject contract are enclosed. If you concur in the facts stated therein, please make the following distribution:

(a) Original to the Fiscal Section, Division of Administrative Services, Office of the Secretary, Department of the Interior, Washington 25, D. C.; and

(b) One copy for your files.

This Report of Royalty Review is made for record purposes only; therefore, no copy for the Operator is provided.

As evidence of your concurrence, a copy of your memorandum transmitting the original report to the Fiscal Section should be furnished this Division. If for any reason you do not concur, both copies of the report should be returned to this Division with your comments.

Enclosures

EDTalbert/ama 6-13-62

cc:
Docket
Director's Reading File
CA & A Division
Mr. Rothrock

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION

555 Battery Street
San Francisco 11, California

RECEIVED O. M. E.

March 27, 1962

800

Memorandum

To: E. D. Talbert, Acting Chief, Contract Administration and Audit Division, OME, Washington, D. C.

From: Acting Field Officer, OME, Region II

Subject: DMEA-2512 (Corundum-Andalusite)
Coranda Corporation
Green Talc and Bismark Mines
Mineral County, Nevada
Contract Idm-E457

In pursuant to your request of March 14, 1962, our files disclose no futher examinations or activity of the subject contract.

PAUL V. FILLO

Paul V. Fillo

Memorandum

To: Acting Field Officer, Region II

From: Acting Chief, Contract Administration & Audit Division (Signed) E. D. Talbert

Subject: DMEA-2512 (Corundum-Andalusite)
Coranda Corporation
Green Talc and Bismark Mines
Mineral County, Nevada
Contract Idm-E457

The files of the Washington office pertaining to the subject contract indicate that the last examination of the property was on December 31, 1957. Please advise as to whether the regional files disclose later examinations and, if so, the dates thereof and the findings.

A letter dated July 17, 1956, from Esther Rea, one of the owners of the property, includes the statement that "The Coranda Corporation defaulted under their lease of January 1, 1952, and the above-named four andalusite properties have now reverted to the owners". Do your files disclose any subsequent lease or transfer of the property?

I assume that the property under the contract has remained inactive since completion of the exploration work in October 1953. If your files indicate otherwise, your comments will be appreciated.

EDTalbert/cac
March 14, 1962

cc: Director's reading file
CA&A

OFFICE OF MINERALS EXPLORATION
CONTRACT ADMINISTRATION AND AUDIT DIVISION

MAY 20 1959
O.M.E.

REPORT OF ROYALTY REVIEW

I have reviewed the files and records of the OME Field Team, Region II, pertaining to Contract No. Idm-E457, Docket No. DMEA-5512 (Corundum-Andalusite), dated December 5, 1952, including Amendment Nos. 1 and 2, with

Coranda Corporation
386 Race Street
San Jose, California

for the purpose of determining the amount of royalties due the U. S. Government on sales of corundum-andalusite ore, from property known as the Green Talc Mine and Bismark Mine, located in Mineral County, Nevada, during the period December 5, 1952 to December 31, 1958.

A certification of discovery or development was issued on April 23, 1954 and accordingly royalty is payable on all production from the land described in Article 2 and Annex I of the contract, for a maximum period of 10 years from the date of contract. A Report of Review in lieu of final cost audit dated November 18, 1953, indicated acceptable costs under the exploration contract amounted to $36,000.00 with the Government's contribution on a 90 percent basis, being $32,400.00.

No royalties have been paid to date in connection with this contract.

This review was made in lieu of an on-site audit of the Operator's accounts and records for the following reasons:

(a) According to the Field Team's Semi-Annual Report of Certified Projects for the period July 1, 1958 to December 31, 1958, there was no production from the property during the period covered by this review.

(b) The administrative cost to the Government of an on-site royalty audit at this time would be excessive in relation to the amount of possible royalty which might be disclosed.

May 18, 1959

George Mavor, OME Auditor

MAY 21 1959

Memorandum

To: Mr. George Mayor, OME Auditor

From: E. D. Talbert, Acting Chief (Signed) E. D. Talbert
Contract Administration and Audit Division

Subject: Docket No. DMEA-2512 (Corundum-Andalusite)
Coranda Corporation
Contract No. Idm-E457

In the copies of your Report of Royalty Review of the subject contract, the following words in reason (a):

"the exploration project has been inactive since the completion of the DMEA contract"

have been replaced with:

"there was no production from the property during the period covered by this review."

Distribution of the regional copies is authorized after this revision has been made.

EDTalbert/ama
May 20, 1959

Copy to: Docket
Director's Reading File
CA & A Division

REPORT
OF REVIEW

DEFENSE MINERALS EXPLORATION ADMINISTRATION
CONTRACT ADMINISTRATION AND AUDIT DIVISION

REPORT OF REVIEW

Department of State
Defense Minerals Administration
RECEIVED
NOV 23 1953

I have reviewed the Monthly Reports of

Coranda Corporation, a corporation
duly organized and existing under
and by virtue of the laws of the
State of Nevada
386 Race Street
San Jose, California

pertaining to Exploration Project Contract No. Idm-E457, Docket No. DMEA-2512, including Amendments No. 1 and No. 2, for the period January 7, 1953, to October 31, 1953, covering a project of exploration for corundum and andalusite, located in Mineral County, Nevada, commonly known as the Green Talc Mine and Bismark Mine.

My review included an examination of the Monthly Reports (Form MF-104) and supporting documents attached thereto, comparison of the costs claimed with the contract and pertinent schedules, consultation with Executive Officer in charge of the project, 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:

The contract provides for payment by the Government on the basis of agreed costs of units of 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	$36,000.00
Exceptions	None
Total Accepted cost	$36,000.00

The contract calls for a 90 per cent participation of exploration expenses by the United States Government. Therefore, payment to the contractor by the Government in the amount of Thirty-Two Thousand Four Hundred and no/100 Dollars

- $32,400.00 -

is considered valid and proper.

George Mayer
George Mayer
Auditor

November 18, 1953

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

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

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

Month of October, 1953 Docket No. DMEA 2512 Contract No. D-427
Operator's Name Corrada Corporation Minerals Manganese
Address 306 Rice St., San Juan, P.R. P.O. Box [illegible]
Contract Amount, $ 36,000.00 Government Participation: 50 % Amount, $ 36,000.00

ITEMS OF COSTS	FOR CONTRACTOR OPERATOR'S USE: Monthly Total	Totals Previously Reported	Totals To Date	FOR GOVERNMENT USE ONLY: Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Contracts:						
Drilling		23,750.00	23,750.00			
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			7,250.00			
Sampling and Analysis	2775.00	4475.00	~~36,000.00~~			
Payroll Taxes						
Liability Insurance						
(8) Contingencies (specify):						
TOTALS	2775.00	4475.00	30,000.00			

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

Date Nov. 1, 1953 *Payee Corrada Corporation

Per J. H. Rodela Title President

*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:

$ 2497.50

Signature _____ (Authorized Certifying Officer)

Date NOV 24 1953 Vou. No. SF-DMEA-25

(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-E457 in accordance with the terms of the contract.

Signature A. C. Johnson Title Chief, Mining Div., Region III Date Nov. 10, 1953.

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature H. C. Miller Title Executive Officer DMEA Field Team Region III Date November 12, 1953

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-R1151.1
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 1952 Docket No. DMEA [illegible] Contract No. [illegible]
Operator's Name [illegible] Minerals [illegible]
Address [illegible] San Jose, Calif. [illegible]

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								
Shaft								
Winzes								
Drilling: Core				[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Churn								
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails	1	[illegible]	50	[illegible]	50	[illegible]	50	[illegible]
Building & Analysis	1	[illegible]	71	[illegible]	250	[illegible]	250	[illegible]
		[illegible]		[illegible]				TOTAL COSTS AUTHORIZED BY CONTRACT
TOTAL DISTRIBUTED COSTS								
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS								

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. 1, 1952 Operator Corona Corporation

Per J. H. Roddu Title President

REMARKS:

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)

(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

Nov. 1, 1953

Attachment to Report 104 and 104A
Contract No. IBM-M457
Docket No. 2512

71 Chemical analyses of drill cores were performed during the month of October. 50 P.C.E. tests on 50 composite samples, representing the ore bearing areas, were also performed which completes the physical and chemical testing work contracted for.

In that no provisions were made under the original contract for concentration of drill core samples and analyses of the concentrates, the P.C.E. tests were run on an as is basis on composited and single samples. Several concentrates of Bismark ore were made and P.C.E. tests were performed on them which are given in this report.

The final report of findings on this project has been completed and is being turned in under separate cover along with this report.

PITTSBURGH TESTING LABORATORY

ESTABLISHED 1881

PITTSBURGH, PA.

AS A MUTUAL PROTECTION TO CLIENTS, THE PUBLIC AND OURSELVES, ALL REPORTS ARE SUBMITTED AS THE CONFIDENTIAL PROPERTY OF CLIENTS, AND AUTHORIZATION FOR PUBLICATION OF STATEMENTS, CONCLUSIONS OR EXTRACTS FROM OR REGARDING OUR REPORTS IS RESERVED PENDING OUR WRITTEN APPROVAL.

ORDER No. SF 657

LABORATORY No.

651 Howard St. San Francisco

CLIENT'S No.

FILE No.

REPORT

October 16,1953

Corania Corporation
386 Race Street
San Jose, California.
Attention: Mr. J.H. Rodda, President

Subject: Analysis of Sillimanite Minerals

Sample Number	SiO_2	Al_2O_3	Fe_2O_3	TiO_2	CaO	MgO	Na_2O	K_2O	MnO	Ignition Loss
B1-1	66.70%	8.50%	12.50%	0.85%	3.85%	1.21%	0.12%	1.63%	0.07%	3.35%
B-2-1	61.80	20.60	9.30	0.96	0.30	0.89	0.15	2.60	0.07	1.80
B-3-1	59.22	21.25	9.20	0.91	0.20	0.71	0.33	4.40	0.02	2.42
B 4-1	61.66	24.85	3.95	0.60	0.16	0.08	0.39	4.40	0.01	2.49
B 6-1	69.86	22.55	3.35	0.64	0.07	0.03	0.18	1.22	Trace	0.99
B 7-1	70.80	23.50	2.00	0.93	0.03	0.02	0.12	0.86	Trace	1.01
B 9-1	67.22	29.55	0.79	0.92	0.02	0.02	0.05	0.15	Trace	0.97
B15-1A	55.62	35.20	0.42	1.87	0.08	0.03	0.13	0.94	Trace	4.52
B16-1	73.84	15.95	2.62	0.77	0.25	0.51	0.77	2.90	0.03	0.54
B17-1	68.28	20.90	3.25	0.23	1.25	0.68	2.55	3.45	0.15	0.52
B19-1	67.56	21.85	1.98	0.97	0.15	0.12	0.35	5.25	Trace	1.94
B21-1	67.20	24.30	3.45	0.80	0.05	0.01	0.09	0.67	Trace	1.77
B22-1	67.02	25.10	4.20	1.10	0.06	0.03	0.17	1.55	Trace	1.81
B23-1	51.42	19.45	11.90	0.91	0.35	0.78	0.30	4.10	0.05	2.29
B 9-3	62.68	22.65	6.30	0.85	0.07	0.37	0.31	4.45	0.03	1.41
B 10-3	58.36	20.85	11.20	0.88	0.29	0.36	0.38	5.30	0.04	1.48
B 12-3	57.62	18.45	12.20	0.88	0.33	2.65	0.22	3.15	0.08	2.84
B 14-3	61.26	20.80	6.90	1.12	0.28	1.18	0.26	4.90	0.12	1.63
B 15-3	57.16	19.30	9.75	0.85	4.90	2.40	0.19	2.95	0.28	1.68
B 16-3	66.34	17.80	6.30	0.61	3.45	1.43	0.69	2.80	0.21	1.31
B-18-3	71.90	13.85	2.57	0.32	2.05	0.62	0.75	3.25	0.09	2.73
B-19-3	71.46	14.25	2.57	0.58	1.70	0.59	0.53	2.95	0.08	4.09
B-20-3	62.20	25.25	3.90	1.32	0.37	0.69	0.26	2.15	0.02	2.69
B-21-3	49.68	17.05	10.40	1.40	8.10	2.10	3.05	2.18	0.11	7.58
B1-4	68.72	25.65	1.48	0.97	0.06	0.05	0.06	0.60	Trace	1.06
B2-4	67.64	25.95	1.12	0.89	0.06	0.04	0.07	0.81	Trace	1.78
B4-4	70.62	23.85	1.72	1.00	0.04	0.06	0.08	0.74	Trace	1.50
B5-4	68.62	22.70	4.80	1.15	0.06	0.04	0.10	1.03	0.02	1.71
B6-4	71.68	20.65	2.95	0.82	0.04	0.08	0.15	1.75	0.01	2.03
B7-4	55.36	17.95	15.60	0.97	0.47	2.25	0.20	2.65	0.20	2.38
B9-4	61.32	21.80	5.30	0.94	0.22	0.48	0.31	4.85	0.01	3.66
B-10-4	64.22	21.65	3.35	0.86	0.32	0.13	0.31	4.85	Trace	3.60
B11-4	71.18	15.35	4.75	0.40	1.70	0.81	2.75	2.55	0.13	1.51

FORM 407

PITTSBURGH TESTING LABORATORY

ESTABLISHED 1881

PITTSBURGH, PA.

AS A MUTUAL PROTECTION TO CLIENTS, THE PUBLIC AND OURSELVES, ALL REPORTS ARE SUBMITTED AS THE CONFIDENTIAL PROPERTY OF CLIENTS, AND AUTHORIZATION FOR PUBLICATION OF STATEMENTS, CONCLUSIONS OR EXTRACTS FROM OR REGARDING OUR REPORTS IS RESERVED PENDING OUR WRITTEN APPROVAL.

Received
Oct 30 1953

ORDER No. SF 657

LABORATORY No.

651 Howard St. San Francisco

CLIENT'S No.

FILE No.

REPORT

October 16,1953

Coranda Corpor tion
386 Race Street
San Jose, California.
Attention: Mr. J.H. Rodda, President

Sample Number	SiO_2	Al_2O_3	Fe_2O_3	TiO_2	CaO	MgO	Na_2O	K_2O	MnO	Ignition Loss
B12-4	72.50%	13.95%	2.85%	0.16%	2.05%	0.72%	2.60%	2.20%	0.12%	0.83%
B13-4	71.74	13.10	3.45	0.16	3.55	0.73	2.65	2.38	0.18	0.47
B14-4	61.04	15.40	8.40	0.83	5.95	1.85	1.73	2.37	0.30	0.81
B15-4	67.12	12.75	6.75	0.45	5.00	1.37	3.30	1.75	0.25	0.57
B16-4	66.66	16.35	4.15	0.45	4.65	1.18	2.50	2.15	0.24	0.34
B18-4	67.00	14.95	8.60	1.06	0.59	0.95	0.32	3.50	0.03	2.19
B19-4	54.56	14.05	17.00	1.08	0.85	4.25	0.26	2.55	0.27	4.41
B20-4	53.96	13.20	16.50	1.22	0.83	4.30	0.31	3.10	0.26	3.83
B21-4	51.52	15.50	17.90	1.11	0.45	4.55	0.17	2.15	0.25	4.66
B23-4	54.16	16.70	15.95	1.08	1.11	4.35	0.20	2.40	0.29	1.87
B24-4	51.90	16.50	18.50	1.12	1.50	4.75	0.22	1.75	0.33	2.28
B26-4	55.86	17.20	13.30	0.84	1.21	4.75	0.16	1.95	0.32	2.46
B11-5	93.74	4.25	0.72	1.32	0.01	0.04	0.07	0.68	Trace	0.70
B12-5	74.14	21.25	0.35	1.70	0.01	0.02	0.05	0.46	Trace	0.68
B13-5	80.66	13.80	0.49	1.85	0.01	0.03	0.07	0.68	Trace	0.66
B14-5	76.86	21.60	0.57	0.98	0.01	0.02	0.07	0.74	Trace	0.90
B16-5	63.96	22.50	9.40	1.52	0.02	0.05	0.15	1.02	Trace	1.07
B17-5	61.16	32.95	1.13	1.07	0.01	0.02	0.09	0.88	Trace	1.09
B18-5	80.44	15.05	0.82	1.10	0.01	0.02	0.01	0.29	Trace	0.63
B19-5	84.22	13.55	0.47	1.10	0.01	0.02	0.06	0.72	Trace	1.19
B20-5	70.34	20.95	0.73	0.83	0.01	0.01	0.17	2.30	Trace	2.74
B22-5	81.80	8.40	2.65	0.83	0.01	0.25	0.14	2.50	Trace	2.40
B23-5	69.94	12.30	6.90	1.03	0.02	0.75	0.23	4.20	0.02	2.70
22-6	62.42	26.90	5.05	0.74	0.13	0.05	0.35	1.19	Trace	1.59
23-6	54.98	25.65	8.10	0.89	0.21	0.04	0.74	3.85	Trace	3.80
24-6	59.58	23.75	4.90	0.42	0.44	0.69	0.98	4.45	0.05	3.10
25-6	63.30	18.10	6.75	0.64	2.65	1.11	3.25	1.20	0.22	2.06
26-6	64.40	18.85	7.10	0.70	0.34	0.80	0.61	2.62	0.10	2.80
12-7	57.42	23.95	8.50	0.83	0.22	0.19	0.50	4.40	Trace	2.73
13-7	53.12	26.15	9.70	0.90	0.37	0.33	0.74	6.80	Trace	3.22
14-7	63.10	20.30	11.22	0.90	0.15	0.53	0.30	2.90	Trace	2.32

FORM 407

PITTSBURGH TESTING LABORATORY

ESTABLISHED 1881

PITTSBURGH, PA.

AS A MUTUAL PROTECTION TO CLIENTS, THE PUBLIC AND OURSELVES, ALL REPORTS ARE SUBMITTED AS THE CONFIDENTIAL PROPERTY OF CLIENTS, AND AUTHORIZATION FOR PUBLICATION OF STATEMENTS, CONCLUSIONS OR EXTRACTS FROM OR REGARDING OUR REPORTS IS RESERVED PENDING OUR WRITTEN APPROVAL.

ORDER No. SF 657 691 Howard St., San Francisco LABORATORY No.

CLIENT'S No. FILE No.

REPORT

October 16,1953 Page 3

Coranda Corporation
386 Race Street
San Jose , California.
Attention: Mr. J.H. Rodda, President

Sample Number	SiO_2	Al_2O_3	Fe_2O_3	TiO_2	CaO	MgO	Na_2O	K_2O	MnO	Ignition Loss
16-7	56.46%	21.05%	14.50%	0.92%	0.47%	1.21%	0.33%	3.05%	0.04%	3.82%
18-7	59.04	26.80	4.25	0.53	0.09	0.46	0.67	6.10	Trace	3.90
21-7	62.12	24.60	5.20	0.74	0.17	0.47	0.63	4.45	0.02	3.13
24-7	57.10	19.45	16.25	1.02	0.51	0.74	0.39	3.45	0.02	2.52
25-7	53.00	24.10	13.70	0.98	0.49	0.36	0.64	4.30	0.01	2.70
26-7	52.02	23.40	14.50	1.07	0.78	0.23	0.73	5.65	0.01	3.08
27-7	43.32	33.40	7.70	0.54	0.48	0.18	1.15	9.30	Trace	2.10

Respectfully submitted,

PITTSBURGH TESTING LABORATORY

Parker M. Robinson
District Manager

SS
wh
cc: 16 Above

FORM 407

PITTSBURGH TESTING LABORATORY

ESTABLISHED 1881

PITTSBURGH, PA.

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ORDER No. SF 657 651 Howard St. San Francisco LABORATORY No.

CLIENT'S No. FILE No.

REPORT
October 23,1953

Coranda Corporation
386 Race Street
San Jose, California.

Attention: Mr. J.H. Rodda, President

Subject: Pyrometric Cone Equivalents

Composite Number	Sample Numbers	P.C.E No.	Composite Number	Sample Numbers	P.C.E No.
1-1-Comp.	1-1 2-1 3-1 4-1 5-1	16	4-2-Comp.	35-2 36-2 37-2 38-2 39-2	20
2-1-Comp.	6-1 7-1 8-1 9-1 10-1	17	1-3-Comp.	1-3 2-3 3-3 4-3	19
3-1-Comp.	11-1 12-1 15-1 16-1	18	2-3-Comp.	14-3 15-3 16-3 17-3 18-3	17
4-1-Comp.	17-1 18-1 19-1 20-1	18	1-4-Comp.	2-4 3-4 4-4 5-4	18
1-2-Comp.	10-2 11-2 18-2 19-2	16	2-4-Comp.	18-4 19-4 20-4 21-4	20
2-2-Comp.	20-2 21-2 24-2 26-2	19	1-5-Comp.	1-5 3-5 4-5 5-5	28
3-2-Comp.	27-2 31-2 33-2 34-2	20	2-5-Comp.	5-5-A 5-5-B 5-5-C 5-5-D 5-5-E 5-5-F	29

FORM 407

PITTSBURGH TESTING LABORATORY

ESTABLISHED 1881

PITTSBURGH, PA.

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ORDER No. SF 657

651 Howard ST. San Francisco

LABORATORY No.

CLIENT'S No.

FILE No.

REPORT

October 23,1953

Coranda Corporation
386 Race Street
San Jose, California.

Attention:Mr.J.H. Rodda,President

Composite Number	Sample Numbers	P.C.E No.	Composite Number	Sample Numbers	P.C.E No.
3-5-Comp.	7-5 8-5 9-5 10-5 11-5	19	3-6-Comp.	11-6 12-6 13-6 14-6 15-6	28
4-5-Comp.	13-5 14-5 21-5 22-5	20	4-6-Comp.	16-6 17-6 18-6 19-6	31
5-5-Comp.	23-5 24-5 25-5 26-5 27-5	18	5-6-Comp.	20-6 21-6 27-6 28-6	20
6-5-Comp.	28-5 29-5 30-5 31-5 32-5	19	1-7-Comp.	6-7 7-7 8-7 9-7 10-7	15
1-6-Comp.	2-6 3-6 4-6 4-6-A 5-6	23	2-7-Comp.	11-7 12-7 13-7 14-7 15-7 16-7	15
2-6-Comp.	6-6 7-6 8-6 9-6 10-6	20	3-7-Comp.	17-7 18-7 21-7 22-7 23-7	19

FORM 407

PITTSBURGH TESTING LABORATORY

ESTABLISHED 1881

PITTSBURGH, PA.

AS A MUTUAL PROTECTION TO CLIENTS, THE PUBLIC AND OURSELVES, ALL REPORTS ARE SUBMITTED AS THE CONFIDENTIAL PROPERTY OF CLIENTS, AND AUTHORIZATION FOR PUBLICATION OF STATEMENTS, CONCLUSIONS OR EXTRACTS FROM OR REGARDING OUR REPORTS IS RESERVED PENDING OUR WRITTEN APPROVAL.

ORDER No. SF657

651 Howard St. San Francisco

LABORATORY No.

CLIENT'S No.

FILE No.

REPORT

October 23,1953

Coranda Corporation
386 Race Street
San Jose, California.

Attention:Mr. J.H. Rodda,President

Composite Number	Sample Numbers	P.C.E. No.	Composite Number	Sample Numbers	P.C.E No.
4-7-Comp.	24-7 25-7 26-7 27-7 28-7	17	2-2-Comp.-B	B-15-2 B-16-2 B-17-2 B-18-2	20
1-1-Comp.-B	B-1-1 B-2-1 B-3-1 B-4-1	15	3-2-Comp.-B	B-19-2 B-20-2 B-21-2 B-22-2	19
2-1-Comp.-B	B-5-1 B-6-1 B-7-1 B-8-1	15	1-3-Comp.-B	B-8-3 B-9-3 B-10-3 B-11-3	16
3-1-Comp,-B	B-9-1 B-11-1 B-13-1 B-15-1	23	2-3-Comp.-B	B-12-3 B-13-3 B-14-3 B-15-3	18
4-1-Comp.-B	B-16-1 B-17-1 B-18-1 B-19-1	16	3-3-Comp.-B	B-16-3 B-17-3 B-18-3 B-19-3	16
5-1-Comp.-B	B-20-1 B-21-1 B-22-1	17	1-4-Comp.-B	B-1-4 B-2-4 B-3-4 B-4-4 B-5-4	18
1-2-Comp.-B	B-4-2 B-5-2 B-6-2 B-7-2	18			

FORM 407

PITTSBURGH TESTING LABORATORY

ESTABLISHED 1881

PITTSBURGH, PA.

AS A MUTUAL PROTECTION TO CLIENTS, THE PUBLIC AND OURSELVES, ALL REPORTS ARE SUBMITTED AS THE CONFIDENTIAL PROPERTY OF CLIENTS, AND AUTHORIZATION FOR PUBLICATION OF STATEMENTS, CONCLUSIONS OR EXTRACTS FROM OR REGARDING OUR REPORTS IS RESERVED PENDING OUR WRITTEN APPROVAL.

ORDER No. SF 657

651 Howard St. San Francisco

LABORATORY No.

CLIENT'S No.

FILE No.

REPORT

October 23,1953

Coranda Corporation
386 Race Street
San Jose,California.

Attention: Mr. J.L.Rodda, President

Composite Number	Sample Numbers	P.C.E. No.	Composite Number	Sample Numbers	P.C.E No.
2-4-Comp.-B	B-6-4 B-7-4 B-8-4 B-9-4 B-10-4	17	1-5-Comp.-B	B-1-5 B-8-5 B-14-5 B-15-5	23
3-4-Comp.-B	B-11-4 B-12-4 B-13-4 B-14-4 B-15-4	16	2-5-Comp.-B	B-16-5 B-17-5 B-18-5 B-19-5 B-20-5	23
4-4-Comp.-B	B-16-4 B-17-4 B-18-4 B-19-4 B-20-4	15			
5-4-Comp.-B	B-21-4 B-22-4 B-23-4 B-24-4	15			
Single Sample Numbers:					
6-4-P-B	L-343-1	37-38			
4-2-P-B	L-343-2	38			
3-4-P	18-4	33			
7-5-P	4-5	33			
6-6-P	20-6	32			

Respectfully submitted,

PITTSBURGH TESTING LABORATORY

Parker M. Robinson

District Manager

SS:wh
cc: 10 Above

Form MF-104 (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

ACCOUNTS MAR 14 1953 RECEIVED

Month of Sept., 1953 Docket No. DMEA 2510 Contract No. DMA-1487
Operator's Name Coranda Corporation Minerals Andalusite & Corundum
Address 386 Race St., San Jose, Calif.
Contract Amount, $ 36,000.00 Government Participation: 90 % Amount, $ 32,400.00

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		$28,750.	$28,750.			
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			4,475.00			
Sampling and Analysis	$3200.00	$1275.00	~~$35,225.00~~			
Payroll Taxes						
Liability Insurance						
(8) Contingencies (specify):						
TOTALS	$3200.00	$30,025.00	$35,225.00			

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

Date Oct. 1, 53 *Payee Coranda Corporation

Per Robert B Hall Title Secretary

*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:

$ 2880 00

Signature _____
(Authorized Certifying Officer)

Date _____ Vou. No. SF-DMEA-23

(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-E457 in accordance with the terms of the contract.

Signature A. C. Johnson Title Chief, Mining Div. Region III Date October 6, 1953.

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature H. C. Miller Title Executive Officer DMEA Field Team Region III Date October 13, 1953

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.

U. S. GOVERNMENT PRINTING OFFICE 205675

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

ACCOUNTS OCT 14 1953
PROCUREMENT OF THE DIVISION
Defense Minerals Administration
RECEIVED
Nov 2 1953

Month of Sept. 1953 Docket No. DMEA [illegible] Contract No. [illegible]
Operator's Name Corunda Corporation Minerals Andalusite &
Address 305 Reed St., San Jose, Calif. Corundum

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				[illegible]	[illegible]	$11.50	[illegible]	$11.50
Churn								
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails								
Sampling & Analyses	1 Sample	$3200.00	128	$4,675.00	179	$25.00	[illegible]	$25.00
TOTAL DISTRIBUTED COSTS				33,225.00				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS								

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 Sept. 1, 53 Operator Corunda Corporation

Per Robert B Hall Title Secretary

REMARKS:

→ 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)

(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.

U. S. GOVERNMENT PRINTING OFFICE 205676

Attachment to Report 104 and 104-A
Contract No. IDM-E457
Docket No. DMEA 2512

138 Chemical analyses of drill core samples were completed during the month of September. Analyses of samples from diamond drill holes 1 through 6, Green Talc Mine, have been completed. Samples from No. 7 hole, Green Talc Mine, and holes 1 through 5, Bismark Mine are in various stages of completion. Complete Chemical analyses of samples are expected to be completed during the first three weeks of October.

P. C. E. tests are under way and will be completed shortly after completion of chemical analyses.

FORM 407

PITTSBURGH TESTING LABORATORY

ESTABLISHED 1881

PITTSBURGH, PA.

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ORDER No. SF 657 651 Howard St. San Francisco LABORATORY No.

CLIENT'S No. FILE No.

REPORT

September 30, 1953

Comanda Corporation
386 Race Street
San Jose, California
Attention: Mr. J. H. Rodda, President

Subject: Analysis of Sillimanite Minerals

Sample Number	SiO_2	Al_2O_3	Fe_2O_3	TiO_2	CaO	MgO	Na_2O	K_2O	MnO	Ignition Loss
11-1	60.56%	24.00%	5.35%	0.64%	0.27%	0.34%	0.78%	3.95%	Trace	2.55%
15-1	59.64	25.30	5.15	1.09	0.63	0.33	0.65	3.45	"	2.38
20-1	60.98	23.25	1.48	1.47	1.87	0.46	0.98	4.50	0.01	3.09
B5-1	64.06	25.10	6.20	1.00	0.20	0.11	0.28	2.85	Trace	2.03
B8-1	60.64	32.65	1.95	0.98	0.06	0.02	0.12	0.70	"	1.07
B11-1	76.26	21.45	0.88	1.27	0.02	0.02	0.04	0.42	"	0.77
B13-1	71.14	25.40	0.54	1.08	0.09	0.02	0.05	0.58	"	0.88
B15-1	69.28	25.55	0.60	1.03	0.04	0.02	0.09	0.70	"	2.38
B20-1	68.44	26.40	1.08	1.05	0.03	0.02	0.07	0.70	"	1.36
10-2	60.66	19.55	6.10	1.95	2.85	1.75	0.36	3.20	0.15	5.07
11-2	59.48	19.75	5.85	0.82	1.15	0.73	0.55	3.75	0.10	5.88
18-2	60.48	27.30	0.94	1.15	0.10	0.15	0.52	5.15	Trace	3.40
19-2	57.00	26.90	1.25	0.85	0.45	0.27	0.73	6.90	"	3.90
20-2	55.60	29.10	1.62	0.48	0.52	0.52	0.75	6.50	0.01	3.42
21-2	50.28	33.00	1.70	0.69	0.73	0.53	0.91	8.10	0.01	3.89
22-2	51.24	31.10	1.88	0.79	0.84	0.64	0.81	7.30	0.01	3.68
24-2	51.90	31.65	2.13	0.96	0.83	0.42	0.91	7.40	0.01	3.65
26-2	56.54	23.45	8.95	0.91	0.57	0.07	0.47	4.50	0.01	2.81
27-2	55.42	24.70	7.80	1.15	0.72	0.07	0.52	4.55	Trace	3.15
30-2	82.12	10.55	1.45	1.02	0.20	0.05	0.15	1.51	"	1.18
31-2	52.32	31.05	2.30	0.74	0.14	0.14	0.81	7.40	0.01	4.02
33-2	56.02	26.65	5.90	1.22	0.24	0.24	0.64	5.75	Trace	2.98
34-2	56.48	23.85	6.70	1.15	0.55	0.17	0.65	6.10	"	3.07
35-2	62.60	23.95	2.85	0.95	0.15	0.07	0.46	4.45	"	3.05
36-2	57.00	28.90	2.55	1.17	0.41	0.53	0.62	4.95	"	3.17
37-2	44.12	38.05	2.30	1.12	0.45	0.31	0.98	10.50	"	4.02
38-2	53.74	26.50	8.20	1.17	0.87	0.15	0.45	4.70	"	2.95
39-2	57.16	26.20	2.55	1.12	0.46	0.19	0.89	9.50	"	3.75
40-2	62.74	24.90	2.10	1.10	0.08	0.37	0.48	4.25	"	2.66
41-2	52.50	32.40	2.35	2.35	0.12	0.63	0.69	5.40	"	2.91
42-2	57.30	27.10	3.55	3.55	0.48	0.47	0.76	7.65	"	3.60
43-2	56.40	27.00	3.10	3.10	0.44	0.46	0.58	6.10	"	3.64
44-2	53.62	28.00	3.60	3.60	0.35	0.78	0.76	7.10	"	3.73
B3-2	69.40	16.80	4.95	0.18	0.77	0.56	0.80	3.35	0.13	1.13
13-3	77.68	10.70	6.15	1.05	0.08	0.22	0.17	1.95	Trace	1.75
15-3	63.96	22.25	1.12	2.90	0.81	0.17	0.58	4.00	"	2.30
18-3	40.82	29.95	13.70	1.13	1.60	0.39	0.92	6.35	"	3.33
19-3	53.40	22.70	16.45	1.00	0.79	0.29	0.49	3.25	"	2.61

FORM 407

PITTSBURGH TESTING LABORATORY

ESTABLISHED 1881

PITTSBURGH, PA.

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ORDER No. SF 657

651 Howard St. San Francisco

LABORATORY No.

CLIENT'S No.

FILE No.

REPORT

September 30,1953

Coranda Corporation

Sample Number	SiO_2	Al_2O_3	Fe_2O_3	TiO_2	CaO	MgO	Na_2O	K_2O	MnO	Ignition Loss
20-3	57.88%	19.45%	12.60%	0.85%	0.68%	0.23%	0.57%	3.35%	Trace	2.73%
B4-3	86.46	8.45	0.82	1.02	0.03	0.07	0.07	1.05	"	0.60
B8-3	65.50	22.05	4.15	0.93	0.04	0.46	0.25	3.80	"	2.11
B11-3	56.62	22.85	8.80	0.90	0.22	0.30	0.32	5.50	0.02	2.64
B13-3	78.14	7.05	8.50	1.02	0.21	1.78	0.20	2.80	0.06	1.93
B17-3	49.98	32.88	2.95	0.39	3.40	0.78	1.15	3.45	0.16	4.30
2-4	58.24	17.70	15.50	1.20	0.65	2.18	0.18	1.95	0.17	1.48
18-4	52.42	42.65	0.57	0.78	0.06	0.03	0.13	0.78	Trace	2.63
19-4	53.86	38.05	0.93	0.78	0.03	0.09	0.18	1.43	"	2.56
20-4	59.42	34.55	0.61	0.44	0.06	0.05	0.16	0.50	"	2.18
21-4	63.46	24.85	2.46	0.86	0.39	0.28	0.15	0.33	"	0.81
22-4	73.78	15.05	2.25	0.47	0.12	0.37	0.14	1.92	"	2.12
23-4	74.46	15.55	2.23	0.75	0.10	0.86	0.60	2.15	"	2.11
24-4	72.60	15.80	2.54	0.26	0.14	0.84	0.64	1.55	"	1.77
25-4	59.12	17.90	16.25	1.00	0.41	0.82	0.48	2.60	0.02	2.05
26-4	55.28	22.75	10.75	0.73	0.73	0.16	0.94	5.45	Trace	2.87
B3-4	57.50	31.65	2.80	0.65	0.24	0.53	0.23	2.27	0.01	2.67
B8-4	59.68	26.15	3.30	0.65	0.23	0.58	0.33	4.05	Trace	3.42
B17-4	65.22	15.55	5.85	0.58	4.05	1.40	1.65	2.35	0.26	1.27
B25-4	49.34	25.70	12.50	1.02	1.41	5.00	0.16	1.90	0.35	2.17
1-5	48.70	31.65	4.20	1.02	1.14	0.96	1.85	8.30	Trace	4.37
3-5	48.42	32.75	3.35	0.91	0.16	0.87	1.65	8.35	0.01	4.75
4-5	49.82	45.15	0.76	0.75	0.06	0.03	0.19	0.85	Trace	2.81
5-5	56.78	38.05	0.98	1.20	0.03	0.02	0.19	0.71	"	1.72
5-5A	61.90	31.65	0.76	2.45	0.02	0.02	0.06	0.10	"	2.11
5-5B	60.22	34.65	0.69	1.62	0.02	0.01	0.14	0.47	"	1.80
5-5C	53.42	41.00	0.69	1.20	0.03	0.01	0.15	0.44	"	1.97
5-5D	70.46	24.45	0.70	1.95	0.03	0.02	0.04	0.09	"	0.78
5-5E	63.80	33.20	0.92	1.38	0.04	0.03	0.08	0.18	"	1.32
5-5F	62.92	33.90	0.81	1.43	0.06	0.03	0.23	0.88	"	1.79
7-5	65.88	25.70	1.14	3.15	0.04	0.05	0.13	0.65	"	1.38
8-5	72.28	18.60	2.17	4.00	0.05	0.06	0.09	0.37	0.02	1.04
9-5	72.54	22.95	0.92	1.68	0.02	0.02	0.04	0.15	Trace	0.90
10-5	69.24	22.45	3.02	1.32	0.04	0.09	0.24	1.10	"	2.38
11-5	50.08	34.40	1.53	1.34	0.03	0.19	1.38	7.00	"	3.93
12-5	76.90	14.80	0.98	4.30	0.02	0.06	0.08	0.37	"	0.62
13-5	69.34	18.04	2.50	1.45	1.72	0.36	0.45	2.64	0.15	2.66
14-5	76.54	17.50	0.86	1.34	0.09	0.04	0.21	1.18	0.01	1.03
17-5	78.22	13.75	0.47	1.62	0.26	0.04	0.31	2.33	Trace	1.62
18-5	73.44	17.90	0.69	1.28	0.08	0.08	0.34	2.65	0.02	2.06
21-5	48.74	33.85	1.58	0.64	0.10	0.64	1.20	9.50	0.01	4.05
22-5	53.50	31.80	1.40	1.08	0.14	0.27	0.97	8.90	Trace	3.78

FORM 407

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ORDER No. SF657 651 Howard St. San Francisco LABORATORY No.

CLIENT'S No. FILE No.

REPORT

September 30,1953

Coranda Corporation

Sample Number	SiO_2	Al_2O_3	Fe_2O_3	TiO_2	CaO	MgO	Na_2O	K_2O	MnO	Ignition Loss
23-5	47.04	31.20	1.72	0.86	0.46	0.53	1.33	11.50	0.01	4.43
24-5	51.06	25.00	8.50	1.17	1.85	1.40	0.97	5.62	0.08	4.36
25-5	52.40	16.40	9.20	1.85	6.70	3.40	1.18	2.60	0.34	7.57
26-5	47.62	27.25	6.65	0.93	1.95	0.89	1.17	8.35	0.04	4.59
27-5	52.80	24.35	7.40	0.93	1.98	0.92	1.38	7.45	0.04	4.09
27-5A	55.00	38.90	0.65	1.32	0.05	0.03	0.08	0.75	Trace	1.84
28-5	60.34	22.05	6.80	0.81	1.85	0.78	1.20	4.55	0.05	3.20
29-5	64.42	17.45	7.05	0.62	3.50	1.00	3.30	2.20	0.17	1.97
30-5	57.68	15.80	18.04	1.80	6.15	2.55	1.13	2.35	0.17	4.01
31-5	51.86	15.10	16.20	2.12	3.65	3.25	0.82	2.50	0.22	6.21
32-5	54.82	17.50	15.75	1.22	2.10	2.70	1.08	2.18	0.24	3.25
B1-5	64.44	25.30	0.60	0.83	0.24	0.27	0.20	3.30	Trace	3.06
B6-5	66.86	27.90	0.36	0.38	0.04	0.03	0.10	1.30	"	0.99
B8-5	64.98	25.60	2.12	0.88	0.04	0.05	0.19	1.95	"	2.90
B15-5	77.56	13.55	3.30	0.90	0.01	0.08	0.13	1.40	"	1.15
B21-5	73.92	17.70	0.84	0.50	0.01	0.02	0.19	2.70	"	2.11
2-6	53.10	33.40	1.70	0.57	0.05	0.06	0.47	4.70	0.01	3.43
3-6	56.95	20.90	16.05	1.09	0.37	0.10	0.43	2.05	Trace	1.70
4-6	45.44	39.95	1.45	0.70	0.05	0.05	0.89	5.85	"	3.73
4-6A	57.08	31.50	2.38	0.89	0.10	0.12	0.46	2.90	"	2.66
5-6	56.80	33.75	1.22	1.02	0.06	0.07	0.44	2.85	"	2.47
6-6	53.50	32.70	0.70	1.04	0.15	0.08	1.12	6.05	"	3.65
7-6	71.06	19.80	3.05	0.25	0.11	0.57	0.91	2.70	0.03	2.48
9-6	56.98	33.35	0.69	0.62	0.10	0.07	0.36	3.30	Trace	2.53
10-6	63.80	31.40	0.79	1.15	0.08	0.02	0.09	0.43	"	1.80
11-6	61.30	32.65	1.00	1.03	0.06	0.02	0.21	0.89	"	1.74
12-6	59.70	34.80	1.12	0.82	0.05	0.02	0.27	1.45	"	1.97
13-6	59.46	30.95	3.85	0.91	0.08	0.24	0.32	1.40	"	1.92
14-6	61.04	34.35	0.95	0.94	0.09	0.06	0.21	1.08	"	1.76
15-6	62.66	33.95	0.92	0.94	0.06	0.04	0.06	0.22	"	1.61
16-6	62.82	32.70	0.72	0.66	0.06	0.02	0.04	0.18	"	1.94
17-6	61.88	34.75	0.90	0.94	0.12	0.01	0.05	0.12	"	2.20
18-6	64.94	29.80	0.71	0.86	0.05	0.02	0.03	0.09	"	1.72
19-6	64.30	31.60	0.67	0.82	0.04	0.02	0.04	0.13	"	1.15
20-6	56.64	37.65	0.60	0.75	0.07	0.02	0.05	0.24	"	2.20
21-6	60.24	32.70	1.52	0.74	0.05	0.02	0.21	0.94	"	1.98
27-6	53.70	19.80	16.55	1.03	0.47	0.22	0.63	3.55	0.01	2.39
28-6	51.82	29.35	6.50	0.78	0.78	0.19	1.05	6.05	0.01	3.67
5-7	61.40	20.40	5.85	0.72	0.61	0.67	1.60	4.90	0.03	3.48
6-7	53.92	25.60	2.55	0.78	0.13	0.23	0.74	9.30	Trace	4.40
7-7	45.88	34.45	7.50	1.00	0.80	0.50	0.51	5.20	0.01	3.27
8-7	56.04	19.90	17.55	0.91	0.38	0.91	0.20	1.45	0.04	1.53

FORM 407

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ORDER No. SF657 651 Howard St. San Francisco LABORATORY No.

CLIENT'S No. FILE No.

REPORT

September 30, 1953

Coranda Corporation

Sample Number	SiO_2	Al_2O_3	Fe_2O_3	TiO_2	CaO	MgO	Na_2O	K_2O	MnO	Ignition Loss
9-7	53.60%	17.80%	20.50%	1.07%	0.56%	0.82%	0.33%	3.00%	0.06%	2.03%
10-7	55.06	17.70	16.80	1.02	0.49	1.21	0.30	3.00	0.06	2.64
11-7	54.70	20.20	15.55	0.97	0.39	0.64	0.33	3.15	0.02	2.68
15-7	53.18	30.45	2.40	0.78	0.10	0.20	0.56	9.10	Trace	3.94
22-7	59.92	23.95	4.75	0.87	0.16	0.28	0.39	4.40	"	2.98
28-7	56.48	21.45	10.85	0.98	0.41	0.43	0.53	4.30	"	2.91

Respectfully submitted,

PITTSBURGH TESTING LABORATORY

Carlos M. Robinson

District Manager

SS
bk
cc: 16 - above

Form MF-194 (Rev.)
(April 1952)

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

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

ACCOUNTS SEP 22 1953

Month of August 1953 Docket No. DMEA 2512 Contract No. DMEA-T 457

Operator's Name Corinda Corporation Minerals Andalusite & Corundum

Address 306 Race Street, San Jose, California

Contract Amount, $ 36,000.00 Government Participation: 90 % Amount, $ 32,400.00

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:		23,750.00	23,750.00			
Drilling						
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	1275.00	00.00	1275.00 ~~30,025.00~~			
Sampling and Analysis						
Payroll Taxes						
Liability Insurance						
(8) Contingencies (specify):						
TOTALS	~~1275.00~~	~~23,750.00~~	~~30,025.00~~			

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

Date Sept 1, 1953 *Payee Corinda Corporation

Per D. H. Rodda Title President.

*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:

$ 1147 50

Signature Lloyd H. Sjolander
Authorized Certifying Officer
(Authorized Certifying Officer)

Date SEP 23 1953 Vou. No. SF-DMEA-18

(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. [illegible] in accordance with the terms of the contract.

Signature [illegible] Title [illegible] Date [illegible]

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature [illegible] Title Executive Officer DMEA Field Team Region III Date September 21, 1953

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-R1151.1
Approval expires 6-30-53.

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

ACCOUNTS DIVISION
Defense Minerals Administration
RECEIVED
SEP 28 1953

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of August 1953 Docket No. DMEA 2512 Contract No. DMEA 457
Operator's Name Corunda Corporation Minerals Anadalusite & Corundum
Address 506 Race Street, San Jose, California

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				28,750	2500'	11.50	2500	11.50
Churn								
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails								
Sampling & Analysis	Sample	1275.00	51	1275.00	51	25	250	25.00
Total Distributed Costs				30,025.00				Total Costs Authorized by Contract
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
Total Costs				30,025.00				

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 Sept. 1, 1953 Operator Corunda Corporation

Per J. H. Rodeles Title President

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)

Remarks:

(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

COPY TO

To

Date

From

Subject

ATTACHMENT TO REPORT 104 and 104A
CONTRACT NO. IDM-E-457
DOCKET NO. DMEA 2512

Prepared samples of diamond drill cores from the Green Talc and Bismark Mines were delivered to Pittsburg Testing Laboratory at San Francisco during the latter part of July. The sample testing and analytical methods as worked out in our laboratory are being used by Pittsburg Testing Laboratories, to perform the analysis specified per contract. Some delay was experienced by P.T.L. in getting started on the work due to procurement and setting up of equipment.

Chemical analysis on 51 samples were completed during the month of August. Most of these tests were made on samples from ore bearing rock; however, several samples of waste rock were tested for information purposes. A complete description of each sample as to position and type of rock represented will be given in the final report for purposes of comparision and correlation.

Plan and cross sectional views of the diamond drilling work are being performed and are essentially complete excepting chemical analysis which are being added as received.

FORM 407

PITTSBURGH TESTING LABORATORY

ESTABLISHED 1881

PITTSBURGH, PA.

AS A MUTUAL PROTECTION TO CLIENTS, THE PUBLIC AND OURSELVES, ALL REPORTS ARE SUBMITTED AS THE CONFIDENTIAL PROPERTY OF CLIENTS, AND AUTHORIZATION FOR PUBLICATION OF STATEMENTS, CONCLUSIONS OR EXTRACTS FROM OR REGARDING OUR REPORTS IS RESERVED PENDING OUR WRITTEN APPROVAL.

DEPT. OF THE INTERIOR
Bureau Mines Administration
RECEIVED
SEP 28 1953

ORDER No. SF 657 651 Howard St. San Francisco LABORATORY No.

CLIENT'S No. FILE No.

REPORT

August 31, 1953

Comanda Corporation
386 Race Street
San Jose, California
Attention: Mr. J. H. Rodda, President

Subject: Analysis of Sillimanite Minerals

Sample Number	SiO_2	Al_2O_3	Fe_2O_3	TiO_2	CaO	MgO	Na_2O	K_2O	MnO	Ignition Loss
1-1	52.86%	29.20%	6.58%	0.41%	0.50%	.75%	0.44%	3.30%	Trace	4.11%
2-1	53.38	28.90	5.44	0.80	0.15	.58	0.48	3.74	"	3.65
3-1	53.82	27.80	6.86	0.92	0.44	.33	0.58	4.75	"	3.64
4-1	60.10	24.80	6.02	0.48	0.10	.47	0.37	2.72	"	3.28
5-1	60.32	25.55	5.01	0.33	0.41	.65	0.42	2.90	"	3.10
6-1	50.28	36.30	2.48	0.94	0.30	0.97	0.58	3.40	"	3.97
7-1	42.02	41.20	3.43	0.70	0.35	1.10	0.67	5.60	"	3.94
8-1	61.58	22.40	6.64	1.17	1.25	0.65	0.38	2.13	"	2.43
9-1	62.64	25.70	2.81	1.00	0.22	0.95	0.42	3.65	"	3.10
10-1	57.96	25.70	3.61	0.40	0.32	0.97	0.60	6.70	"	2.97
12-1	53.70	21.40	5.08	1.07	0.25	0.90	0.38	2.36	"	2.94
16-1	47.74	36.90	3.48	0.44	1.05	0.60	0.46	3.40	"	3.93
17-1	64.70	20.30	3.80	1.04	0.32	0.76	0.43	4.33	"	5.99
18-1	57.22	30.50	1.69	0.78	0.34	0.65	0.48	2.70	"	3.67
19-1	45.64	37.80	7.90	0.95	0.33	0.50	0.55	4.20	"	0.28
B4-2	62.52	28.45	5.29	0.68	0.26	0.52	0.28	1.67	"	0.36
B5-2	69.52	21.00	3.15	1.09	0.32	0.63	0.27	2.50	"	0.21
B7-2	67.88	16.60	3.08	0.78	0.31	0.70	0.38	6.50	"	2.02
B8-2	93.12	4.00	0.86	1.12	0.40	0.74	0.21	0.45	"	0.23
B9-2	91.44	4.20	0.66	0.78	0.28	0.63	0.27	0.93	"	0.51
B10-2	91.34	4.80	0.86	1.12	0.24	0.61	0.20	0.60	"	0.29
B11-2	88.12	6.15	0.57	1.43	0.32	0.65	0.29	1.43	"	0.41
B12-2	83.00	12.55	0.75	1.37	0.26	0.54	0.22	0.83	"	1.06
B14-2	83.60	12.50	0.83	1.43	0.26	0.54	0.15	1.33	"	0.49
B15-2	72.56	23.95	1.03	0.69	0.20	0.35	0.13	0.17	"	0.97
B16-2	69.52	25.45	1.09	1.23	0.23	0.38	0.07	0.15	"	0.97
B17-2	72.74	21.35	1.63	1.10	0.31	0.38	0.22	0.13	"	0.95
B18-2	74.00	22.85	1.95	0.78	0.32	0.39	0.14	0.05	"	1.12
B19-2	65.22	28.15	1.77	0.73	0.27	0.32	0.14	0.40	"	1.54
B20-2	66.36	26.90	2.84	1.29	0.32	0.41	0.20	1.27	"	1.72
B21-2	69.14	22.05	2.23	0.98	0.25	0.37	0.22	1.45	"	2.69
B22-2	72.46	18.50	3.18	1.12	0.36	0.46	0.20	1.40	"	2.25
1-3	51.50	31.80	1.92	0.95	0.48	0.82	0.41	7.90	"	4.03
2-3	63.18	18.40	7.59	1.17	0.38	0.79	0.35	2.85	"	3.82
3-3	64.70	22.60	1.32	1.01	0.34	0.73	0.27	4.47	"	2.88
4-3	65.72	20.60	1.49	0.85	0.20	0.28	0.33	5.81	"	2.76
5-3	72.98	15.60	0.97	1.38	0.19	0.24	0.30	5.50	"	2.10
9-3	69.32	15.75	4.73	0.68	1.40	0.91	1.41	1.87	"	2.64

FORM 407

PITTSBURGH TESTING LABORATORY

ESTABLISHED 1881

PITTSBURGH, PA.

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ORDER No. SF 657 651 Howard St. San Francisco LABORATORY No.

CLIENT'S No. FILE No.

REPORT

August 31, 1953

Coranda Corporation
386 Race Street
San Jose, California

Attention: Mr. J. H. Rodda, President

Sample Number	SiO_2	Al_2O_3	Fe_2O_3	TiO_2	CaO	MgO	Na_2O	K_2O	MnO	Ignition Loss
14-3	51.56%	34.05%	1.43%	0.05%	0.18%	0.17%	0.49%	6.40%	Trace	4.00%
16-3	58.58	30.00	1.71	1.03	0.21	0.30	0.50	4.65	"	2.54
17-3	45.70	40.65	1.89	1.25	0.33	0.48	0.43	4.40	"	4.29
3-4	62.86	28.20	1.02	1.22	0.33	0.49	0.30	2.82	"	2.08
4-4	65.14	26.95	4.11	1.03	0.29	0.35	0.13	0.88	"	1.29
5-4	66.60	24.90	2.29	0.98	0.31	0.22	0.21	1.87	"	2.10
7-4	68.50	18.50	5.84	0.95	0.37	0.55	0.19	1.55	"	1.65
8-4	68.60	14.85	7.83	0.95	0.28	0.53	0.61	2.55	"	1.68
9-4	73.60	10.40	11.51	1.33	0.32	0.56	0.64	0.93	"	1.11
10-4	82.18	6.45	7.16	1.17	0.27	0.49	0.34	0.38	"	0.47
11-4	93.36	0.85	1.33	1.17	0.22	0.41	0.61	3.01	"	0.05
16-4	73.50	19.40	1.23	0.93	0.17	0.32	0.43	2.35	"	2.26
17-4	67.50	25.80	2.09	0.92	0.19	0.41	0.59	2.52	"	1.95

Respectfully submitted,

PITTSBURGH TESTING LABORATORY

Carlton M. Robinson

District Manager

SS
bk
cc: 10 above

Form MF-104 (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 May 1, 1953 Docket No. DMEA 2512 Contract No. DMEA 5457
Operator's Name Corenda Corporation Minerals Andalusite
Address 336 Paco St., San Jose, Calif. & Corundum
Contract Amount, $ 56,000.00 Government Participation: 80 % Amount, $ 32,400.00

ITEMS OF COSTS	FOR OPERATOR'S USE: Monthly Total	Totals Previously Reported	Totals To Date	FOR GOVERNMENT USE ONLY: Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Contracts:						
Drilling						
Bulldozing						
Crosscutting						
Drifting	$6095.00	$22,655.00	$28,750.00	6095.00 - 1150.00	See Correspondence Attached	
(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				4945.00	22,655.00	28,750.00

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

Date May 1, 1953 *Payee Corenda Corporation

Per D. H. Rodda Title President

*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:

$ 4450.50

Signature Max H. Slender
(Authorized Certifying Officer)

Date JUL 13 1953 Vou. No. SF-DMEA

(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. [illegible] in accordance with the terms of the contract.

Signature A. C. Johnson Title [illegible] Date June 8, 1953.

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature H. C. Miller Title Executive Officer DMEA Field Team Region III Date June 10, 1953

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.

RECEIVED

ACCOUNTS JUL 6 1953

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of May 1953 Docket No. DMEA 2512 Contract No. DMA-E457

Operator's Name Coranda Corporation Minerals Andalusite

Address 536 Race St., San Jose, Calif. & Corundum

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	1 ft	$6095.00	530	$28,750.00	2500	28,750.00	2500	$11.50
Churn								
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails								
TOTAL DISTRIBUTED COSTS								TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS								

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 May 1, 1953 Operator Coranda Corporation

Per J. H. Radella Title President

REMARKS:

→ 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)

(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

CORANDA CORPORATION
586 Race Street
San Jose, California
June 1, 1953

Attachment to Report 104 and 104-A
Docket No. DMEA 2512
Contract No. Idm-E457

During the month of May, 530 feet of hole was diamond drilled on the Bismark group of claims which completes the 2500 feet of drilling alloted in our contract. Three holes were completed, No. 3 hole from 20 feet to a depth of 171 feet, No. 4 hole from 0 feet to 200 feet and No. 5 hole, from 0 feet to 179 feet.

Upon approval of the Reno, Nevada, office of the Bureau of Mines, No. 4 hole was spotted at a point just above the road approximately 50 feet in a southerly direction and 20 feet further east than the starting point of No. 1 hole. The strike of the hole was aligned with other holes at an angle of N 70° W and at a dip of minus 45°. The last hole, No. 5, upon approval, was spotted at a point approximately midway between the starting point of No. 3 hole and the surface projection of the bottom of No. 2 hole and approximately 60 feet further east. The strike of the hole as made at an angle of N 70°W and at a dip of minus 45°.

No. 3 hole was continued from 20 feet to a depth of 171 feet where the hole was bottomed due to the fact that a considerable amount of waste rock was found which was on the same strike as waste rock encountered in other holes. A general ore zone was pierced at 25 feet which continued to approximately 65 feet in depth. Another minor ore zone was struck at a depth of 140 to 160 feet, was found extremely broken up and of low grade. The first half of the hole drilled was found to be in solid formation but the latter part of hole was found very difficult due to broken formation previously mentioned which caused poor core recovery. A very dark, fine grained rock was pierced during the latter part of the hole which was pierced by other holes at the approximately same distance from the large outcrop on western edge of the mineralized area.

No. 4 hole pierced a general ore zone near the starting point and continued to a depth of approximately 70 feet with the quality of the ore decreasing for the last 20 feet. The remainder of the hole for the most part showed very dark meta volcanic rock which shows quite definitely that the lower extremity of the ore body does not extend further south than the road leading to the deposit. Near the bottom of the hole where AX sized drilling was performed the formation was found broken and loose causing difficult and poor core recovery.

No. 5 hole proved to be the most successful of all the holes drilled as essentially the entire hole was drilled in an ore zone.

The quality of the ore was the best found in any of the holes. Generally speaking it is believed that the main ore zone lies east of the large main outcrop and for the most part the other holes were placed too far to the west.

Itwas observed that more schistosed and platy structures existed in the rock formation on the Bismark set of claims than that found on the Green Talc Mine. The rock was found to be more massive when ore zones were pierced and of greater hardness exceptin where diaspore seams were enterecounted. The crystal sizing of the ore was found to be somewhat larger than that found on the Green Talc Mine.

The average footage per working shift on No. 3 hole was 10.8 feet, on No. 4 hole, 11.1 feet and on No. 5 hole, 19.9 feet.

All of the core from the five holes has been split and one half of the core from holes 1 and 2 has been pulped and prepared for analysis.

No analysis are being reported this month as this phase of work is currently being reexamined for the prupose amending our contract due to difficulties explained in a letter to Mr. H. C. Miller, Executive Officer, DMEA, DMEA Field Team, Region III, dated May 19, 1953.

Docket No. DMEA-2512
Contract No. Idm-E457

Bismark Mine
Mineral County, Nevada

Diamond Drill Log - Hole #3
Strike N 70° W, Dip 30°

Feet From	To	Size	Description
2'	7'	NX	Few inches of schistosed meta volcanics.
2.5'	7'		Quartzite. Solid formation. 60% C.R.
7'	10'		Quartzite. Solid formation. 60% C.R.
10'	15'		Same as above. 80% C.R.
15'	20'		Slight alteration of quartzite at 15'. Reddish brown hematite stain which continues to 20'. C.R. 40%
15'	20'		C.R. 100%
20'	23'	NX	Quartzite with reddish stain to 23'. 100% C.R. Solid formation.
23'	27'		50% C.R. Mineralization starts at 23'. Light green small areas shot through core. Mineralization increasing to 27'.
27'	32'		Mineralization continuing. Material more broken up. Light ground mass, appears to be mixture of quartzite and AlSi minerals 40% C.R.
32'	35'		Mineralization or low grade ore continuing to 34' where quality increases to a general ore zone which continues to 35'. 50% C.R.
35'	41'		Solid ore, general ore zone. 75% C.R.
41'	46'		Ore zone becoming quite lean at 41' where quartzite is becoming predominant, country more broken up. 50% C.R.
46'	50'		60% C.R. Ore and quartzite country broken.
50	55'		Material at 50' still broken, green AlSi minerals more predominant. Mineralization decreasing to 53' where quartzite is predominant. 75% C.R.
55'	60'		10% C.R. Highly broken up ore zone. Schistosed material.
60'	63'		10% C.R. Same as above.
63'	65'		50% C.R. Alteration at 63'. Reddish honey combed material with some mineralization. Material becoming highly schistosed at 64'. Green AlSi minerals.
65'	70'		80% C.R. Continuing schistose structure, occasional green AlSi minerals showing. Alteration at 67' to schistosed meta volcanics with oxidized surfaces, continuing to 70'.
70'	75'		Waxy surfaces on shear planes. Plate like partings. 100% C.R.
75'	81'		70% C.R. Same as above. Platy structure more predominant.
81'	86'		Dark ground mass till prevailing (meta volcanics, country broken up. 50% C.R.
86'	91'		50% C.R. Same as above. Some mineralization
91'	95'		Material alters to a light colored schistosed structure slight mineralization. Platy surfaces. Continues to 94' where mineralization increases to 95'. 50% C.R.
95'	100'		C.R. 20% broken up country, some mineralization showing in in the schist.
100'	105'		Continuing schist to 102' where alteration occurs to darker meta andesites which continues to 105'. 100% C.R. Countyy not quite so broken.
105'	111'		100% C.R. Dark meta andesites. Some oxidized surfaces continuing to 111.
111'	116'		At 111 country very broken, schistosed light material to 114' where alteration to dark meta andesites takes place which continues to 116' in massive structure. 80% C.R.
116'	121'		Continuing dark, massive meta andesites to 121'.

Bismark Mine
Mineral County, Nevada

Docket No. DMEA-2512
Contract No. Idm-E457

Diamond Drill Log - Hole # 3

Feet From	To	Size	Description
121	126'	BX	40% C.R. Highly broken and dark colored meta andesites.
126	131'		Very poor core recovery - Less than 10%. Samesaabove.
131	136'		No. C. R.
136	141'	AX	Less than 5% C. R. Highly broken meta andesites.
141	146'		Poor core recovery, some mineralization showing in meta andesites.
146	151'		Soft sandy material showing with samll pieces of ore. Country highly broken. Very poor core recovery.
151	161'		10% C.R. Schistosed structure with considerable mineralization, highly broken up.
161	166'		Alteration to grey to reddish material sandy in structure. 50% C.R.
166	171'		Continuing soft broken up material, reddish and grey mixture to bottom of hole.

Bismark No. 4
Bismark Mine
Mineral County, Nevada

Docket No. [illegible]A-2512
Contract No. Idm-E457

Diamond Drill Log - Hole # 4
Strike N 70° W - Dip -45°

Feet From	To	Size	Description
0	6'	NX	Overburden
6	10		80% C.R. General ore zone, core solid.
10	16		Same as above, solid formation 100% C.R.
16'	23		General ore zone continuing. Broken up country at 21' to 23' 100% C.R.
23	30		Ore zone continuing to 26' where alteration to meta volcanics occurs with some mineralization. 60% C.R.
30'	36	BX	50% C.R. Ore zone at 30', continuing to 36' with small seam of meta volcanics at 34' continuin 36'.
36	39		36'-37', Brecciated material with schistosity, 37'-39' alteration back to ore zone. 80% C.R.
39	44.5'		Ore zone continuing to 43', quite broken up, alteration at 43' to very dark meta volcanics. 70% C.R.
44.5	49'		90% C.R. Continuing dark meta volcanics, solid formation.
49	53'		Continuing meta volcanics to 50' where country is broken and lighter in color. Alteration at 51 to green AlSi minerals.
53	59'		80% C.R. Ore continuing to 54' where shaly or platy structure occurs, light ground mass, some mineralization.
59	64'		Broken up country to 61', loose material showing some ore. 61-64', badly broken up schistose structure. 80% C.R.
64	75'		Alteration to dark platy shale at 69 which continues to 70' where material is of massive dark meta andesites, which continues to 75'. 40% C.R.
75	80'		Continuing dark meta andesites which continue to 75'. 80% C.R.
80	83'		Same as above 75% C.R.
83	86'		Considerable quartz showing in dark meta andesites, also porphrytic structure with some feldspars scattered throughout. 75% C.R.
86	91'		100% C.R. Dark meta andesites, solid formation.
91	96'		100% C.R. Same as above. No mineralization.
96	102'		90% C.R. Same as above.
102	107'		Continuing dark meta andesites with small phenocrysts. 100% C.R.
107	109'		75% C.R. Same as above except for occassional quartz seams.
109	114'		80% C.R.
114	120'		Same as above, 90% C.R.
120	125'		Same as above, 50% C.R.
125	128'		Broken up country beginning at 127'. Lighter ground mass. 50% C.R.
128	134'		Schistosed structure, some mineralization. 50% C.R.
134	139'		5% C.R. Broken up country, light ground mass.
139	145'		30% C.R. Ore showing at 139 which continues to 145, low grade.
145	147'	AX	80% C.R. Some mineralization continuing to 147 in dark ground mass.
147	150'		30% C.R. Broken up country, some mineralization, dark in color.
150	155'		20% C.R. Very badly broken, dark, material. Meta andesite
155	160'		40% C.R. Formation more solid, dark meta andesite.
160	165'		20% C.R. Same as above.
165	170'		Poor C.R. Same as above with slight mineralization.

Bismark Mine
Mineral County, Nevada

Pocket No. [illegible]A-2[illegible]
Contract No. I[illegible]m-54[illegible]7

Diamond Drill Log - Hole #4

Feet From	To	Size	Description
170	175'		50% C.R. Continuing predominance of meta andesites with slight mineralization.
175	180'		10% 10% C.R. Same as above.
180	185'		Dark meta andesite, badly broken, 2[illegible] C.R.
185	190'		Same as above. Poor C.R.
190	195'		40% C.R. Formation more solid. Black meta andesite.
195	200'		Same as above with some mineralization. 40[illegible] C.R.

Bismark Mine
Mineral County, Nevada

Document No. DMEA-2512
Contract No. IGm-E457

Diamond Drill Log - Hole #5
Strike N 70° W - Dip -45°

Feet From	To	Size	Description
3	11'	NX	Solid formation, general ore zone, light in color with green AlSi minerals throughout. 85% C.R.
11	16'		90% C.R. Ore zone continuing, appears tobe lower in grade up to 16'. Very solid formation.
16	21'		20% C.R. Alteration at 16', siliceous structure. Light ground mass. highly broken up.
21	26'		Country not quite so broken. some schistosed structure. 2% C.R.
26	28.5'		Formation solid. highly siliceous at 26' mineralization increasing to general ore zone at 28'. 90% C.R.
28.5	31'		General ore zone, solid core, slightly darker in color. 80% C.R.
31	35'		Highly broken up country, schistosed structure, with abundant green AlSi minerals. 10% C.R.
35	41'		Formation more solid- at 35'-36'. General ore zone broken up from 36'-41', quarts seam at 40-41', Broken up country. 60% C.R.
41	46'		Schistosed structure at 41' continuing, 44', General ore zone, 44-46' ore zone formation more solid. Some oxidized surfaces. 60% C.R.
46	51'		Broken up ore zone, 46-47'. Formation solid from 47-51'. General ore zone continuing to 51', good quality. 100% C.R.
51	56'		General ore zone continuing. country more broken up which continues to 52'. Formation solid from 52'-56'. General ore zone. 80% C.R.
56	59'		At 56-57' slight change in structure highly iron stained ore zone. Formation solid and ore zone contiues. Blue green cast. 100% C.R.
59	61'		General ore zone continuing. Solid formation. 100% C.R.
61	66'	BX	General ore zone continuing unusual mineralization at 62'. Light in color with off color green veinlets. Country more broken up. 60% C.R.
66	71'		General ore zone continuing. Solid formation. 100% C.R.
71	75.5'		80% C.R. Same as above.
75.5	81'		Sameas above. 70% C.R. Country somewhat broken.
81	91'		Ore more quartzite at 81' increasing in quality up to 86'. 70% C.R.
86	91'		Low grade ore to 91'. Country somewhat broken with quartz seams interruption. 60% C.R.
91	93'		Same character ore to 93'. 75% C.R. Buff in color.
93	95'		Ore zone, low in grade. Quite siliceous. Small crystals of meta volcanics slot through. 75% C.R.
95	100'		General ore zone. Quite siliceous, appearing to be higher in grade. 70% C.R.
100	105'		70% C.R. Better grade ore zone continuing up to 105'.
105	108'		50% C.R. Continuing ore zone.
108	111'		40% C.R. Same as above.
111	114'		Ore continues solid to 114 where alteration takes place to grey meta andesites. 30% C.R.
114	117'		Meta andesites continuing to 116 where alteration takes place to general ore zone , darker in color, reddish. Continues to 117. 70% C.R.
117	120'		80% C.R. Continuing ore zone. Reddish in color, somewhat broken up.
120	124'		Ore zone continuing to 124'. Lighter in color to 122 and darker from 122-124. 80% C.R.

Project No. DMEA-2512
Contract No. Idm-E457

Bismark Mine
Mineral County, Nevada

Diamond Drill Log - Hole #5
Strike N 70° W - Dip -45°

Feet From	To	Size	Description
124	127'		General ore zone continuing 127' lower in grade from 126-127' 100% C.R.
127	132'		Somewhat siliceous ore to 128'. Very solid core from 128-131'. General ore zone. 100% C.R. 100 % C.R.
132	136'		75% C.R. Low grade ore zone. Formation solid. Quite siliceous in appearance.
136	139'		Same as above. 70% C.R.
139	142'		2% C. R. Same as above.
142	146		30% C.R. Same as above, except darker in color.
146	151'		Ore zone, lighter in color 10% C.R.
151	156'		20 % C.R. Platy ore structure broken.
156	161'		Broken up country general ore zone. 20% C.R. Low in grade. more massive.
161	166'		Same as above.
166	171'		10% Same as above. Platy structure.
171	176'		Alteration at 171' to schistosed ore structure low in quality. Poor Core recovery.
176	179'		P.C.R. Highly schistosed structure. Bottom of hole.

June 8, 1953.

Memorandum

To: Mr. H. C. Miller, Executive Officer, DMEA Field Team Region III

From: Chief, Mining Division, Region III

Subject: MF-104 - Caranda Corporation - Idm-2457

Enclosed are four copies each of MF-104 form, MF-104A form, narrative report and one copy of daily diamond drill report submitted by J. M. Radda, President of the Caranda Corporation, covering expenses incurred in May under Contract Idm-2457.

You will note that the operator decreased the amount of totals previously reported by the $3150. covered by the error of 100 feet of diamond drilling previously reported. This was explained in a letter from R. B. Holt, Executive Engineer, dated May 28, 1953, which was forwarded to your office by my memorandum of June 1, 1953. My memorandum suggested that disallowance be made of the $3150. from the April MF-104 form. If the April form was paid in its entirety - disallowance of $3150. should be made from the May claim - MF-104 form enclosed.

This form shows that all core drilling has been completed under the contract. It is presumed that the Geological Survey will forward their final report to this office to be submitted with our final report on the project.

Form has been approved for disposition by your office.

A. C. Johnson

Encls.

COPY

CORANDA CORPORATION
386 Race St.
CYpress 3-3391
San Jose, California
May 28, 1953

P. O. Box 1484
Hawthorne, Nevada

Mr. A. C. Johnson
Chief, Mining Division
Region III
Bureau of Mines
P. O. Box 1551
Reno, Nevada

Re: Docket 2512 (Andalusite & corundum
Contract No. IDm-E457

Dear Mr. Johnson,

In checking our April Operator's Unit Cost and Progress Report, form 104-A and Operator(s Monthly Report and Voucher, form 104, I discovered that an error had been made in the accumulative units, and costs to date, which I wish to correct.

On form 104-A, the "Costs to Date" should read $22,655.00 instead of $23,805.00 and the "Units to Date" should read 1970 instead of 2070. On form 104 the "Totals to Date" should read $22,655.00 instead of $23,805.00. No other errors were found in the monthly units and costs reported so no other correction needs to be made.

Would you please make note of the above correction and notify any other persons or offices that are concerned with this matter.

Yours sincerely

CORANDA CORPORATION
/s/ R. B. Holt
by R. B. Holt
Executive Engineer

RBH/bg

DEPARTMENT OF INTERIOR
BUREAU OF MINES
REGION III
RECEIVED

1973 JUN 2 PM 2:11

SAN FRANCISCO, CALIFORNIA

Form MF-10a (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 April 1953 Docket No. DMEA 3 2512 Contract No. DMS 457

Operator's Name Corenda Corporation Contract Andalusite and Graphite

Address 386 Race Street, San Jose, California Minerals

Contract Amount, $ 36,000.00 Government Participation: 90 % Amount, $ 32,400.00

ITEMS OF COSTS	FOR OPERATOR'S USE: Monthly Total	Totals Previously Reported	Totals To Date	FOR GOVERNMENT USE ONLY: Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent / Short Form Contracts:						
Drilling						
Bulldozing						
Crosscutting	6,359.50	17,445.50	23,805.00			
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):						
			23,805.00			
TOTALS	6,359.50	17,445.50	23,805.00			

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

Date May 25 1953 *Payee Corenda Corporation

Per Y. H. Rodela Title President

*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:

$ 5723.55

Signature Lloyd K. Sjolander
Authorized Certifying Officer
(Authorized Certifying Officer)

Date JUN 1 1953 Vou. No. SF-DMEA-43

(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 R. C. Johnson Title ..... Date .....

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature H. C. Miller Title Executive Officer DMEA Field Team Date May 14, 1953

H. C. Miller Region III

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 April 195 3 Docket No. DMEA 2532 Contract No. IDME 457

Operator's Name Corando Corporation Minerals Andalusite

Address 386 Reco Street, San Jose, California and Corundum

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	1 Ft.	6,395.50	553	23,805.00	2070	23,805.00	1600	11.60
Churn								
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails								
TOTAL DISTRIBUTED COSTS								TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS								

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 May 6, 1953 Operator Corando Corporation

Per J. H. Redds Title President

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

Cosanda Corporation
336 Race Street
San Jose, California
May 1, 1953

Attachment GA Report 104 and 104A
Contract No. [illegible]-E 457
Docket No. [illegible] 2812

During the month of April 553' of hole was diamond drilled. Three holes were bottomed.

No. 7 Hole on the Green Tale group of claims, 150' to 213', No. 1 hole on the Bismark group of claims, 150' deep, No. 2 Hole, Bismark group of claims, 2[illegible]0' deep, and as of April 30, No. 3 Hole on the Bismark group of claims had been drilled to 80' depth.

Upon the approval of Mr. Jones, Bureau of Mines, Reno, Nevada, No. 3 hole was spotted at a point 50' in a southerly direction and approximately 25' further east thatn No. 1 hole, at a depth of minus 45°, and at a strike North 70° West. No. 3 hole was spotted as originally planned. No. 5 hole has been tentatively spotted 50' in a northerly direction from No. 3 hole and will be drilled from this location if No. 3 hole proves to be successful. If not, a new location will be decided upon in conjunction with the Bureau of Mines, Reno, Nevada.

No. 7 hole on the Green Tale group of claims was continued from 150' and bottomed with a BX size at 213'. Minor ore zones were pierced between the depths of 148' to 204', but were interupted by seams of meta volcanics and waste rock. Generally speaking, the ore was of lower grade and in all probability made up of small replacements in the meta volcanics and or meta andesites. The average footage per working shift was 21'. The drilling rigs and equipment were moved from the Green Tale group of claims to the Bismark group of claims, where two rigs were set up on holes No. 1 and 2, and drilling was started on April 13.

No. 1 hole was spudded in at a point approximately 60' from the lower east edge of the main outcrop and 60' north from the road, and on a strike of North 70° West, and a dip of minus 30°. Ore structure was pierced at 19' and a central ore zone continued to 75', excepting for seams and alterations of quartz or quartz-like materials, and meta volcanics. The ore differed from that found at the Green Tale group of claims in that diaspore and pyrophyllite were found in considerable quantity and with much larger crystal sizing. Another ore zone was pierced at 104' and continued 125'. The bottom of the hole ended in highly altered meta andesites with solfatoro structures and small seams of montmorite. The average footage for working shift was 19'.

No. 2 hole was spotted in at a point approximately 1[illegible] north of the road [illegible] approximately 400' westerly of the Emerald [illegible], and at a dip of [illegible] and at a dip of minus 80°.

[illegible] ore zone was pierced at 60' which was low grade ore [illegible] average up to 100'. However, several zones of diaspore and other [illegible]-lized sections [illegible] of higher quality. The waste rock was composed of [illegible] and quartzite materials. The ore zone from 100' to 160' appeared [illegible] of good grade with diaspore, halloysite, and pyrophyllite, being most easily identified. The last few feet of the ore zone tapered off into semi micaceous and quartzite materials with a schistose structure. The hole bottomed in black meta volcanics. The average footage per working shift was 11'.

No. 3 hole was started at a point 90' in a northerly direction at right angles to the strike of 1 and 2 holes and approximately 63' east of No. 1 starting point and at a dip of minus 80°. As only 20' of hole has been drilled no information is available for this report.

During a recent visit from Mr. [illegible], Bureau of Mines, [illegible], Nevada, several samples were taken for [illegible] diffraction studies. The results were received in a letter from Mr. [illegible], Chief of Electro-metallurgical Division. The results of the studies are given as follows:

1. Greenish microscopic material crystallized in flower-like rosettes, from the Bismark.
   Pyrophyllite with kaolin and other impurities.

2. & 3. Samples [illegible] were dense kaolin-like material from the Emerald and Green Kaolin.
   Both samples include halloysite.

4. Greyish long prismatic crystal clusters from the Bismark.
   Diaspore.

It is interesting to note that the dense green material found at both the Green Kaolin group of claims and the Bismark group of claims which was formerly identified loosely as sericite, has been positively identified as being halloysite which is an aluminum silicate with the following formula: $Al_2O_3 \cdot 2SiO_2 \cdot nH_2O$. This information is very favorable as halloysite does not contain such fluxing agents as sodium potassium or other alkaline earth which would be detrimental to the commercial use of this ore for refractory usage.

Considerable work and efforts have been made in the chemical analysis of the diamond drill cores in our own laboratories. Previously extensive studies have been made to determine the best methods available for analysis of this type. As is generally known, alumina silicate and silicate rock analysis is one of the most difficult types of analyses known. Adaptions were made from Hillebrand's and Lundell's Standard Reference of silicate rock analysis and the A.S.T.M. methods for refractory mineral analysis. The main difficulty which is always experienced in this type of analysis is determining the correct methods of fusion of samples which differs with each type of silicate rocks. National Bureau of Standard samples were used in

determining the accuracy of the methods. The following list of analyses shows the variance in the alumina content in results of tests of core taken from Hole 5 hole. Three of Standards samples of analysis and two characterization means of Bismark ore are also listed. Although time has not permitted strict duplication of all samples, [illegible] samples run in conjunction with core samples indicates reasonable agreement and accuracy. Specific gravity analysis of the first 5 holes drilled on the Green Gold group of claims are listed below.

CHEMICAL ANALYSIS

Sample No.	% Fe	% I.L.	% SiO_2	% Al_2O_3	% Fe_2O_3	% TiO_2	% CaO	% MgO	% Na_2O	% K_2O
Bureau of Standards 1.		[illegible]	54.79	37.00	2.22		[illegible]	00.42	0.36	1.30
2.			54.22	37.32	2.35		0.25	0.39	0.34	1.27
3.			55.30	37.38	2.41		0.32	0.60	0.41	1.36
4.			57.24	36.50						
Bismark 5-1	0.080	.50	49.25	[illegible]	[illegible]	1.00	Trace		[illegible]	[illegible]
Bismark 5-2	0.090	4.40	30.20	53.20	0.76	0.52	Trace		.32	[illegible]
1-6	0.324	4.33	47.82	45.60	1.36	Trace	0.34		1.00	4.70
2-6	0.380	5.50	50.94	41.22	0.40	Trace	Trace		0.74	3.8
4-6	0.12	0.76	80.82	46.51	0.14	0.49	.05		0.34	1.33
6-6	0.112	2.30	58.12	37.02	0.62	0.40	.05		.33	0.60
5-61	0.110	2.66	62.54	33.30	0.60	0.35	Trace	Trace	0.20	0.16
5-57	0.080	1.63	62.16	34.76	0.44	1.05	.05		.43	.76
5-60	0.035	1.90	56.12	39.78	0.36	0.50				
5-61	0.040	4.10		37.50	0.75	0.58				
5-63	0.11	2.22	55.34	35.65	0.87	0.78				
8-6	0.10	5.06	42.18	53.10	0.86	0.61				
9-6	0.10	3.66	77.54	16.25						
10-6	0.01	3.27	71.34	15.05						
11-6	0.04	3.87	53.02	41.12						

[illegible] CORPORATION
576 [illegible] Street
Ely, Nevada

Specific Gravity Analysis of Diamond Drill Cores from Green Talc Group of Claims.

Note: Specific gravities were performed on skeletonized samples of one half of cores, the remainder being pulped for chemical analysis.

Sample No.	Feet From	Feet To	Specific Gravity	Classification
1-1	21'	27'	2.76	M.V. & Sericite
2-1	27'	34'	2.85	ore
3-1	34'	39'	2.78	ore
4-1	39'	45'	no sample	M.V.-Alsi Min.
5-1	45'	55'	2.82	ore
6-1	55'	65'	2.85	ore
7-1	65'	70'	2.95	ore
8-1	70'	80'	2.86	M.V. Alsi Min.
9-1	80'	90'	2.81	ore
10-1	90'	95'	2.83	ore
11-1	95'	105'	2.81	M. V.
12-1	105'	115'	2.81	
13-1	115'	125'	2.91	M. V.
14-1	125'	135'	2.86	M.V.
15-1	135'	140'	2.76	M. V.
16-1	140'	150'	2.91	ore
17-1	150'	160'		ore
18-1	160'	170'	2.90	ore
19-1	170'	178'	2.78	ore
20-1	178'	185'	2.70	M.V.
21-1	185'	195'	2.76	M.V.
1-2	15'	20'	2.62	Quartzite
2-2	20'	26'	2.70	M. V.
3-2	26'	30'	2.69	Quartzite
4-2	33'	40'	2.76	Schist & Sericite
5-2	40'	45'	2.90	Possible ore
6-2	45'	50'	2.89	quartzite
7-2	50'	65'	2.87	quartzite
8-2	65'	67'		quartzite
9-2	67'	75'		sand & quartzite
10-2	75'	80'		quartzite and M.V.
11-2	80'	88'		schist
12-2	88'	91'	2.69	quartzite & Sericite
13-2	91'	97'		schist and quartzite
14-2	97'	106'	2.76	sericite and schist
15-2	106'	107'	2.68	Sericite and Kaolin
16-2	107'	117'	[illegible]	quartzite
17-2	117'	130'	2.90	ore and sericite
18-2	130'	135'	2.78	ore
19-2	135'	144'	2.78	ore
20-2	144'	145'	2.77	sericite
21-2	14[illegible]'	146'	2.76	M.V.
22-2	146'	151'	2.76	M.V. and ore

Sample No.	Feet From	Feet To	Specific Gravity	Classification
23-2	151'	156'	2.85	M.V.
24-2	156'	164'	2.52	Ore
25-2	164'	170'	2.78	Ore & M.V.
26-2	172'	180'	2.74	Breccia & Alsi
27-2	180'	183'	2.77	M.V. & Min.
28-2	183'	187'	2.84	M.V. & Sericite
29-2	187'	197.5'	2.63	Kaolin & Sericite
30-2	197.5'	205'	2.65	Ore & Quartzite
31-2	205'	213'	2.51	M.V. and Sericite
32-2	213'	221'	2.34	M.V. and Sericite
33-2	221'	230'	2.51	M.V. and Sericite
34-2	230'	237'	2.55	Siliceous & Sericite
35-2	237'	240'	2.54	Alsi & Sericite
36-2	240'	250'	2.62	M.V. & Min.
37-2	250'	261'	2.56	Ore
38-2	261'	255'	2.62	M.V. & Sericite
39-2	255'	257'	2.70	Ore
40-2	257'	263'	2.77	M.V.
41-2	263'	264'	2.34	Ore
42-2	264'	270'	2.34	M.V. & Min.
43-2	270'	280'	2.77	M.V. and Min.
44-2	280'	282'	2.85	M.V. and Min.
45-2	282'	286'	2.30	Min.
1-3	1'	4.5'	2.34	Kaolin & Ore
2-3	4.5'	16'	2.62	Schist
3-3	16'	25'	2.72	Alsi Min.
4-3	25'	33'	2.70	Ore
5-3	33'	41'	2.71	Ore & Quartzite
6-3	41'	47'		Mud and quartzite
7-3	47'	56'	2.62	Quartzite
8-3	56'	66'	2.60	Quartzite
9-3	66'	70'		Mud
10-3	75'	80'		Sandstone
11-3	80'	97'	2.60	Sandstone and Mud
12-3	97'	106'	2.68	Quartzite
13-3	106'	115'	2.60	Quartzite
14-3	115'	125'		Ore
15-3	125'	135'	2.74	Ore
16-3	135'	148'	2.91	M.V. & Sericite
17-3	148'	150.5'	2.34	Ore
18-3	150.5'	163'	2.91	M.V.
19-3	163'	175'	2.38	M.V. & Sericite
20-3	175'	190'	3.0	M.V.
21-3	190'	200'	2.84	M.V.
1-4	3'	10'	2.73	M.V.
2-4	10'	20'	2.73	M.V. and Min.
3-4	20'	30'	2.79	Ore
4-4	30'	40'	2.52	Ore
5-4	40'	48'	2.75	Ore

Sample No.	Feet From	Feet To	Specific Gravity	Classification
6-4	40'	52'	2.88	[illegible]
7-4	52'	55'	2.80	Talc
8-4	55'	60'	2.73	[illegible]
9-4	60'	65'	2.76	[illegible]
10-4	65'	72'	2.70	[illegible]
11-4	72'	76'	2.65	Ore - quartzite
12-4	76'	80'	2.61	Quartzite
13-4	80'	90'		Quartzite
14-4	90'	100'	2.60	Quartzite
15-4	100'	106'	2.67	Quartzite
16-4	110'	115'	2.67	Kaolin & Talc
17-4	115'	125'	2.75	M. V. & Sericite
18-4	125'	135'	2.80	Ore
19-4	135'	145'	2.[illegible]	Ore
20-4	145'	150'	2.87	Ore
21-4	150'	160'	2.90	Ore & Quartzite
22-4	160'	170'	2.80	Ore & Quartzite
23-4	170'	175'	2.71	Ore & Quartzite
24-4	175'	185'	2.74	M. V. & Sericite
25-4	185'	195'	2.64	M. V. & Kaolin
26-4	195'	200'	2.84	M. V. & Sericite
			2.82	
1-5	5'	6.5'		Alluvium
2-5	6.5'	7'	2.79	Mud
3-5	7'	14'	2.83	Ore
4-5	14'	20'	2.80	Ore
5-5	20'	25'		Ore
6-5A	25'	30'	[illegible]	Ore
6-5	30'	32'	[illegible]	Ore
7-5	32'	35'	[illegible]	Ore
8-5	35'	40'	[illegible]	Ore
9-5	40'	45'	[illegible]	Ore
10-5	45'	49'		Ore
11-5	49'	51'		Mud
6-5	51A	60'	2.55	Mud
7-5	60'	64'	2.51	Talc & Ore
8-5	64'	69'	2.70	Ore
9-5	69'	73'		Ore
10-5	73'	83'	2.74	Ore
11-5	83'	88'	2.73	Ore
12-5	88'	98'	2.72	Ore
13-5	98'	108'	2.75	Ore
14-5	108'	117'	2.64	Ore
15-5	117'	122'	2.72	Ore
16-5	124'	127'	2.3[illegible]	Ore
17-5	127'	134'		Quartzite
18-5	134'	144'		Ore & Talc
19-5	144'	154'		Ore and Sericite
20-5	154'	158'		Quartzite
21-5	158'	159'		M. V. & Sericite
22-5	159'	162'		Ore
23-5	162'	169'		Ore
24-5	169'	179'		Ore
25-5	179'	190'		Ore

Sample No.	Feet From	Feet To	Specific Gravity	Classification
26-5	189'	194'		Ma. Va.
27-5	194'	197'		Ma. Va. & Ore
27-5	197'	200'		Ore
28-5	200'	210'		Ore & Schist
29-5	210'	220'		Ma. Va.
30-5	225'	235'		Ma. Va.
31-5	235'	240'		MaVa.
32-5	240'	250'		MaVa.

No. 7 Hole 0-7-K: 30' Tx'-213'

0-5' Meta volcanic, light ground mass to 4'.

4-8' Black siliceous dike altering back to meta volcanic at 5'. 100% C.R. Highly broken up.

8-20' Alternating dark and light ground mass made up of meta volcanics. Mud seam at 15'. 15-20' meta volcanic 80% C. R. Highly broken up.

20-30' Lighter colored meta volcanic to 25'. 25' to 30' very light ground mass, meta volcanic. 60% C.R. Broken up country. Highly altered.

30-40' Meta volcanic, altered; appears somewhat kaolenized. Light ground mass. Highly broken up.

40-45' Same as above. 60% C.R. Highly broken up, highly altered.

45-47' Very highly broken up. Same as above. P.C.R.

47-50' Rock more solid. Light colored meta volcanic. Small seams of hematite, altering to sericite at 48'. 90% C.R.

48-50' Same as above. 90% C.R.

50-53' Sericite to 53' where material changes to meta volcanics and continues to 54' where alteration to sericite occurs; back to dark meta volcanics at 55'. 100% C.R.

55-60' Dark meta volcanics to 56' changing to light ground mass. 90% C.R.

60-65' Lighter colored meta volcanics to 62'. Broken up country for few inches, alterin to dark material blue to blackish color. Suspected corundum, 62-64'. 80% C.R. 64-65', dark blue to black. Hematite seams. Suspected corundum. Somewhat siliceous in appearance. 100% C.R.

65-70' 65-67' same as above, altering to darker meta volcanics. Dark crystals still appearing. 60% C.R.

70-75' Alteration to meta volcanics, changing from dark to light ground mass at 74'.

75-80' Same as above excepting blue cast which appears to contain corundum. Mineralization. 90% C.R.

80-85' Dark meta volcanics changing to lighter ground mass at 83'. 80% C.R., changing to dark meta volcanics at 84' with considerable mineralization. Highly altered.

85-90' Change sharply at 86' to light colored oxidized meta volcanics, highly altered phenocrysts. 70% C.R.

90-95' 80% C.R. Light colored meta volcanics, somewhat broken up.

95-100' 100% C.R. Sericite showing at 96' in light meta volcanics which continues to 97'. Oxidized surfaces. Changes to lighter meta volcanics, considerable mineralization. Core solid. Hematite seams at 100'.

100-105' 100% C.R. Hematite spots and seams in meta volcanics. Light ground mass. Considerable mineralization.

105-110' Meta volcanics with bluish cast. Altering to sericite and Al Si minerals at 107'. General ore zone to 110'. 100% C.R.

110-115' 100% C. R. Continuing general ore zone to 113' where alteration takes place to light colored meta volcanics which continues to 115'.

115-120' Continuing meta volcanics more broken up. Oxidized surfaces. Ground mass changing to dark color at 118'. Continuing meta volcanics to 120'. 80% C.R.

120-125' Continuing meta volcanics lighter in color, somewhat broken. Highly broken up at 125'. 80% C.R.

125-130' Continuing light colored meta volcanics to 126' where alteration to sericite and Al Si minerals takes place. Continues solid to 128' where country is highly broken up. General ore zone. 80% C.R. Alteration at 130' to porous quartzite, greyish cast.

130-135' Continuing porous quartzite to 134' where alteration takes place to light colored meta volcanics. Considerable hematite.

135-140' Continuing meta volcanics. Changing to porous, highly altered material, appearance of kaolin somewhat siliceous. 100% C.R.

140-145' Light colored meta volcanics becoming highly broken. 100% C.R.

145-150'	70% C.R. Seams above. Considerable oxidation. Alteration to AlSi at 148-150'. Rock mass solid 150-155'. Alteration back to meta volcanics at 150'. Light ground mass. 100% C.R.
155-160'	Continuing meta volcanics. Same as above to 156' where alteration takes place to AlSi minerals, which continues to 158' where material becomes marginal, 160'. 100% C.R.
160-165'	AlSi material quits at 160' and material is light colored meta volcanics. Continues to 161' when ore mineralization occurs again, which continues to 165' where ore zone is of good quality. 80% C.R.
165-170'	Ore zone continues to 166' where alteration takes place to meta volcanics. C.C.R.
170-175'	Continuing meta volcanics. 80% C.R.
175-180'	Changing to darker meta volcanics, continuing to 180'. 100% C.R.
180-185'	Same as above. 100% C.R.
185-190'	Some AlSi mineralization at 186' Hematite seams showing in meta volcanics at 186-187'. Meta volcanics continuing bluish cast at 187.5'. 100% C.R.
190-195'	Continuing meta volcanics. Lean ore showing at 192-193', changing back to meta volcanics which continues to 195'. 100% C.R. Dark cast.
195-200'	Continuing dark colored meta volcanics. Some AlSi mineralization. 100% C.R.
200-205'	Same as above to 204' where AlSi mineralization changes to definite ore zone. 100% C.R.
205-210'	Alteration back to meta volcanics at 205' which continues to 210'. 100% C.R.
210-215'	Same as above. 100% C.R.
	Bottom of hole.

Bismark No. 1 180' [illegible] strike I: 700 [illegible]. NX 0-25' [illegible] 50-150'

Core Recovery [illegible] boxes and 7' = $\frac{127}{150}$ x 100 = 85%

0-8' 0-6' meta volcanics and overburden. 6-7' like an clay structure, light ground mass. 7-8' meta volcanics with schistose structure. 25% C.R.

8-14' 8-10': Same as 7-8'. 10-12': meta volcanics, alteration to schist-like structure, dark ground mass. 12-14': meta volcanics with schistose structure. Darker at 14'. Grey-blue in color. 100% C.R.

14-19' Dark blue colored metal volcanics. 14-16': where color changes to grey color, brecciated with schistose structure. Core breaks along planes of the schist. 17-18': andesite structure with some mineralization. Tendency towards brecciation. 18-19': continuing schistose structure lighter in color from 18-19'. 100% C.R. Ore showing 18-19'.

19-23' 19-20': orestructure. 20-23': very pronounced schistose structure. Tendency towards brecciation. Predominant meta volcanics.

23-25' Same as above. At 24.5' some iron stain. 80% C.R.

25-29' 100% C.R. 25-26': broken up schistose structure to 26'. Alteration to mineralization, continuing 26-29'. Ore structure at 28-29'. 100% C.R. Diaspore showing at 29'.

29-34' 29-31': alteration to quartz. Showing indication of diaspore. 31-32': alteration to meta volcanics with considerable hematite stain. Alteration at 32' to ore zone to 34'. 100% C.R.

34-38' Ore zone. Good quality, very small seams or vugs of white quartz. 60% C.R. Core showed difficulty in drilling.

38-43' Quartz-like structure with mineralization. Ore showing through core. 80% C.R. Better quality ore showing at 42'.

43-52' Ore showing to 52'. Some quartzite. Glass-like. 80% C.R.

52-57' Ore showing. Considerable quartz in ore. Solid structure. Minor change at 57'. Oxidized surfaces. 100% C.R.

57-67' Some quartz seams through ore. Good quality ore showing at 63'. Alteration at 64' to quartz. Quartz showing to 67'. Some light colored material similar to feldspar. 70% C.R.

67-68'-67-68' Light colored schist, showing some mineralization. Considerable quartz showing. 67-68' ore quality increasing rapidly. Ore zone. 100% C.R.

68-74' General ore zone. Diaspore showing with some pyrophylite crystals showing. 80% C.R.

74-80' 74-76.5, ore zone alterline to schist. Broken up at 77-80', considerable brecciation. 80% C.R.

80-83' Alteration to light colored meta volcanics with schistose structure. 90% C.R.

83-88' Darker colored meta volcanics at 83' showing alteration of phenocrysts. 40% C.R.

88-91' Same as above except lighter in color. No mineralization. 100% C.R.

91-95' Same as above to excepting quartzite seam at 92'. 80% C.R.

95-97' Dark colored meta volcanics, broken up. 80% C.R.

97-104' dark colored meta volcanics with considerable quartz shot through. Broken up to 98'. Lighter colored meta volcanics. Grey-banded structure. At 100-102. 102-103', clay-like. Plate structure. Light colored changing to highly mineralized Alsi. Ore zone at 104', 70% C.R.

104-109' General ore zone. Somewhat broken up. 90% C.R.

109-115.5' Same as above. 80% C.R.

115.5-120' Ore zone - 117. Less mineralization to 120'. Solid structure to 120'. Some small seams of quartz at 117'. 90% C.R.

120-125' Alteration to meta volcanics at 120' continuing to 122' where alterations take place to pronounced schistose structure. Highly broken up. 100% C.R.

125-150' Highly broken up material to 127'. Schist and clay structure. 127' alteration.

to meta volcanics. Mineralized at 128'. Increasing mineralization to 130'. 100% C.R.

130-135' Soft clay material at 130'. Light buff coloring. Small seams of montmorillonite at 133-134'. 90% C. R.

135-140' Change to Al Cero. Quartz and shale. 10% C. R.

140-145' Chaly meta andesite. Schistose structure. 80% C.R.

145-150' Same as above. 80% C. R.

Bottom of hole.

Bismark No. 2 hole Strike S 70° E Dip 0-45° N
Core Recovery $\frac{188'}{200'}$ x 100 = 94%

0-15'	Overburden. Sand
15-23'	Meta Andesite highly broken up and light grey ground mass with white colored phenocrysts. 60% C.R.
23-27'	Same as above.
27-32'	Schistose structure to 28'. Alteration to sericite to 32'. 40% C.R.
32-37'	Green sericite to 36', broken up. Alteration to light grey meta andesite. Heavy iron stain at 37'. 100% C.R.
37-42'	Light grey andesites with pronounced schistosity. 100% C.R.
42-45'	Same as above with quartz intrusions.
45-48'	Light colored meta andesites with schistose planes nearly parrallel with drill hole. 100% C.R.
48-56'	Same schistosity to 51'. Broken country at 51-56'. Schist. 50% C.R.
56-60'	Solid formation at 56'. Considerable mineralization at 56-60'. Badly broken up from 57-60'. White fine grained material closely resembling texture of Alsi ore. 100% C.R.
60-71'	Continuing high mineralization to 66'. More solid formation. 60% C.R. 66-71' Continuing mineralization. 40% C.R. Broken up. Light ground mass.
71-76'	Lightly sand material appearing to be diaspore. No. C.R.
76-80'	Solid formation. Quartzite with mineralized seams very light colored. 100% C.R.
80-85'	Same as above, with sericite in seams. 100% C.R. Appearance of feldspar.
85-91'	Continuing quartzite. Sericite percentage increasing and at 90' ore zone, 91'. 80% C.R. Broken up at 90-91'.
91-98'	91-95', ore zone. Less mineralization. 90% C.R. More solid formation.
98-101'	Quartzite material, light colored ground mass. Little mineralization. 80% C.R.
101-106'	White colored ground mass. Opaque, very finely crystalline, some sericite. 80% C.R. Appears to be quartzite. Alteration at 106 to mineralization.
106-112'	General ore zone. Diaspore. Some buff colored material. 90% C.R.
112-116'	Ore zone. Very solid core. 100% C.R.
116-121'	Ore zone. 100% C.R.
121-125'	Continuing ore zone, 125'. 100% C.R.
125-130'	Less mineralized in light ground mass to 127'. Ore zone-130'. 80% C.R.
130-134'	Broken up country to 134'. Highly mineralized ore showing in pb ore. 40% C.R.
134-14 '	Mineralized zone up to 140'. Buff colored ground mass. 70% C.R.
140-144'	Ore zone. Light buff in color. 90% C.R.
144-148'	Same as above. 100% C.R.
148-151'	Same as above. Diaspore crystals evident. 100% C.R.
151-156'	Ore zone. 100% C.R.
156-161'	Very broken up ore zone. Poor core recovery. 20% C.R.
161-166'	Poorer quality ore zone. Some intrusion of andesite. Banded structure. 50% C. R. At 165' alteration to andesites with occasional mineralization to 166'.
166-169'	Schistose structure, some mineralization in meta andesites.
169-174'	Same as above. More mineralized. 50% C.R.
174-181'	Meta andesites with zone of quartzite at 176-181'. 40% C.R.
181-191'	Continuing quartzite with some pyrophyllite showing. Some ore showing at 191-196'. Highly broken up. 20% C.R. Some Diaspore showing.
196-200'	Schistose structure at 196. Altering to black metal volcanics. Very poor C.R. 5%.
	Bottom of hole.

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

Budget Bureau No. 42-R1036.3.
Approval expires 6-30-55.

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

ACCOUNTS APR 7 1953

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of March, 1953 Docket No. DMEA 2512 Contract No. IDME-457
Operator's Name Coranda Corporation Minerals Andalusite & Corundum
Address 336 Race St., San Jose, Calif.
Contract Amount, $ 36,000 Government Participation: 90 % Amount, $ 32,400

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						
Bulldozing						
Crosscutting						
Drifting	9752.00	7693.50	17445.50			
(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						

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

Date April 2, 1953 *Payee Coranda Corporation

Per J. H. Robbe Title President

*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:

$ 8776.80

Lloyd H. Sjolander
Authorized Certifying Officer

Signature (Authorized Certifying Officer)

Date APR 10 1953 Vou. No. SF-DMCa-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. I-m-1157 in accordance with the terms of the contract.

Signature R. G. Johnson Title Chief, Mining Div. Region III Date April 3, 1953

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature W. C. Miller Title Executive Officer DMEA Field Team Date April 6, 1953

W. C. Miller Region III

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

ACCOUNTS APR 7 1953

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of March 195 3 Docket No. DMEA 2518 Contract No. IDMB-257
Operator's Name Corunda Corporation Minerals Andalusite &
Address 386 Race St., San Jose, Calif. Corundum

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	1 ft.	9752.00	868	17,445.50	1517	17445.50	2800	11.50
Churn								
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails								
TOTAL DISTRIBUTED COSTS								TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS								

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.

REMARKS:

Date April 2, 1953 Operator Corunda Corporation

Per J. H. Radda Title President

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)

(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

Cerrado Corporation
336 Bass Street
San Jose, California
April 1, 1953

Attachment to Report 104 and 104A
Contract No. ID-E 467
Docket No. DKEA 2612

During the month of March, 849 feet of hole was diamond drilled, three holes were bottomed, No. 1 hole 208 feet deep, No. 4 hole 200 feet deep, No. 5 hole 250 feet deep, and No. 6 hole 245 feet deep. No. 7 hole has been drilled to a depth of 180 feet deep as of March 31st.

Upon the approval of Mr. Johnson, Bureau of Mines, Reno, Nevada, the remaining footage of the 1800 feet allotted and not used in the first five holes, was split into two holes, numbers 6 and 7, respectively. The accompanying map with the original report gives the relative positions of the holes and the progress made to date.

No. 1 hole was drilled with an EX size bit to 41 feet, 41 to 160 feet BX and 160 to 208 feet AX and at an angle of minus 80°. No ore was contacted for the first 26 feet after which a general ore zone was found to exist down to 100 feet. This zone was interrupted by zones of meta volcanics and was found broken.

Another general ore zone was found between 140 and 160 feet which was found quite similar to the preceding ore zone. The remainder of the hole continued to be made up of meta volcanics and waste rock. The average footage per working shift was 11.1 feet.

No. 4 hole was finished (55 - 200 feet) with a BX size bit and at an angle of dip of minus 80°. A low grade ore zone was contacted at 20 feet which continued to 65 feet and another ore zone of better quality was contacted at 125 feet, which continued to 165 feet. The begin of No. 4 hole is such that it essentially connects with hole No. 6, which was drilled from the opposite side. The average footage per working shift was found to be 8.1 feet.

No. 5 hole which was continued from 85 feet was drilled to a depth of 210 feet with a BX size bit and finished to a depth of 250 feet with an AX size bit and at an angle of dip of minus 80°.

The ore zone which was contacted at the early part of the hole continued on through 86 feet down to 139 feet with minor zones of meta volcanics and a general decreasing in the quality of the ore. The ore zones were found to be quite shattered and broken up. Meta volcanics and minor mineralization zones were found to exist for the remainder of the hole. The average footage per working shift was found to be 9.7 feet.

No. 6 hole was drilled with an EX size bit to a depth of 71 feet and BX size for the remainder of the hole, namely, 245 feet deep. No. 6 hole followed the general trend of No. 5 hole and apparently extends the ore lense considerably. The ore zone was contacted at eight feet and generally continued to 170 feet; however, considerably more interruption of waste material was found to exist, particularly so near the bottom of the zone, as was found in No. 5 hole. Several zones were found which showed considerable corundum. The average footage per working shift was 15.2 feet.

No. 7 hole was drilled with NX size bit to a depth of 24 feet, and BX size to 150 feet which had been drilled as of March 31st. The angle of dip of the hole was set a minus 30°.

To date, the rock that has been drilled has been found to be made up of andesites or meta volcanics with minor inclusions of sericite and aluminum silicate minerals. The hole was laid out on a bearing to cross out a large outcrop of ore which exists on the ground surface.

The drilling speed has increased slightly during the last month and quite markedly during the last week.

Generally, all holes have had to be cemented daily and ultimately cased to depths near the bottom of the holes.

Specific gravities have been run on the ore zone found in No. 5 hole and a range from 2.75 to 2.96 was found which, from part physical and chemical analysis, indicates a range of 30 - 45% alumina. Silica analysis on several samples from No. 5 hole ranged from 30 - 66%. The aluminum and other chemical components are being determined with rechecking before reporting.

One-half of the split core for the first five holes have been skeletonized and the remainder pulverized, quartered and bottled for analysis. The other half has been boxed and delivered to the Reno Bureau of Mines soil library. Pulp samples have also been delivered to the above named place.

Blowout drill log hole #2

Shot

From	To	Mesh	Description
[illegible]	105		Meta Volcanics, dark green mass 20% C. F. colored acid.
105	110		Some carbonate - lighter green zone - considerable shear action or slate like structure. 70% C. F.
110	115		70% C. F. Meta volcanics
115	120		115'-117' lighter green mass porphyritic structure. 117'-120' feldspar crystals altered to sericite. 70% C. F.
120	125		Darker green mass, meta volcanics 60%. More broken up.
125	130		Same as above.
130	135		80% C. F. Same as above.
135	140		70% C. F. Same as above. Altering to 100% sericite.
140	145		Sericite with Al-Si block inclusion about 20% C. F.
145-	150		Highly broken up zone as above.
150	155		Same as above.
155	160		Highly broken sericite zone changing to red zone.
160	165	47	No core recovery - changed to Al drill core at 160'.
165	170		Ore zone - dark inclusions - highly broken up 80% C. F.
170	175		80% C. F. Light green mass sericite Al-Si showing
175	180		80% C. F. Same as above showing inclusions.
180	185		Sericite zone as above altering to chlorite or meta volcanics 170-190.
185	190		80% C. F. Highly broken up country-meta volcanics, considerable Al-Si showing.
190	195		80% C. F. Light colored meta volcanics.
195	195		Red ocher - 80% C. F.
195			No core recovery - red ocher.
200	208		100% C. F. dark colored meta volcanics - highly silicified - scattered sulfides showing. Bottom of hole.

Project No. [illegible]-Gold
Contract No. [illegible]

Diamond Drill Log - Hole #6

Feet From	Feet To	Size	Description
0	5	[illegible]	Overburden
5	8	[illegible]	Meta volcanics - dark green schist. Fine crystal structure, black in color. Dense, dark grained basalt C. C.
8	10	[illegible]	Same as above C. F.
10	15	[illegible]	Same except more broken up at 14' - 15' C. C.
15	17	[illegible]	Lighter ground mass - alteration place at 17' B. C.
17	20	[illegible]	Lighter ground mass - bearing mineralized at 20' C. C.
20	25	[illegible]	Peering highly mineralized at 24' - inclusions of pyrite in light ground mass, hematite
25	30	[illegible]	Same as above
30	35		Mineralized zone bearing darker in color
35	40		Low grade ore - some pyrite and hematite incl. along bearing more mineralized 100% C. R.
40	42		Ore Zone C. C. F.
42	48		Lower grade ore zone
48	50		Bearing siliceous - darker ground mass- hematite inclusions
50	52		Same as above but with purplish cast - silicified mineralization (silicate 50% C. R. broken up)
52	55		Broken up country - oxidized inclusions of talc. 50% C. F.
55	60		Low grade mineralization, foliate structure 30% F. Brecciation are visible shot through, light ground mass - meta volcanics
60	65		Broken up country - Iron inclusions at 60' - hematite oxidized quartz - some mineralization. Cement or shale at 64' lighter ground mass - brecciated 50% C. F. 68' meta volcanics - showing mineralization 50'
65	70		Same as above
70	75		Light ground mass, meta volcanic hematite carbo - mineralization. Some inclusionation.
75	76		60% C. F. light colored ground mass - silicified. Mineralization are some. Manganese - 76'. Sandstone structure light ground mass.
76	80		Quartzite. Broken up 40% C. F.
80	85		10% C. F. Red scale - interrupting
85			Iron sulphide - quartzite - purplish cast - tinge. 85' oxidized siliceous.
85	90		Same as above
90	95		Same as above 60% C. F.

Docket No. [illegible]-2612
Contract, No. [illegible]

Diamond Drill Log - Hole #4

Zone

From	To	Size	Description
95	100	[illegible]	Quartzite showing sulfide - 60% C. R. oxidized zone.
100	105		85% C. R. broken up quartzite showing considerable iron oxidization.
105	110		No C. R.
110	115		10% C. R. kaolin or talc-like material.
115	120		Meta volcanics, sericite inclusions showing at 118' becoming increasing mineralized with sericite 70% C. R.
120	125		Sandy arkosic altering to meta volcanics, altering to sericite at 123' 60% C. R. becoming mineralized at 123' - General ore zone.
125 to 130			Ore zone. Al-Si - sericite feldspar.
130	135		Same as above.
135	140		7. R. 50% ore zone corundum seams showing. Good ore.
140	145		90% C. R. Good ore zone.
145	150		Same as above except darker ground zone.
150	155		Al-Si altering to meta volcanics - dark ground zone.
155	160		Highly siliceous material changing from dark to light ground zone.
160	165		Altered to Al-Si ore zone at 160' 160-165 ore zone.
165	170		Ore zone 100% C. R. altering to meta andesite. Some mineralization.
170	175		Same as above.
175	180		Meta andesite - highly brecciated light ground mass with dark phenocrysts. 100% C. R.
180	185		Same as above - sericite showing 185'.
190	195		Meta andesite dark ground mass.
195	200		Same as above 80% C. R.
200	205		Same as above 195' altering to kaolinized structure 80% C. R.
205	200		Same as above - some mineralization at 197' becoming more broken up. Sericite showing at 198' Bottom of hole.

Docket No. [illegible]-2618
Contract No. [illegible]-2067

Diamond Drill Log - Hole #5

Feet

From	To	Size	Description
19	51	5½-5⅞"	Mud zone
51	55		Same as above
55	57'5		White talc - becoming mineralized
57'5	63		Mineralized ore zone, light buff ground mass C. G. R.
63	68		General ore zone broken up at 63'
68	73		Not so fractured at 71'. Becoming broken up at 72'
			Light buff ground mass - ore zone.
73	75		General ore zone - more sericitic inclusions
75	88		75-80' broken up ore zone - mud seam to 88'. Clay
			and talc C. G. R.
88	95		Ore zone - broken up
95	99		Ore zone - less broken up. Light buff ground mass -
			becoming more sericitic.
99	100		Ore zone - sericite inclusions
100	106		F. G. R. Ore zone - Carbonate showing quite strongly
106	110		F. G. R. Precipitated ore zone
110	117		50% G. F. General ore zone - Solid
117	122		Broken up material ore zone
122	124		Ore zone solid

Project [illegible]
Contract No. [illegible]

Diamond Drill Log Hole #3

Feet From	To	Size	Description
124	127		Quartzite, pyrite scattered pyrite on fresh surface and some oxidation. Alteration at 127' to kaolinization.
127	129		General ore zone - not highly mineralized 20% C. P.
129	132		Highly kaolinized showing Al-Si inclusions. Solid ore.
132	134		General ore zone - showing trends inclusionation. Solid ore. 30% C. P.
134	137		Ore zone. Well mineralized. Solid ore zone. 60% C. P.
139	144		Highly broken up ore zone. Sericite inclusions 50% C. P.
144	149		20% C. P. Same as above.
149	154		40% C. P. Same as above showing well kaolinized and altering to quartzite at 154'
154	156		Quartzite, silicized zones, altered to light green sericite, highly broken up.
156	159		Sericite inclusions in dark ground zone. Zone quartzite or quartz broken up altering the mineralization 153'-160' Solid ore zone - green sericite inclusions showing highly broken up. 60% C. P.
159	162		Highly broken up ore zone. 80% C. P.
162	164		75% C. P. Same as above.
164	169		75% C. P. Highly broken up ore zone - planes of rota volcanics intermixed.
169	174		Solid ore zone - considerable sericite-included. 70% C. P. Small amounts of rota volcanics in veins.
174	179		100% C. P. Highly broken up ore zone - showing shear planes. Some dark masses included.
179	184		40% C. P. Same as above.
184	189		Crushed zone - some ore showing. Sandy structure.
189	194		Altered rota volcanics 80% C. P. Sandy clays and and appearance on cutting. Considerable kaolinization Alteration to low grade ore.
194	197		Highly broken up low grade ore zone. 30% C. P. Some rota volcanics & calcite inclusions.
197	209		10% C. P. Highly broken up ore zone - sericite inclusion and rota volcanics.
209	219		Same as above except highly altered and turning to a schistose structure. 10% C. P.
219	219		Highly broken up rota volcanics - dark green and grey.
219	229		Same as above except light green ground mass.
229	239		Rota volcanics - highly broken up very siliceous.
239	249		Rota volcanics - highly kaolinized - pyritic and oxidized zones.
249	249		Same as above.
249	259		Same as above.

Project No. M 21-2818
Contract No. Idm-0657

Diamond Drill Log Hole #3
0 - 71' NX 71' - 345' BX
Angle of Dip - 30'

Feet From	To	Size	Description
0	5		Overburden
5	8		Quartzite boulder at 5'; broken up condition at 6.5' meta andesites, somewhat brecciated with sericite and AlSi mineralization. Country highly broken up at 7'. Highly mineralized with sericite. Core inclusions 100% C.R.
8	10		Same as above except kaolinized structure. Becoming more mineralized with AlSi and corundum. General ore zone 100% C.R.
10	15		Ore zone, showing corundum and AlSi, some dark inclusions and sericite. Small seam of meta volcanics at 16-17', 100% C.R., broken up zone at 19' 19.5 - 20 meta volcanics
20	25		Meta volcanics, dark ground mass, solid structure, broken up seam at 25 small inclusion of sericite.
25	29		Meta volcanics, dark ground mass, solid structure to 27'. Broken up zone from 27 - 29' altering to sericite and AlSi with inclusion of quartzite - 85% C.R.
29	33		Sericite structure and AlSi minerals. Mineralization increasing. Small seam of broken up country at 30', 100% C.R. Alteration to meta andesites at 31'. Alteration to AlSi ore mineralization at 33'.
33	37		General ore zone with some andesites at 33-35', broken up at 37'-38. 90% C.R.
37	43		90% C.R. General ore zone, broken up 38-41'.
43	48		43-44.5 ore zone, highly kaolinized, 44.5' - 48', meta andesite, light ground mass, small specks of manganese, becoming highly broken up and soft at 48', kaolinized.
48	54		Kaolinized structure light ground mass, highly broken up becoming more oxidized R.C.R. 20%.
54	59		Highly broken up to 58', seams of hematite and sericite in andesite. Light ground mass 55-59' 20% C.R.
59	65		Meta andesite to 60', alteration to sericite and AlSi. General ore zone.
65	71		General ore to 70' altering to more siliceous material to 71'. 100% C.R.
71	76		Change at 71' to general ore zone. Increasing corundum showing. 100% C.R.
76	81		Ore zone becoming more coarsely crystalized. Siliceous in appearance.
81	86		Highly broken up andesites, light ground mass to 80', highly oxidized faces. Ground mass changes markedly to dark color, volcanics. 20% C.R.
86	90		Meta volcanics, dark ground mass. 80% C.R.
90	91		Same as above

Docket No. D[illegible]-[illegible]
Contract No. [illegible]-[illegible] - Depth

Diamond Drill Log Hole #6
0 - 71' NX 71' - 242' NX
Angle of Dip - 80'

Feet From	Feet To	Size	Description
83	96		Highly broken up ore zone, no apparent change in strength to indicate alteration zone. 82-86' ore zone solid, sericite inclusions 100% C.R.
96	99		96-98' ore, altering to meta volcanics, alternating dark ground mass for few inches, then light ground mass to 99. 100% C.R.
99	105		Meta volcanics dark ground mass with light patches 100% C.R.
105	110		105-109' same as above altering to sericite mineralization. Highly broken up to 110'. 70% C.R.
110	114		Ore zone to 114' where rock is becoming quartzitic. 90% C.R.
114	120		Broken up at 114', altering to general ore zone, quite siliceous to 120'. 100% C.R.
120	125		General ore zone same as above excepting rock more solid 100% C.R.
125	130		General ore zone. 100% C.R.
130	136		Same as above, 100% C.R.
136	138		Same as above, 100% C.R.
138	146		Same as above, alteration at 146 to meta volcanics with [illegible] Alki shot through, dark ground mass.
146	150		Alteration from meta volcanics at 147 to general ore zone, darker in color. 100% C.R.
150	154		Ore zone to 153' where alteration takes place to quartzite with ore shot through to 154'. 100% C.R.
154	161		Quartzite with streaks of Alki mineralization to 158'. 158' ore zone to 161, 90% C.R.
161	164		General ore zone, seam of hematite with ore shot through at 163'. 100% C.R.
164	170		Alteration to meta volcanics at 164', dark ground mass to 170' where sericite inclusions occur, highly broken up at 171'. 80% C.R.
171	176		Meta volcanics with small inclusions of sericite, F.C.D. 10%.
176	178		Same as above, F.C.D. 10%.
178	180		Alteration to Alki of sericite at 180', F.C.D. 20% highly broken up.
180	191		Alteration to meta andesites at 190', becoming increasingly darker with phenocrysts becoming frequent, 100% C.R.
191	197		Meta volcanics, dark ground mass, highly broken up from 195 - 197'.
197	201		Same as above, faces oxidized, highly broken up, F.C.D 10%, some sericite inclusions.
201	203		Highly siliceous meta volcanics highly broken up, 20% C.R.
203	208		Same as above, becoming sandy. F.C.D. 20%.
208	212		Meta andesite, lighter ground mass, rock more solid.
212	216		Same as above, 50% C.R.
216	221		Same as above, 50% C.R.
221	226		Same as above, 50% C.R.
226	227.5		Same as above, 95% C.R.
227.5	231		Alteration at 227.5 to Alki continuing to 229 where

Diamond Drill Log Hole [illegible]
[illegible] - [illegible] - 243' [illegible]
Angle of Dip - 30°

Foot

From	To	Size	Description
			where another alteration occurs, with andesites with sericite inclusions to 231, 30% S.P.
231	236		Changing to darker ground mass at 231, faces show oxidation, continuing to 236'.
236	243		Same as above. End of Hole.

DRILL HOLE NO. 7
N. - 20' - W. 20' - E. - 30' - 1637'

Core

From	To	Core	Description
0	5		0 - 4' meta andesites broken up, light ground mass to 6' very dark and finely crystalline meta volcanics 6 - 5' 100% C.R.
5	20		5 - 10' meta andesites lighter ground mass, highly broken up. 10 - 12' sandy, structure changing to more solid rock at 16' continuing to 20'. 30% C. R.
20	30		Meta andesite highly broken up epidote seams - faces at 25', change in color from dark to light. 50% C. R.
30	40		Highly broken up, clay like structure at 35'. Dark colored andesites at 36'. 50% C. R.
40	43		Change in composition to siliceous rock, highly broken up with epidote faces showing. 60% C. R.
43	47		Very broken up, to 47' becoming sandy or loose textured. 30% C. R.
47	50		Altering to light colored andesite with small inclusions of sericite, highly oxidized form at 48', sericite predominant at 48' - 50'. 30% C. R.
50	55		Sericite becoming inclined and broken up, sheared structure at 53', 100% C. R. Alteration at 55' to meta, andesites at clay at 55'.
55	60		Dark meta volcanics at 55 - 56' changing to light colored ground mass which continues through 60' C.C.R.
60	64		Light colored andesites with hematite inclusions to 62' where color of volcanics become dark and texture finely crystalline. C.C.R.
64	70		Dark meta volcanics, finely crystalline structure. 30% C.R.
70	75		Same as above, 50% C.R.
75	80		Same as above except rock more broken up, 100% C.R.
80	90		Meta andesites lighter ground, 60% C.R.
90	95		Same as above becoming more sheared at 95', 60% C. R.
95	100		Sericite inclusions at 95-96' becoming barren andesite to 100'. 100% C.R.
100	105		Meta andesite showing hematite inclusion at 103'. 100% C.R.
105	110		Meta andesites to 107.5 where alteration takes place to sericite and Alkali. 100% C.R.
110	112		General sericite and Alkali zone 100% C.R.
112	115		112-113 same as above altering to meta andesites, light ground mass.
115	120		Meta andesites with dark color change at 118' and back to light ground mass to 120'. 100% C.R.
120	125		Same as above except hematite inclusions at 123'.
125	129		125-127 alteration to sericite and Alkali becoming broken up at 128'. 100% C.R.
129	130		Broken up ore zone altering to finely textured meta andesites which is more solid. 100% C.R.

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

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

ACCOUNTS MAR - 6 1953

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of February, 1953 Docket No. DMEA [illegible] Contract No. [illegible]
Operator's Name Core [illegible] Corporation Minerals [illegible]
Address [illegible] Diego, [illegible]
Contract Amount, $[illegible] Government Participation: [illegible] % Amount, $[illegible]

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	4646.00	3047.50	7693.50			
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	4646.00	3047.50	7693.50			

I certify that the above bill is correct and just and that payment therefor has not been received.
Date Mar. 2, 1953 *Payee Core [illegible] Corporation
Per J. H. Redde Title President

*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:

$4181.40

Lloyd H. Sjolander
Authorized Certifying Officer
Signature
(Authorized Certifying Officer)

Date MAR 16 1953 Vou. No. SF-DMEA-37

(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. [illegible] in accordance with the terms of the contract.

Signature A. C. Johnson Title [illegible] Date [illegible]

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature [illegible] Title Executive Officer DMEA Field Team Region III Date March 5, 1953

H. C. Miller

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.

U. S. GOVERNMENT PRINTING OFFICE 205675

Form MF-104A
(April 1952)

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

ACCOUNTS MAR - 6 1953

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of February 195[illegible] Docket No. DMEA 2512 Contract No. [illegible]457

Operator's Name [illegible] Minerals [illegible]

Address 336 [illegible] St., San Jose, Calif.

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	3 ft.	4046.00	434	7697.53	609	7695.53	2[illegible]	11.53
Churn								
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails								
TOTAL DISTRIBUTED COSTS								TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS								

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 [illegible] Operator [illegible]

Per J. H. Roelofs Title [illegible]

REMARKS:

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)

(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.

U. S. GOVERNMENT PRINTING OFFICE 205676

CORANDA CORPORATION
386 Race Street
San Jose, California

Attachment to Report 104 and 104A
Contract No. IDMS 457
Docket No. DMEA 2512

During the month of Feb., 404 feet of diamond drilling was performed. two holes were bottomed, No. 2 hole 286 feet deep, No3 hole 200 feet deep. No 2 hole was allowed to be drilled 86 feet deeper as a gossan zone was evident and was stopped upon entering waste rock. No 3 hole was stopped as no general ore zone was evident at 200 feet. No 5 hole was spotted equidistant and opposite No. 2 and No. 3 hole at an angle of 50°, as jointly agreed by the DMEA field team and Coranda Corp. No. 1 hole was spotted opposite the map position upon approval of Mr. Jones, Bureau of Mines, Reno, Nev. No 4 hole was spotted as originally spotted on the map.

No. 5 hole has been drilled to a depth of 87 feet. An ore zone was struck at 6 feet and continued to 49 feet where a mud seam occurred for a few feet after which ore was reentered and has been continuing to date. No. 1 hole has picked up float but most of the drilling has been in overburden. No. 4 hole picked bed rock immediately and struck ore which continued to approximately 40 feet. Total depth 55 feet. Specific gravity check on ore taken from No. 5 hole on typical ore showed a 2.84 and 2.92 on two samples taken at random which according to other analysis and experience would indicate a 40% al zinc content.

Drilling progressed at a rate of 9.5 feet per day on No. 3 hole, 9.1 feet per day on No. 2 hole, 12.1 feet per day on No. 5 hole and 12.2 feet per day on No.1hole, and 11 feet per day on No. 4 hole.

A third diamond drill, Sullivan 22 was set up and started in operation on Feb. 17. The crew on No. 3 hole helped set up on No. 5 hole and then moved their machine to No. 4 hole spending eight days elapsed days. The crew on No. 2 hole moved to No. 1 position spending four days. A snow storm prevented any work on Feb. 23.

Drilling has been found difficult as cementing and casing has been necessary to keep holes open. Good core recovery has been experienced. Cores are being split in preparation for pulping and analyses. Specific gravity checks and core samples are being taken for petrographic studies.

Fo[redacted]104 (Rev.
[redacted] 1952)

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

ACCOUNTS FEB 16 1953

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of January, 1953 Docket No. DMEA 2512 Contract No. [redacted]-657
Operator's Name Coranda Corporation Minerals Andalusite
Address 330 Race Street, San Jose, Calif.
Contract Amount, $ 30,000 Government Participation: 50 % Amount, $ 32,400

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	3,047.50		3,047.50			
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						

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

Date Feb. 2, 1953 *Payee Coranda Corporation

Per J. H. Rodda Title Pres.

*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:

$ 2742.75

Lloyd H. Sylander
Authorized Certifying Officer

Signature
(Authorized Certifying Officer)

Date FEB 24 1953 Vou. No. SF-DMCA-34

(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. [illegible] in accordance with the terms of the contract.

Signature R. C. Johnson Title Chief, Mining Div., Region III Date February 12, 1953.

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature H. C. Miller Title Executive Officer ~~DMEA Field Team~~ Date February 12, 1953

H. C. Miller Region III

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.

U. S. GOVERNMENT PRINTING OFFICE 205675

Form [illegible]104A
(April [illegible]952)

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

ACCOUNTS FEB 16 1953

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of January 1953 Docket No. DMEA 2512 Contract No. [illegible]-457

Operator's Name Coranda Corporation Minerals Andalusite

Address 326 Paco St., San Jose, Calif.

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	1 ft	$3,047.50	265	$3,047.50	265	$3,047.50	2500	$11.50
Churn								
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails								
Total Distributed Costs								Total Costs Authorized by Contract
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc								
Total Costs								

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 Feb. 2, 1953 Operator Coranda Corporation

Per J. H. Rodda Title Pres.

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.

U. S. GOVERNMENT PRINTING OFFICE 205676

CORANDA CORPORATION
386 Race St.
San Jose, Calif.

Attachment to Report Forms 104 and 104A
Contract No. IDME 457
Docket No. DMEA 2512

Diamond drilling exploration was contracted for by the Processed Diamond Bit & Tool Co., 66 Ritch St., San Francisco, California, under contract No. IDME 457 as held by the Coranda Corporation. Two diamond drilling machines and other equipment were moved to the Green Talc group of claims, Hawthorne, Nevada on January 5th 1953. Both rigs were set up and work was started on No. 3 hole Jan. 7th and on No. 2 hole Jan. 8th. Five feet of NX was drilled and cased in No. 3 hole wheras 10 feet of NX size hole was drilled and cased in No. 2 hole.

As of Ja. 31st 265 feet of hole had been diamond drilled, 140 feet of BX size on No. 2 hole, 105 feet of BX and 20 feet of AX size on No. 3 hole. A general ore structure was struck between 120 and 125 feet which has been continuing to date except for minor seams of waste material. Minor ore zones were struck at a shallower depth. No 3 hole was started in an ore face and ore structure remainedfor the first 30 feet after which very soft and broken material was found. A general ore structure was hit again at 115 feet and has been continuing except for minor seams of meta volcanic rock.

Up to the point of piercing the general ore structure drilling was found very difficult. Cementing was performed in both holes but the rock was found to be so badly shattered and broken up that BX casing was reamed down to 110 feet in No. 2 hole and 78 feet in No 3 hole which was later replaced with 105 feet of AX casing. Upon hitting the general ore structure difficulties have been experienced in recovering the water; however in spite of this, drilling has progressed at a better rate.

As noted from the geologic map, the direction of No 2 and 3 holes are at right angles with the general ore strike but form a small acute angle with the dip. At approximatedly 120 feet, No. 2 hole is believed to have contacted the ore structure and followed the contact zone down due to the anlge which is formed between the drill hole and the ore dip. In view of several observations, drilling results and general strike of ore zones, it would be advisable to relocate No. 1 drill hole to the opposite side of the present drilling locations. The maine ore structure is believed to be much more accessible from the opposite side wheras considerable overburden has to be needlessly drilled through from the present locations. It is also believed that serious consideration should be given to the relocation of No. 4 hole to the opposite side as it is quite apparent that much larger ore bodies, which outcrop on the westerly slope, would be cut.

Core analyses and other data will be reported in the next month's report.

GOVERNMENT COPY

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C. 600

CERTIFICATION BY THE UNITED STATES OF AMERICA
OF A DISCOVERY OR DEVELOPMENT UNDER
AN EXPLORATION PROJECT CONTRACT

To: Corunda Corporation
386 Race Street
San Jose, California

Pursuant to the provisions of Exploration Project Contract No. Idm-2457, dated December 5, 1952 (Docket No. DMEA-2512), hereinafter called the "contract" between you and the United States of America, hereinafter called the "Government"; to establish and fix the Government's percentage royalty on production and its lien thereon and on the land described in the contract, the Government considers and therefore certifies that discovery or development from which production may be made has resulted from the exploration work.

The nature of said discovery or development is described broadly or indicated as follows:

Surface diamond drilling has indicated crystalline aluminum silicates in irregular replacement type deposits in meta-volcanics of Knoxlsier formation of the Triassic age. Sufficient data were developed to infer reserves of crystalline aluminum silicates.

THE UNITED STATES OF AMERICA

By C Mittendorf
Administrator, Defense Minerals
Exploration Administration

Dated: APR 23 1954

LGHouk:gad 4/21/54
Copy to: Mr. Irving Gambel, EPS, GSA
Mr. Thayer, 5216 GSA Bldg.
Mr. Hedges, 4604
Admr. R. File
Field Team, Region III
Docket File
Operating Committee
Mr. Johnson
Mr. Chambers
Finance Office
Mr. Houk

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C. 600

Corundum Corporation
326 Race Street
San Jose, California

APR 26 1954

Re: Docket No. DMEA-2512 - Corundum-Andalusite
Green Tale and Diamond Mines
Mineral County, Nevada
Contract No. Idm-2457

Gentlemen:

Transmitted herewith is a Certification of Discovery or Development on Contract No. Idm-2457 on the Green Tale and Diamond Mines, Mineral County, Nevada.

By the terms of the Exploration Project Contract and of the Certification, all production from the property from the date of the Exploration Project Contract, December 5, 1952, is subject to the Government's percentage royalty as set forth in the contract until the sum of $32,400.00 is paid, or until December 5, 1962, whichever occurs first.

Payments should be made to Mr. H. C. Miller, Executive Officer, Defense Minerals Exploration Administration Field Team, Region III, 1012 Flood Building, 870 Market Street, San Francisco 2, California. Checks should be drawn to the Treasurer of the United States. The purchaser should be advised to deduct the royalties from the amount due on each shipment and forward check to the Executive Officer.

Royalty payments to the Government should be accompanied by suitable evidence, such as copies of settlement sheets showing quantity and grade of ore sold, the name of the purchaser, and the price and charges certified to be correct by the purchaser.

You are requested to notify Mr. Miller of any changes in ownership or production rights that may have any effect on the Government's right to its percentage royalty. Also, if production ceases at any time for any extended period, please notify Mr. Miller at six-month intervals that no production has been made.

Sincerely yours,

SIGNED

Administrator

Enclosure

Mr. Hunt
Docket File
Field Team, Region III
Mr. Thayer, 916 Old Bldg.
Operating Committee

Letter signed 4/21/54
Copy to: Adm. R. File
Mr. Johnson
Mr. Hodges, 4604
Mr. Chambers

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

MAY 11 1954

Mr. Irvi[illegible] [illegible]bel, [illegible]ting Director
[illegible]aterials Division
[illegible]mergency Procurement [illegible]ervice
[illegible]eneral [illegible]ervices [illegible]dministration
[illegible]ashington 25, [illegible]

re: Docket [illegible] -2510
[illegible]orundum- [illegible]calusite
Green [illegible]alc & [illegible]ismark [illegible]ines
[illegible]ineral [illegible]ounty, Nevada
Contract [illegible]. [illegible]

Dear [illegible]r. [illegible]urbel:

I [illegible] enclosing one copy of a Certification of Discovery or [illegible]velopment relating to the subject contract.

The exploration contract was signed [illegible]ecember 5, 1952, with the Government participating to the extent of [illegible]0% of [illegible]36,0[illegible], or [illegible]32,40[illegible].[illegible]

The project work was started [illegible]anuary [illegible], 1953, and was completed [illegible]y [illegible], 1953, after the expenditure of [illegible]36,0[illegible].[illegible]0 which is the total accepted cost according to the [illegible]eport of [illegible]eview in lieu of a final audit. The Government paid [illegible]0% of the total accepted cost, or [illegible]32,40[illegible].[illegible].

The project consisted of diamond drilling, core analyses, and ceramic testing. A total of [illegible],[illegible]0 feet of diamond drilling was completed, 1,[illegible] feet being on the Green Talc Claim, and [illegible]0 feet being on the Bismark Claim. The Green Talc property was explored by seven drill holes over an area 410 feet by 420 feet to an average vertical depth of 130 feet in the mineralized formation. The outcrop of the Bismark Group was explored over an area about 180 feet long and 240 feet wide, to a depth of 140 feet below the surface. The deposits explored consist of replacement bodies of alumina-bearing minerals occurring in meta-volcanics in the Excelsior Formation of Triassic age.

The [illegible] concurs with the field [illegible]valuation of the work performed and has certified that a discovery or development has resulted from the work under this contract.

Sincerely yours,

R. D. Mitte[illegible]

Administrator

IGHouk/F[illegible]Johnson/gad/bih 5/11/54
cc to: Docket
Adm. Reading File
Region III (2)
Operating Committee
Mr. Hedges Room 4604
Mr. Thayer Room 5216 GSA
Enc. Mr. Chambers - Mr. Houk - Mr. F[illegible]Johnson

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C. 600

Mr. Irving Gumbel, Acting Director
Materials Division
Emergency Procurement Service
General Services Administration
Washington 25, D. C.

Re: Docket No. DMEA-2512
Corundum-Andalusite
Green Talc and Bismark
mines
Mineral County, Nevada
Contract No. Ion-5457

Dear Mr. Gumbel:

I am enclosing one copy of a Certification of Discovery or Development relating to the subject contract.

The exploration contract was signed December 5, 1952, with the Government participating to the extent of 90% of $36,000.00 or $32,400.00.

The project work was started January 8, 1953, and was completed May 20, 1953, after the expenditure of $36,000.00 which is the total accepted cost according to the Report of Review in lieu of a final audit. The Government paid 90% of the total accepted cost or $32,400.00.

The project consisted of diamond drilling, core analyses and ceramic testing. 2,500 feet of diamond drilling was completed seven holes totaling 1,600 feet on the Green Talc Claim, and five holes totaling 900 feet on the Bismark Claim. Alumina minerals replaced meta-volcanics in the Excelsior formation of Triassic age. The Green Talc property was explored over an area of 410 feet in length, 420 feet in width and penetrating the mineralized formation to an average vertical depth of 150 feet. The outcrop of the Bismark Group was explored over an area of about 180 feet long, 240 feet wide and to a depth of 140 feet below the surface.

The DMEA concurs with the field team evaluation of the work performed and has certified that a discovery or development has resulted from the work under this contract.

Sincerely yours,

C. O. Mittendorf

Administrator

Enclosure

LOHouk:gad 5/5/54

Copy to: Admr. R. File
Docket File
Mr. Johnson
Mr. Chambers
Operating Committee

Field Team, Region III
Mr. Thayer, 5216 GSA Bldg.
Mr. Hedges, 4604
Mr. Houk

Government Copy

DOCKET NO. DMEA-2512

AMENDMENT NO. 2

It is agreed this 2nd day of September, 1953, between the United States of America, acting through the Department of the Interior, Defense Minerals Exploration Administration, and Coranda Corporation, each acting in consideration of the agreement of the other to the terms hereinafter set forth, that Exploration Project Contract Idm-E457, Docket No. DMEA-2512, dated December 5, 1952, and amended May 13, 1953, be further modified and amended as of September 2, 1953, as follows:

Date of completion of the contract is extended two months to November 5, 1953.

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 amount of any item designated as "allowable maximum."

Executed in sextuplicate the day and year first above written.

THE UNITED STATES OF AMERICA

By H. C. Miller
H. C. Miller, Executive Officer
DMEA Field Team, Region III

CORANDA CORPORATION

By J. H. Rodda
President

Robert B. Hall
Secretary

AMENDMENT NO. 2

Docket No. 2512 Mineral Corundum-Andalusite

Exploration Project Contract Idm-E457

Date of Contract December 5, 1952

Date of Amendment September 2, 1953

Operator Coranda Corporation

JUSTIFICATION

In order to allow sufficient time for completion of the analytical work and for preparation of the Operator's final report, a two-month extension to subject contract has been allowed. Accordingly, Amendment No. 2, dated September 2, 1953, establishes the completion date as of November 5, 1953.

H. C. Miller, Executive Officer
DMEA Field Team, Region III

Government's Copy

CORANDA CORPORATION

A CORPORATION DULY ORGANIZED AND EXISTING

UNDER AND BY VIRTUE OF THE LAWS OF THE STATE OF NEVADA

AMENDMENT NO. 1

Contract Idm-E457 (Docket DMEA-2512), dated December 5, 1952, between the United States of America, acting through the Department of the Interior, Defense Minerals Exploration Administration, and Coranda Corporation, is amended as follows:

To the list of "D.D. Holes for South Lens of Green Talc Deposit," given on page 1, of Exhibit "A" to Contract Idm-E457, add the following:

D. D. Hole, Green Talc #7, Size Bx, Length 200 feet, Inclination - 30 deg., Location 118.5 feet N 19 deg. W from D.D. Hole #6.

Total allowable footage (1600 feet) of holes on the Green Talc Deposit, including that of Hole #7 remains unchanged.

This amendment shall not be construed to increase the estimated total cost of the project, the amount of the Government's contribution, or any item of allowable cost which is especially designated "allowable maximum."

Dated May 13, 1953.

UNITED STATES OF AMERICA

By H. C. Miller

H. C. Miller, Executive Officer
DMEA Field Team, Region III

CORANDA CORPORATION

By J. H. Rodda

J. H. Rodda, President

Robert B. Holt

Robert B. Holt, Secretary

DEPARTMENT OF INTERIOR
BUREAU OF MINES
REGION III
RECEIVED

1953 MAY 19 AM 9:02

SAN FRANCISCO, CALIFORNIA

DEPARTMENT OF THE INTERIOR
Bureau of Mines Information
DEC 30
MAY 25 1953

AMENDMENT NO. 1

Docket No. 2512 Mineral Corundum-Andalusite

Exploration Project Contract Idm-E457

Date of Contract December 5, 1952

Date of Amendment May 13, 1953

Operator Coranda Corporation, 386 Race Street, San Jose, California

JUSTIFICATION

Through a misinterpretation of the contract, our field engineer recommended the drilling of a seventh hole on the Green Talc Deposit inasmuch as all allowable footage had not been used in drilling the six stipulated holes. If holes 5 and 6 had been drilled as prescribed to a depth of 350 feet, the additional information obtained would have been of little value as the mineralized structure had been penetrated and it would not be good practice to continue the holes through barren rock solely to use up footage. Therefor the 200 feet saved were used in hole #7 which seemed to be necessary to give the needed information on the deposit. This amendment is drawn to permit the drilling of Hole #7.

H. C. Miller, Executive Officer
DMEA Field Team, Region III

Docket No. [illegible]

Commodity [illegible]

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 [illegible]

Date of Contract or Amendment: [illegible]

Name and Address of Operator:
[illegible]
[illegible]
[illegible]

Amount of Government participation [illegible]

Percent of Government participation [illegible] %

Region: [illegible] State: [illegible]

(Name)

for, [illegible]
Chief, [illegible]
[illegible]

(Title)

Date Delivered to Bureau of Mines, Washington. [illegible] 13908

MF-200 (A)
(February 1952)

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
1952

DOCKET NO. MEA 2512

COMMODITY Corundum-Andalusite

Government's Copy

IDM-E 457

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

EXPLORATION PROJECT CONTRACT[1]

(Short Form)

IT IS AGREED this 5th day of December, 1952, between the United States of America, acting through the Department of the Interior, Defense Minerals Exploration Administration, hereinafter called the "Government," and[2] Coranda Corporation, a corporation duly organized and existing under and by virtue of the laws of the State of Nevada
386 Race Street
San Jose, California

hereinafter called the "Operator," as follows:

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 of Nevada, County of Mineral, described ~~as follows:~~[3] in Annex I.

the Operator represents and undertakes:[4]

(*a*) ~~That the Operator is the owner, in possession and entitled to possession and that the property is subject only to the following claims, liens, or encumbrances, to each of which the subordination agreement of the holder is attached:~~

(*b*) That the Operator is a lessee, in possession and entitled to possession, and the Owner's Consent to Lien 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 90 days from the date of this contract shall commence work on a project of exploration for[5] corundum and andalusite

in or upon the described land; and shall bring the project to completion within a period of 9 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 $32,400.00, which is 90 percent of $36,000.00 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:

(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* _____

Executed in sextuplicate the day and year first above written.

CORANDA CORPORATION

By J. H. Rodda (President)
(Operator)

By Robert B. Hatt (Secretary)

THE UNITED STATES OF AMERICA

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

---

I, Robert B. Hatt certify that I am the secretary of the corporation named as Operator herein; that J. H. Rodda President, 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.

Robert B. Hatt

[CORPORATE SEAL]

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

EXPLORATION PROJECT CONTRACT
CORANDA CORPORATION
DOCKET NO. DMEA-2512

ANNEX I

The property referred to in Article 2 consists of two groups of unpatented lode mining claims known as the Bismark Mine Group and the Green Talc Mine Group, both groups located in the Gillis Range Mining District, Mineral County, Nevada. The notices of location hereinbelow noted are recorded in the Book of Mining Locations in the Office of the County Recorder of Mineral County, Hawthorne, Nevada.

NAME OF CLAIM	FILE NO.	BOOK NO.	PAGE	DATE DISCOVERED	DATE FILED
Green Talc	20,770	8	535	10-5-29	1-3-30
Green Talc No. 1	20,771	8	535	10-5-29	1-3-30
Green Talc No. 2	20,772	8	535) 536)	10-5-29	1-3-30
Green Talc No. 3	21,342	9	17	6-7-30	8-22-30
Green Talc No. 4	21,343	9	17	6-7-30	8-22-30
Alto Mining Claim	32,490	11	578) 579)	6-8-41	6-8-41
Green Talc Extension	32,498	11	587	6-8-41	6-8-41
Maps on above		12	583		
Bismark No. 1	25,323	10	110	7-11-35	9-14-35
Bismark Mine	25,324	10	110	7-11-35	9-14-35

Esther Rea and John Vuich, as Owners of the Green Talc Group of mining claims entered into an option and purchase agreement dated January 1, 1952, with Fred Fulkerson, Robert B. Holt, and J. H. Rodda, which authorized these individuals to go into possession of the Green Talc Group of claims for the purpose of preliminary development work, and Esther Rea, Joe Malatesta, Eugene Ferretti and John Vuich as Owners of the Bismark Group of mining claims entered into an option and purchase agreement dated January 1, 1952, with Fred Fulkerson, Robert B. Holt, and J. H. Rodda, which similarly authorized these individuals to go into possession of the Bismark Group of claims for the purpose of preliminary development work, and these individuals by an instrument dated April 9, 1952, duly assigned all their right,title and interest in and to the two aforesaid option and purchase agreements to Fred Fulkerson, Robert B. Holt, and J. H. Rodda, F. L. DiNapoli, Jos. P. Perrucci, and James F. Boccardo, and these six individuals on April 28, 1952, entered into an operating agreement with the Operator granting the Operator for a term of 25 years the exclusive right to explore, develop, operate, mine and remove concentrates and minerals from the Green Talc and Bismark Groups of claims.

ANNEX I
(cont'd)

The Green Talc and the Bismark Claims before mentioned are indicated on the maps attached hereto and made a part hereof and entitled: "Green Talc Mine Groups of Claims, DMEA-2512;" "Bismark Group, DMEA 2512;" "South Lens of the Green Talc Deposit, DMEA-2512;" and "Bismark Analusite Deposit, DMEA-2512" respectively.

EXPLORATION PROJECT CONTRACT
CORANDA CORPORATION
DOCKET NO. DMEA_2512

EXHIBIT "A"

Description of the Work

The project work will consist of exploring and testing to greater depth with diamond drill holes two outcrops of an aluminum silicate rock containing substantial amounts of the minerals, corundum and andalusite, in the Green Talc and Bismark Mines.

The Green Talc Mine Deposit: The larger of the two outcrops, known as the South Lens of the Green Talc Deposit, is approximately 200 feet wide by 400 feet long, and will be tested by six inclined diamond drill holes totaling 1600 feet.

The pattern or spacing of the individual holes is indicated on the map, Figure 3, attached hereto and made a part hereof and entitled "South Lens of the Green Talc Deposit, Hawthorne, Mineral County, Nevada, DMEA-2512." The holes are listed as follows:

LIST OF D.D. HOLES FOR SOUTH LENS OF GREEN TALC DEPOSIT

D. D. Hole	Size	Length	Inclination	Location
Green Talc #1	Bx	250 ft.	- 25°	See Fig. 3
" " #2	Bx	250 "	- 25°	" Fig. 3
" " #3	Bx	200 "	- 20°	" Fig. 3
" " #4	Bx	200 "	- 20°	" Fig. 3
" " #5	Bx	350 "	To be determined by Field Team	
" " #6	Bx	350 "	" " " " " "	

The Bismark Mine Deposit: The smaller of the two outcrops is known as the Bismark Mine. The west one-half of the Bismark Mine outcrop, an area about 50 feet wide by 150 feet long, is to be explored by 5 diamond drill holes totaling 900 feet.

The spacing of the 5 holes is as indicated on the map, Figure 2, attached hereto and made a part hereof and entitled "Bismark Analusite Deposit, Hawthorne, Mineral County, Nevada." The holes are listed as follows:

LIST OF D. D. HOLES FOR BISMARK ANDALUSITE DEPOSIT

D. D. Hole	Size	Length	Inclination	Location
Bismark #1	Bx	150 ft.	- 30°	See Fig. 2
" #2	Bx	150 "	- 30°	" Fig. 2
" #3	Bx	200 "	- 30°	" Fig. 2
" #4	Bx	200 "	To be determined by Field Team	
" #5	Bx	200 "	" " "	" " "

Deviation from the above pattern or spacing of holes for both the Green Talc and Bismark Mine Deposits may be made provided that the maximum allowable footage is not exceeded, and provided that deviations are first approved by the Executive Officer, DMEA Field Team, Region III.

Preparations of Cores and Samples for Tests: Cores are to be carefully tagged and boxed at the drill sites and holes mapped and logged. The boxed cores are to be shipped to the Bureau of Mines, Reno, Nevada, or such other convenient place for sample preparation as may be decided upon by the DMEA Field Team in consultation with the Operator's project supervisor. The cores are then to be carefully tabulated, sorted, and prepared into the required number of samples for chemical determinations and for cone test samples.

Approximately 250 samples are to be given a Class #3 Analysis, and approximately 50 samples are to receive Pyrometric Equivalent Cone Tests. Analyses and cone tests are to be made by the Pittsburgh Testing Laboratory, or such other laboratory as may be approved by the DMEA Field Team Executive Officer, Region III.

Careful supervision shall be maintained at the drill sites over the drill operations, and over the preparation of samples for distribution and testing. The Operator's supervisors must be approved by the aforenamed Executive Officer. It is estimated that after actual drilling commences, about 6 months will be required to do the work.

Agreed Project Costs

2500 feet diamond drill hole (Bx) @ $11.50 per foot 1/	$28,750.00

1/ This excludes the costs of Class #3 Chemical Analyses and Pyrometric Cone Equivalent Tests which are separately listed, but it includes every other cost.

250 - Class #3 Chemical Analyses @ $25.00 each 2/	$ 6,250.00	
50 - Pyrometric Cone Equivalent Tests @ $20.00 each 3/	1,000.00	
Total Estimated Cost of Project		$36,000.00
Government Participation @ 90%		$32,400.00

2/ The unit here is each analysis

3/ The unit here is each test.

STATE OF NEVADA,

County of Mineral } ss.

On this 24th day of April A. D. one thousand nine hundred and fifty two personally appeared before me, J. J. Connelly a Notary Public in and for the said County of Mineral

Esther Rea, E. Ferretti, Joe Malatesta and John Vuich

known to me to be the persons described in and who executed the foregoing instrument, who acknowledged to me that they executed the same freely and voluntarily and for the uses and purposes therein mentioned.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal at my office in the County of Mineral, the day and year in this certificate first above written.

My Comm. Exp. June 10, 1954

J. J. Connelly

Notary Public in and for the County of Mineral, State of Nevada.

Carlisle's Form No. 34N—(Acknowledgement General)

OWNER'S CONSENT TO LIEN

WHEREAS, the undersigned, as owner, co-owner, lessor, or seller has an interest in certain property in the State of Nevada, County of Mineral, 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 1/ CORANDA CORPORATION, a corporation,

hereinafter called the "Operator"; and

WHEREAS, under certain provisions of said Contract which are set forth on the reverse side hereof, the Government will acquire certain rights and equities which do or may conflict with or be adverse to the interest of the undersigned in said property;

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

1. The Government's equity in and right to remove facilities, buildings, fixtures, and equipment, as provided in the Contract, shall prevail over and be prior and superior to any conflicting or adverse rights of the undersigned.

2. The Government's percentage royalty on net smelter returns or other net proceeds realized from ore, concentrates, or metal produced within ten (10) years from the date of the Contract, and the Government's lien for the payment of said percentage royalty shall attach to the mineral deposit and the production therefrom, in the amount of the Government's contribution, not in excess of 2/ $200,000.00, all upon the terms and conditions set forth in said Contract.

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 the said Contract. This agreement shall be binding upon the heirs, executors, administrators, successors, and assigns of the undersigned.

Dated this 24th day of April, 1962.

Walter Rea
E. Fuerstt
Joe Malatesta
John Vuich

1/ Insert the name of the Operator as it will appear in the Exploration Project Contract.

2/ Insert the maximum amount of the Government's contribution.

10919

RELEVANT CONTRACT PROVISIONS

Title to and disposition of property. All facilities, buildings, fixtures, equipment, or other items costing more than $50 each, paid for or purchased with funds contributed jointly by the Operator and the Government, shall belong to the Operator and the Government jointly, in proportion to their respective contributions, and upon the termination of the contract, if they have any salvage value, shall be disposed of for their joint account unless the Government, in writing, waives its interest in any such items. The Government may require the dismantling, severance from land, and removal of any such items in order to realize its interest in the salvage value thereof, and the cost of any such removal and of the disposal of the items shall be for the joint account of the parties in proportion to their respective interests.

Repayment by Operator. If, upon the completion of the exploration project or termination of the contract, the Government considers that a discovery or development has resulted from the work from which commercial production of ore may be made, the Government, within 6 months thereafter, shall so certify to the Operator, particularly describing and delimiting its estimate of the discovery or the development. Thereafter, if and as ore is produced as a result of such discovery or development, the Operator and his successor in interest shall be and become obligated to pay to the Government a percentage royalty on the net smelter returns or other net proceeds realized from such ore, concentrates, or metal produced within ten (10) years from the date of this contract, until the total amount contributed by the Government, without interest, is fully repaid or said 10 years have elapsed, whichever occurs first, as follows:

> Of net smelter returns or other net proceeds not in excess of eight dollars ($8.00) per ton of ore: One and one-half (1-1/2) percent.
>
> Of net smelter returns or other net proceeds in excess of eight dollars ($8.00) per ton of ore: One and one-half (1-1/2) percent, plus one-half (1/2) percent for each additional full fifty cents ($0.50) in excess of eight dollars ($8.00) per ton of ore, but not in excess of a maximum of five (5) percent.

o

This obligation to repay from net returns or proceeds shall be and remain a claim and lien upon the mineral deposit which is the subject of the exploration project and upon any production resulting from such discovery or development, in favor of the Government, until fully paid, or until said 10-year period has elapsed; and this claim and lien and the Government's right to repayment shall survive any termination of the contract, whether by completion of the exploration project or otherwise. This article is not to be construed as imposing any obligation on the Operator or his successor in interest to produce ore from any such discovery or development.

STATE OF NEVADA.
COUNTY OF MINERAL, SS.

On this 24th day of April A.D. one thousand nine hundred and fifty two, personally appeared before me, J. J. Connelly a Notary Public in and for the said County of Mineral Esther Rea and John Vuich known to me to be the persons described in and who executed the foregoing instrument, who acknowledged to me that they executed the same freely and voluntarily and for the uses and purposes therein mentioned.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal at my office in the County of Mineral, the day and year in this certificate first above written.

J. J. Connelly

J. J. CONNELLY
Notary Public in and for the County of Mineral, State of Nevada.

My Comm. Expires June 10, 1954.

OWNER'S CONSENT TO LIEN

WHEREAS, the undersigned, as owner, co-owner, lessor, or seller has an interest in certain property in the State of Nevada, County of Mineral, 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 1/ Coranda Corporation, a corporation

hereinafter called the "Operator"; and

WHEREAS, under certain provisions of said Contract which are set forth on the reverse side hereof, the Government will acquire certain rights and equities which do or may conflict with or be adverse to the interest of the undersigned in said property;

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

1. The Government's equity in and right to remove facilities, buildings, fixtures, and equipment, as provided in the Contract, shall prevail over and be prior and superior to any conflicting or adverse rights of the undersigned.

2. The Government's percentage royalty on net smelter returns or other net proceeds realized from ore, concentrates, or metal produced within ten (10) years from the date of the Contract, and the Government's lien for the payment of said percentage royalty shall attach to the mineral deposit and the production therefrom, in the amount of the Government's contribution, not in excess of 2/ $ 200,000.00, all upon the terms and conditions set forth in said Contract.

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 the said Contract. This agreement shall be binding upon the heirs, executors, administrators, successors, and assigns of the undersigned.

Dated this 24th day of April, 1952.

Esther Rose

John Veich

1/ Insert the name of the Operator as it will appear in the Exploration Project Contract.

2/ Insert the maximum amount of the Government's contribution.

10919

RELEVANT CONTRACT PROVISIONS

Title to and disposition of property. All facilities, buildings, fixtures, equipment, or other items costing more than $50 each, paid for or purchased with funds contributed jointly by the Operator and the Government, shall belong to the Operator and the Government jointly, in proportion to their respective contributions, and upon the termination of the contract, if they have any salvage value, shall be disposed of for their joint account unless the Government, in writing, waives its interest in any such items. The Government may require the dismantling, severance from land, and removal of any such items in order to realize its interest in the salvage value thereof, and the cost of any such removal and of the disposal of the items shall be for the joint account of the parties in proportion to their respective interests.

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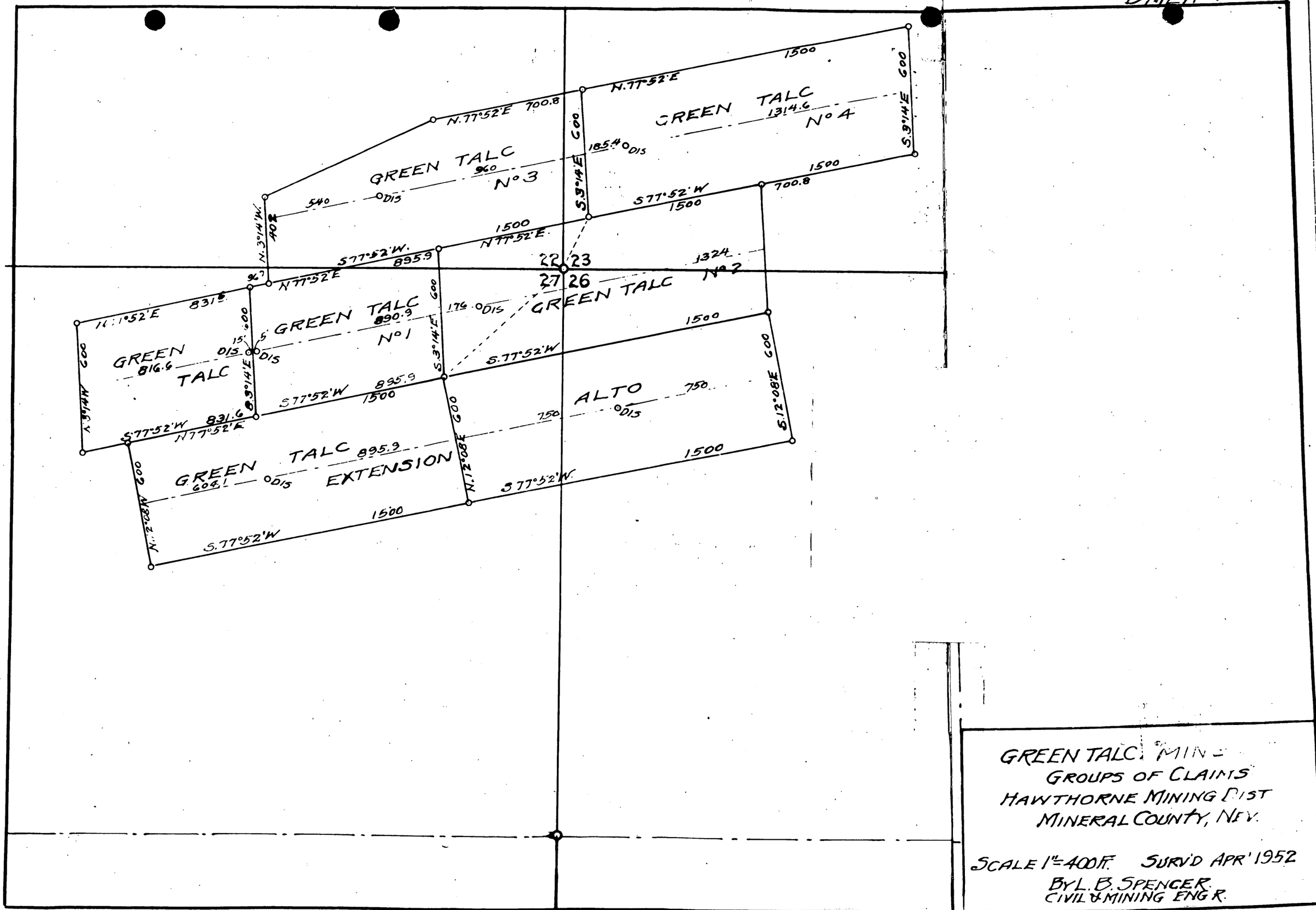
> Of net smelter returns or other net proceeds not in excess of eight dollars ($8.00) per ton of ore: One and one-half (1-1/2) percent.
>
> Of net smelter returns or other net proceeds in excess of eight dollars ($8.00) per ton of ore: One and one-half (1-1/2) percent, plus one-half (1/2) percent for each additional full fifty cents ($0.50) in excess of eight dollars ($8.00) per ton of ore, but not in excess of a maximum of five (5) percent.

This obligation to repay from net returns or proceeds shall be and remain a claim and lien upon the mineral deposit which is the subject of the exploration project and upon any production resulting from such discovery or development, in favor of the Government, until fully paid, or until said 10-year period has elapsed; and this claim and lien and the Government's right to repayment shall survive any termination of the contract, whether by completion of the exploration project or otherwise. This article is not to be construed as imposing any obligation on the Operator or his successor in interest to produce ore from any such discovery or development.

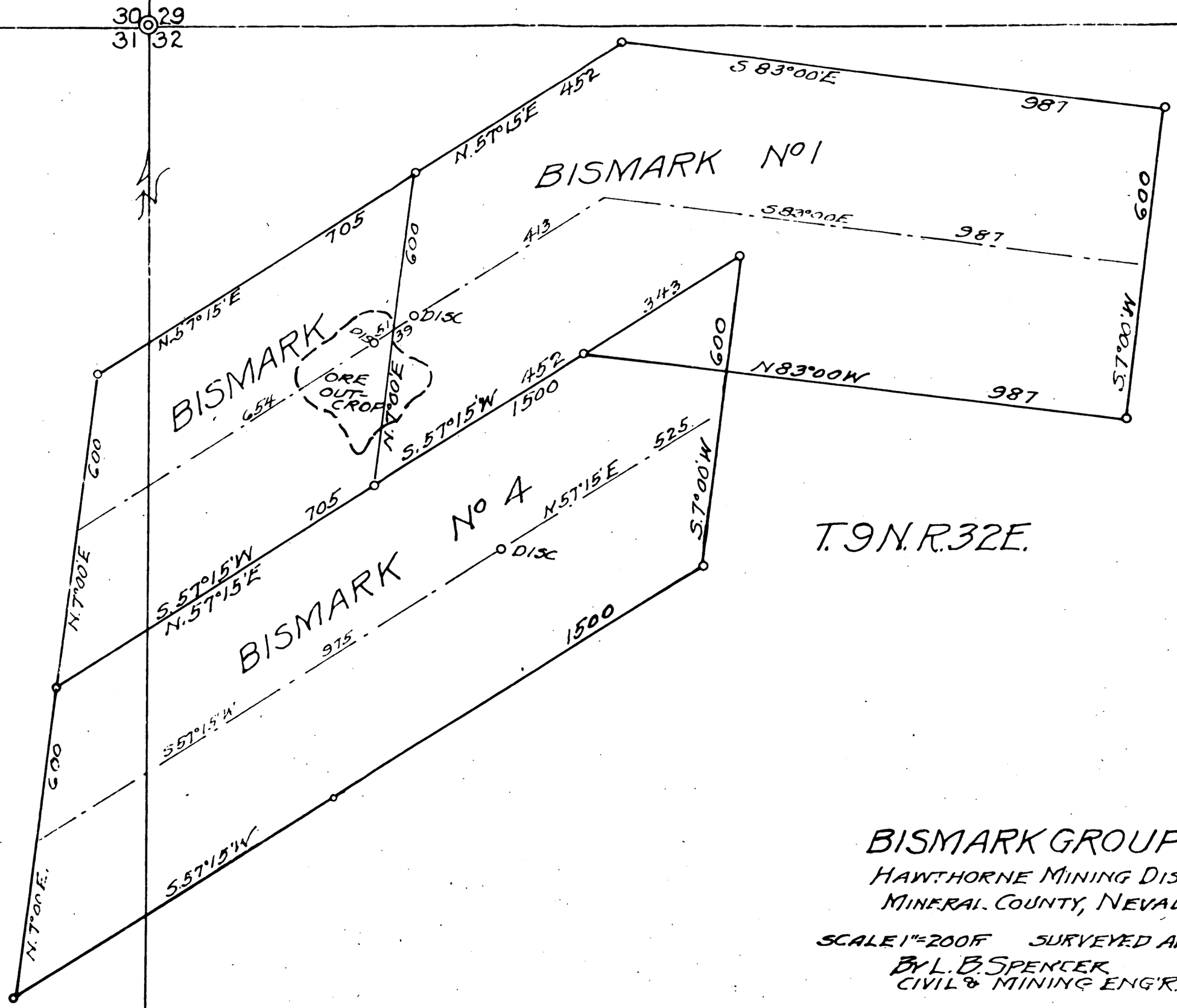
DMEA-2512



GREEN TALC MINE
GROUPS OF CLAIMS
HAWTHORNE MINING DIST
MINERAL COUNTY, NEV.

SCALE 1" = 400 FT. SURV'D APR' 1952
BY L. B. SPENCER
CIVIL & MINING ENG'R.

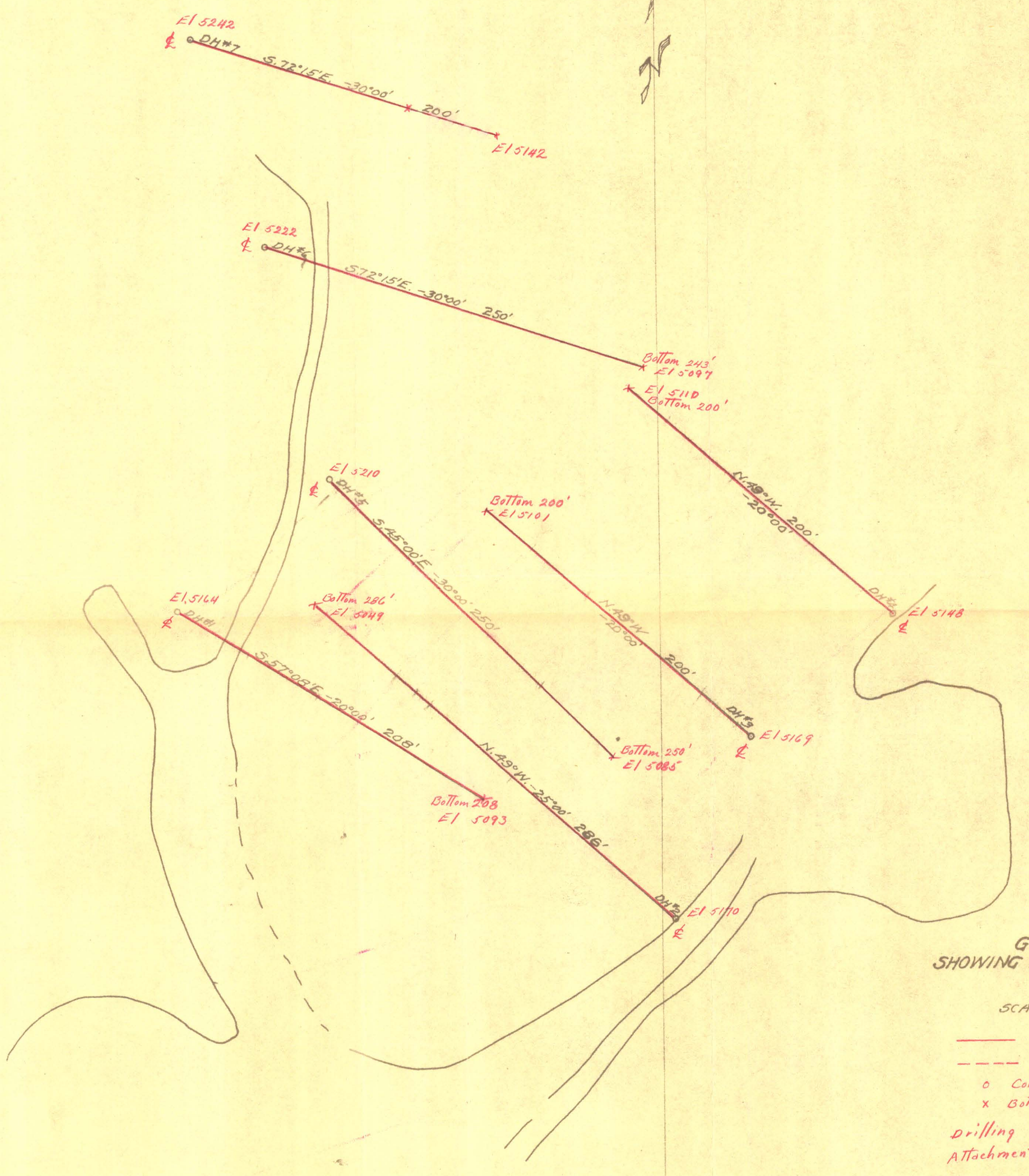
DMEA - 251E



T.9N.R.32E.

BISMARK GROUP
HAWTHORNE MINING DIST.
MINERAL COUNTY, NEVADA

SCALE 1"=200FT SURVEYED APR. '52
BY L. B. SPENCER
CIVIL & MINING ENG'R.



GREEN TALC MINE
SHOWING D.D. HOLES LOCATIONS

SUR. BY L.B.S.

SCALE 1" = 40 ft

——— Drilled Hole

– – – – Footage Not Drilled

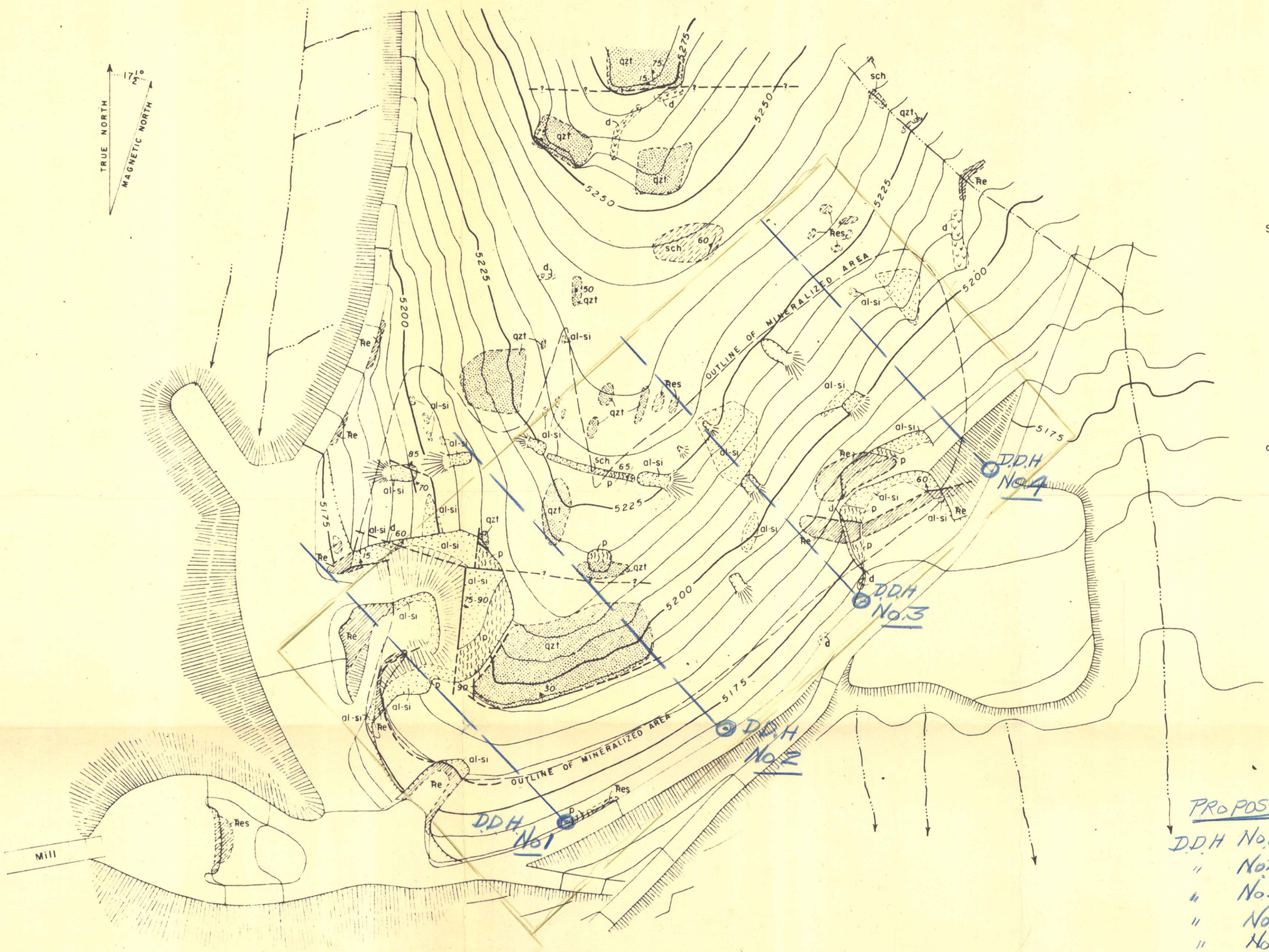
o Collar Elev.

x Bottom Elev.

Drilling Progress Map
Attachment To Monthly Progress Report 104 & 104A

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

DMEA-2512



EXPLANATION

- Cover
- qzt — Quartzite
- Re — Metavolcanic rocks, principally meta-andesite
- Res — Silicified metavolcanic rocks
- sch — Schist
- d — Diabase(?)
- p — Green micas, possibly containing pyrophyllite
- al-si — Fine-grained quartz, in part containing aluminum silicate minerals and corundum
- Contact (Dashed where approximately located)
- 60 — Fault, showing dip (Dashed where inferred)
- 90 — Vertical fault
- ? — Probable fault
- 60 — Strike and dip of foliation
- 50 — Strike and dip of joints
- Trench or open cut
- Dump

PROPOSED HOLES

D.D.H	No.1	250'	-25°
"	No.2	250'	-25°
"	No.3	200'	-20°
"	No.4	200'	-20°
"	No.5	350'	?
"	No.6	350'	?
Total		1600 ft	

Topography by H. L. Sobel, July 1952

Geology by A. J. Bodenlos, July 1952

Figure 3

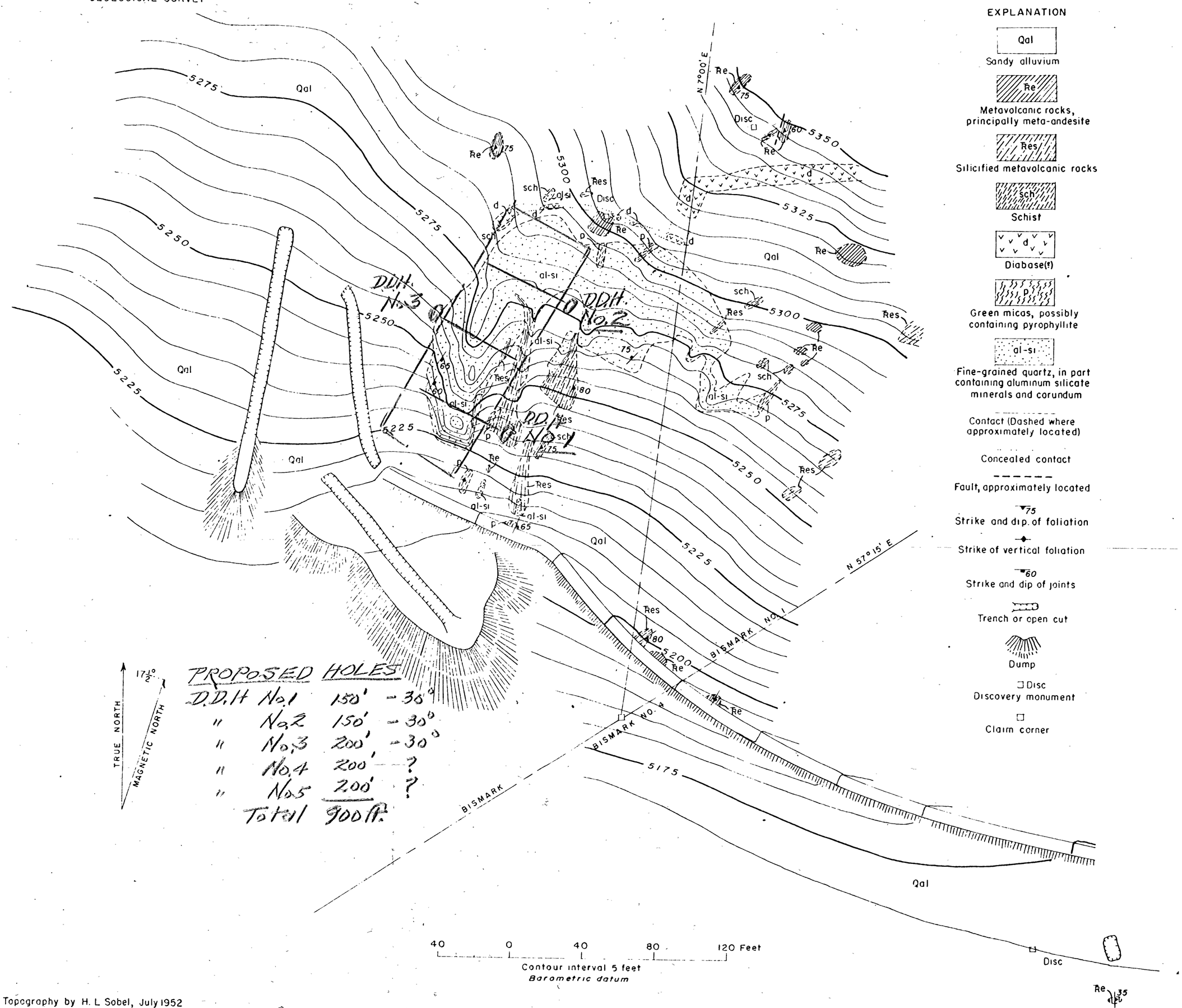
SOUTH LENS OF THE GREEN TALC DEPOSIT, HAWTHORNE, MINERAL COUNTY, NEVADA

40 0 40 80 120 Feet

Contour interval 5 feet
Barometric datum

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

DMEA-2512



Topography by H. L. Sobel, July 1952

Geology by A. J. Bodenlos, July 1952

Figure 2

BISMARK ANALUSITE DEPOSIT, HAWTHORNE, MINERAL COUNTY, NEVADA